

BRITISH COLUMBIA UTILITIES COMMISSION
IN THE MATTER OF THE UTILITIES COMMISSION ACT
R.S.B.C. 1996, CHAPTER 473

And

FortisBC Inc. -
Annual Review for 2019 Delivery Rates

Vancouver, B.C.
October 2nd, 2018

WORKSHOP

BEFORE

R. Mason

Chairperson

D. Enns

Commissioner

APPEARANCES

P. MILLER	Commission Counsel
C. BYSTROM	Counsel for FortisBC Inc.
C.P. WEAVER	Counsel for Commercial Energy Consumers Association of British Columbia (CEC)
D. CRAIG, J. RHODES	Commercial Energy Consumers Association of British Columbia (CEC)
W.J. ANDREWS	Counsel for B.C. Sustainable Energy Association and Sierra Club of B.C. (BCSEA/SCBC)
T. HACKNEY	B.C. Sustainable Energy Association and Sierra Club of B.C. (BCSEA/SCBC)
J. QUAIL S. QUAIL	Counsel for Movement of United Professionals (MoveUP)
L. WORTH	Counsel for British Columbia Old Age Pensioners' Organization, Active Support Against Poverty, Disability Alliance BC, Council of Senior Citizens' Organizations of BC, Together Against Poverty Society and The Tenant Resource and Advisory Centre (BCOAPO)

Fortis Staff:

Diane Roy
Richard Gosselin
Jason Wolfe
Paul Chernikhowsky
James Wong
Darwin Anderson
Chris Leavy
David Bailey
Darren Julyan
John Himmel
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BCUC STAFF:

Sarah Walsh
Tanya Lai
Christelle Irakarama

VANCOUVER, B.C.

October 2nd, 2018

(PROCEEDINGS RESUMED AT 9:00 a.m.)

Good morning, everyone. Welcome to the workshop for the FortisBC Energy Inc. annual review for 2019 rates.

My name is Richard Mason. I'm the Panel Chair, and I'm joined today by my fellow Commissioner Doug Enns.

Commission staff joining us today are Sarah Walsh, Tanya Lai, and Christelle Irakarama and we're represented by our counsel, Paul Miller.

After introductions, FEI will be following the agenda they distributed on September 24th, which is Exhibit B-7 in this proceeding. For each of the agenda items, they'll be making a short presentation, and then responding to questions on that topic. There will also be an open question period at the end of all the topics.

For the question period, I would ask the interveners present themselves in the sequence that Paul Miller has, I believe, distributed to everyone. Commission Staff will ask their questions after all of the interveners are complete.

I would ask, of course, that all interveners stick to the scope of the proceeding in their questions.

1 O-W-S-K-Y for FortisBC.

2 MR. WONG: James Wong, W-O-N-G, FortisBC.

3 MR. ANDERSON: Darwin Anderson, A-N-D-E-R-S-O-N, for
4 FortisBC.

5 MR. HENDERSON: Brett Henderson, H-E-N-D-E-R-S-O-N,
6 Director of Finance and Accounting for FEI.

7 MR. LEAVY: Chris Leavy, L-E-A-V-Y, FortisBC.

8 MR. BAILEY: David Bailey, B-A-I-L-E-Y, FortisBC.

9 MR. JULYAN: Darren Julyan. J-U-L-Y-A-N, FortisBC.

10 MR. HIMMEL: John Himmel, H-I-M-M-E-L, FortisBC.

11 THE CHAIRPERSON: Thank you very much. Do we have Mr.
12 Weafer in the room?

13 MR. WEAFER: Good morning, Chris Weafer, counsel of
14 Commercial Energy Consumers, and I am joined by David
15 Craig, and Janet Rhodes assisting today. And just an
16 introduction, and I anticipate they may or may not
17 come to the podium for questions, just to give you a
18 heads up. Thank you.

19 THE CHAIRPERSON: Sorry, do you mean you may not have
20 questions? Or you may choose to do something other
21 than come to the podium when you have questions?

22 MR. WEAFER: I am just indicating Mr. Craig or Ms. Rhodes
23 may come to the podium as well as be -- in terms of
24 asking questions, if that is acceptable.

25 THE CHAIRPERSON: Absolutely.

26 MR. WEAFER: Thank you.

1 MR. ANDREWS: William Andrews, A-N-D-R-E-W-S,
2 representing the B.C. Sustainable Energy Association
3 and the Sierra Club of B.C. And with me today on the
4 phone is Tom Hackney in Victoria.

5 THE CHAIRPERSON: Thank you.

6 MR. QUAIL: Good morning, Jim Quail appearing for MoveUP,
7 and assisting me is my co-counsel Susanna Quail.

8 THE CHAIRPERSON: Thank you. And is Leigha Worth here?

9 MS. WORTH: Good morning, Mr. Chair, members of the
10 panel. Lea Worth here as counsel for BCOAPO, and I
11 have nothing to add to the agenda this morning, thank
12 you.

13 THE CHAIRPERSON: Great, thank you.

14 MR. MILLER: Mr. Chair, Miller, M-I-L-L-E-R, initial P,
15 counsel to the commission.

16 MS. WALSH: Sarah Walsh, last name W-A-L-S-H, senior
17 regulatory specialist with the BCUC.

18 MS. LAI: Tanya Lai, L-A-I, regulatory analyst with the
19 BCUC.

20 MS. IRAKARAMA: Christelle Irakarama, I-R-A-K-A-R-A-M-A,
21 hearing administrator, BCUC.

22 THE CHAIRPERSON: Great. Thanks, very much everyone.
23 Sorry, Paul, did you have something to add?

24 MR MILLER: No, I was just going to say, Mr. Chair, that
25 the introductions are concluded.

26 THE CHAIRPERSON: Thank you very much. I understand

1 there is some question about whether anyone is
2 actually attending on the phone. Does that cause of
3 problem?

4 MR. ANDREWS: William Andrews here, I've had it explained
5 to me that Mr. Hackney is listening on the web, he is
6 not actually on the phone. And we are in touch on the
7 computer, so that's fine.

8 THE CHAIRPERSON: Perfect, thank you. Great, well thanks
9 very much everybody. With that, I'll hand it over to
10 Ms. Roy from FEI.

11 **PRESENTATION BY MS. ROY:**

12 MS. ROY: Thank you, and good morning. Welcome to the
13 workshop for FortisBC Energy Inc. review of 2019
14 delivery rates. 2019 is the last year of our six-year
15 PBR term, and this is our fifth annual review, because
16 the first year was set through the PBR process.

17 I am going to start by walking through the
18 agenda. The presenters that you can see here are as
19 shown. We will be starting off with the approval
20 sought and the PBR overview. Moving into the revenue
21 requirements and rates, which will include a summary
22 of our evidentiary update, and also the revenue
23 surplus and a treatment of the existing revenue
24 surplus. We'll be talking about growth capital, and
25 that is an area where we are continuing to see a
26 strong trend of customer additions that are affecting

1 Otherwise, without doing that, we would
2 have a rate increase of 1.1 percent in 2019.

3 We have four deferral account requests.
4 The first two are new deferral accounts; one for the
5 demand side management expenditures regulatory
6 proceeding, and the other one for the transmission
7 integrity management capabilities CPCN development
8 costs, and Paul will be speaking to that later on, so
9 we all have an opportunity to ask some questions on
10 that.

11 We have the disposition of two existing
12 regulatory proceeding costs for the long-term resource
13 plan and the rate design application. Then we have
14 the continuation of the existing treatment of the
15 midstream costs of \$3.6 million, and that arises
16 because when the PBR term was initially applied for,
17 it was a five-year term, and the Commission extended
18 it by one year, but in the approvals that were given,
19 there was only five years of this treatment approved.
20 So we need to get that treatment approved for one more
21 year for to continue on with that.

22 And that is really just to make sure that
23 the costs of the Southern Crossing pipeline capacity
24 are recovered from the appropriate customers, and
25 wouldn't be recovered from transport customers. We
26 want them to only be recovered from those that are

1 actually taking gas from us.

2 We have -- for the first time in the last
3 year here we have Z Factors for FEI. They relate to
4 health benefit changes from the B.C. government. One
5 is a cost and one is a savings for us.

6 And finally, as we do every year, we have
7 the two delivery rate riders for biomethane variance
8 account and the RSAM, or revenue stabilization
9 adjustment mechanism account. These two rate riders
10 together are actually reductions this year as compared
11 to 2018. So on an annual bill, even if the delivery
12 rate itself is frozen, there would be a 0.2 percent
13 reduction for a residential customer in 2019, with
14 these riders taken into account.

15 That is all the approvals sought. Any
16 questions on this slide? Okay.

17 Now, as I said, we're setting the rates for
18 the final year of our six-year PBR term, so I'm going
19 to, as I did last year, summarize what we're seeing so
20 far in terms of results. I'm going to start on this
21 slide with the O&M, the operations and maintenance
22 expense. And then I'm going to talk about capital and
23 then I'm going to touch on rates.

24 So what this chart shows you is three
25 different numbers, really. What you can see -- these
26 are all, by the way, on an adjusted for inflation

1 basis, so they're all in 2018 dollars. The blue bars
2 are the total O&M in millions of dollars, so it goes
3 from 289 million in 2013 to 270 million in 2018.

4 The orange line is the total O&M on a per-
5 customer basis, so you can see the decline there. And
6 finally the grey bar is the O&M that's included within
7 the formula. So some of it's flowed through outside
8 of the formula. That's the change in the O&M --
9 formula O&M per customer over the PBR term.

10 So what you can see here is that overall
11 O&M has trended favourably both in total and on a per-
12 customer basis since the outset of the PBR term, and
13 it has been assisted on the per-customer accounts by
14 the high customer growth we've had in recent years.

15 We have had \$43 million in O&M savings
16 shared with customers through the earning sharing
17 mechanism, plus another \$13 million of savings which
18 is embedded in the formula itself. That's to date.

19 Any questions on the O&M slide? Chris?

20 MR. WEAVER: Less a question and just more of process,
21 because I -- and I appreciate what you're doing, sort
22 of breaking for questions after every slide, but as I
23 understood the process was set up is, you'll do your
24 presentation; at the end of your presentation, we'd
25 ask questions on what's been presented. I'm not
26 trying to be difficult, I just want to understand --

1 keeping the process smooth, because otherwise we might
2 want to slow down between slides to allow people to
3 have some questions. And we're good either way.

4 THE CHAIRPERSON: Sure.

5 MR. WEAVER: I guess -- what's --

6 THE CHAIRPERSON: Do you have a preference?

7 MS. ROY: I don't, and I'm happy to take all the
8 questions at the end of my session. It might be more
9 -- simpler for people to get up and ask their
10 questions that way, instead of jumping up every time.
11 Is there another preference, Jim?

12 MR. QUAIL: I would suggest with the exception -- if
13 somebody has a clarification question pertinent to a
14 particular slide, it's probably useful to have that
15 raised --

16 MS. ROY: Yes.

17 MR. QUAIL: -- and the clarification taken there and
18 then.

19 MS. ROY: Okay, great. Thank you. We'll do that then.

20 THE CHAIRPERSON: So I would just ask, then, if anyone
21 does have a point of clarification, just raise your
22 hand to make it known to the presenter and then come
23 up. Thanks.

24 MS. ROY: Okay. Okay, so I'm moving on now to the
25 formula capital expenditures, and this is just a
26 reproduction of our updated Table 1-4 on the

1 application itself.

2 **Proceeding Time 9:13 a.m. T4**

3 What you can see here, this is comparing
4 the formula to the actual expenditures for each of the
5 years in the PBR term so far. And what you can see in
6 the earlier years '14, '15, '16, we were at -- below
7 or close to the capital deadband, which is 10 percent.
8 And what you're seeing in the latter two years, 2017
9 and 2018, is that we're above the capital deadband in
10 both Growth and Other, which is sustainment and other
11 capital.

12 And the 2018 figures you're seeing here are
13 higher than what we had thought they would be last
14 year when we filed our application. And there's two
15 main causes of that and they're both related to
16 growth. One is fleet and equipment for our operations
17 crews and the other one is additional costs for the
18 Whistler pipeline IP project. And we'll have people
19 available to talk about those later if you'd like as
20 well.

21 And I just thought on the capital slide,
22 we've talked about the capital deadband for the last
23 two years, so I didn't prepare the same slides that I
24 prepared in the last two years. I think everybody
25 understands how the capital deadband works. But one
26 thing I would like to touch on is that we did have a

1 directive that we've complied with for the last two or
2 three years which is asking us to provide detail on
3 variances from the formula for capital expenditures,
4 and then we've had a number of IRs asking us to
5 provide specific projects that are causing us to be
6 over the capital formula or maybe they're -- are they
7 within the deadband or are they over the deadband.

8 So we've done our best to respond to those
9 and I just wanted to clarify why the -- you know, why
10 we have such difficulty responding to those questions.
11 And it's really about how the PBR is set. When you
12 look at the columns we're comparing to, those are
13 really just a 2013 spending allowance that is then
14 being escalated by a formula amount. So what we don't
15 have is a list of projects that ties to that number
16 that we can then compare our actual expenditures to to
17 try to figure out which ones are the ones that are
18 causing us to be over the formula.

19 And so we have done our best to answer
20 those questions, but you know, under the formula
21 approach it was envisioned that we would use the
22 flexibility afforded by the PBR to move capital
23 between years or reprioritise projects throughout the
24 terms and that is in fact what has happened. And
25 we've had the same issues that we discuss in the
26 Appendix C-4 and also below Table 1-4 in the

1 application where we talk about some of the challenges
2 we've had. And for growth capital a lot of that has
3 to do with the level of growth that we've seen and
4 also some issues regarding a change in the mix of the
5 additions that we're having for a growth capital.

6 And then for sustainment we had an issue
7 with how the base was set for the term and also we've
8 had, as I discussed just now, that there's some growth
9 related capital projects that are also driving
10 sustainment capital level up. And Paul will be able
11 to talk about some of those kind of things when he's
12 up.

13 **Proceeding Time 9:16 a.m. T05**

14 And what happens is the further we get into
15 the PBR term, the more these things become magnified,
16 because there's things that are occurring that weren't
17 considered when the base was set for the PBR term.
18 And so that's one of the reasons you're seeing
19 certainly growth -- the growth capital is related to
20 more to growth of the system itself and our customer
21 additions. But on the other side, some of those
22 things are starting to arise and are becoming more and
23 more difficult to manage within the formula capital,
24 in addition to the fact that we had an additional year
25 added onto the PBR term that we didn't have, or we
26 hadn't envisioned when we set it out.

1 Now, the deadband was set to accommodate
2 year to year variances in growth -- or in all capital,
3 rather. And I still think that's a good mechanism.
4 It does -- it is set to consider the normal level of
5 fluctuation in capital, and I think it's accomplished
6 its goal. And it's worked effectively certainly in
7 the earlier years of the PBR term.

8 But all of these things I've talked about
9 today, the reason I mention them is really these are
10 all the things that we're going to be addressing in
11 the next PBR term. And I know we've had a lot of
12 questions about what we're planning, what it's going
13 to look like, and we are going to be meeting with
14 everybody to discuss that over the next month or so, I
15 believe it is.

16 Okay. So I'm going to move on to the final
17 item here, which is the rates. And on this slide
18 here, what you see is CPI/AWE actuals for the year
19 shown, and then the delivery rate increases. In the
20 earlier years we had increases, you know, generally in
21 line with inflation. And then recently we have had no
22 rate increases, although I will note that we did have
23 a revenue deficiency in 2019 which would have
24 otherwise resulted in a 1.1 percent rate increase.

25 And overall over the PBR term, think about
26 the rates, what has allowed us to accomplish this.

1 One is the O&M savings that we've able to realize, not
2 only within the formula, the productivity improvement
3 factor in the formula, but also the O&M savings about
4 the formula. We've had lower interest rates. We
5 certainly had strong growth in customer demand, which
6 has helped to offset any rate increases that otherwise
7 would have occurred from things like adding in some
8 large capital projects. We've added in the Coastal
9 transmission system project, Tilbury expansion, and
10 also in 2019 we see the first tranche of the -- I'm
11 going to call it the Coquitlam IP product. And it's
12 the part that's related to the Vancouver and Burnaby
13 segments of that project. So they're both coming into
14 rate base. That part's coming into rates in 2019.

15 So overall when you look at just, you know,
16 these three slides by themselves, and considering SQIs
17 as well, I would say we've had good results for
18 customers. And I think -- I feel like these annual
19 reviews have been a fairly efficient way to review our
20 progress as we go through the term of the PBR. And I
21 think embedded in our culture now is kind of more of a
22 long-term planning focus and the sort of focus that
23 really the PBR was set up to incent in the utility.

24 So I'll just close with this slide on major
25 initiatives. This is from Appendix C-2. And this was
26 also from a Commission directive that we provide this

1 detail each year during the annual review. I won't
2 walk through these, because the first six of them were
3 all not new this year. They were all ones that we've
4 discussed in previous years. The two new ones this
5 year are gas workforce management and common
6 trenching.

7 And I will pause here for questions. Next
8 person up will be Rick Gosselin who will be talking
9 about the evidentiary update, revenue deficiency, and
10 the treatment of the revenue surplus.

11 **Proceeding Time 9:20 a.m. T6**

12 MR. WEAVER: Thanks, Diane. Just a couple of high level
13 questions for the introduction. This is the last year
14 of this term of PBR, and I know there was a number of
15 questions around what is next, and the company has
16 stepped back from answering those saying that's still
17 in the works. But can you give us -- you just made a
18 comment that the company is now focused on long-term
19 planning, and we're now a year away from this being
20 over. Can you give us any high level comment on what
21 do you see for the next PBR term?

22 Because I think the evidence and responses,
23 the low-hanging fruit is gone, and there is not much
24 opportunity. So, can you just give a little bit of an
25 overview of what we may see a year from now in terms
26 of the company's view, recognizing it's a work in

1 progress and it may change. But, we don't intend to
2 have a lot of questions today, because this is the
3 last year of the five-year term, and we are very
4 focused on what is next, and this very significant
5 CPCN we just heard about is going to affect our view
6 on the PBR as well.

7 So, can you just give us a little bit of a
8 hint as to what you see for the next PBR term?

9 MS. ROY: Sure, I could respond to the high level. And I
10 would note that we do have meetings set up with
11 everybody over the next two weeks or a month, James?

12 MR. WONG: Mostly in October.

13 MR. WEAFFER: That is the benchmark meeting?

14 MS. ROY: No, the benchmarking is a separate discussion.
15 So this is just to walk each one of you through what
16 we're thinking about for the next PBR, and we would be
17 happy to address in more detail then, because as you
18 said, we do have a fairly strong view of what we're
19 going to be filing at this point.

20 MR. WEAFFER: Okay.

21 MS. ROY: I would tell you it's not that different than
22 what we have now. The same kind of general structure,
23 where you have a number of items. Most items being
24 forecast on a cost of service basis annually. We
25 continue to have O&M and capital, or at least the bulk
26 of it set by formula. Some changes, we'll have to be

1 re-basing O&M and capital, and we also will be
2 adjusting some of the formulas for growth capital.
3 And you know, the more minor things I won't discuss
4 here, but that is the basic framework for it.

5 MR. WEAVER: So at a high level, just on a basic point,
6 and I'm not going to go far on this, but how do we
7 understand that we've received the benefits of this
8 PBR period if we are now re-basing for the next
9 period?

10 MS. ROY: Well, I would say, as I just showed you when
11 we're talking about O&M in particular, the O&M is
12 lower than it was at the beginning of the last PBR
13 term. So, I think what we're seeing there is some
14 imbedded savings that are not going to be eroding when
15 we go into the next PBR term. There is going to be
16 some considerations for different areas we need to
17 focus on with this longer term view that we're
18 talking. And so you can't expect to see a starting
19 base and then some adjustments to it. But I still
20 think you're not going to be seeing -- you definitely
21 won't be seeing an erosion of PBR benefits, if that is
22 the concern. Those savings are embedded.

23 And further to that, when we talk about the
24 numbers, there is -- the PBR is set up so that we're
25 achieving the productivity improvement factor, which
26 we have. On top of that we've achieved additional

1 savings. But I think a PBR is a success just by
2 achieving a productivity factor in the first place.
3 So we have gone over and above that, and I think we
4 can continue to at least see us achieve a productivity
5 improvement factor in the next PBR term, at a minimum.

6 MR. WEAFFER: So, last question on it. So, are you re-
7 basing O&M? Is that the proposal?

8 MS. ROY: O&M and capital.

9 MR. WEAFFER: So the savings, as we're looking at the
10 efficiencies obtained and where we're at, why would
11 that be re-based? I mean, that is the benefit of this
12 five year term.

13 MS. ROY: Re-basing, maybe it means something different
14 to you. To me it means resetting the cost to reflect
15 the actual experience.

16 MR. WEAFFER: We can deal with that -- I don't want to
17 probe that any further. So, again, at a high level,
18 and we've seen the O&M savings, and then we've seen
19 the capital formula not working, and we've seen the
20 sort of hockey stick impact on capital the last couple
21 of years in particular and you focused on growth
22 capital, but the last couple of years it's been other
23 capital where we're seeing the variance from formula.
24 And is that partly sustainment capital? Is that in
25 that other --

26

Proceeding Time 9:13 a.m. T7

1 MS. ROY: Yeah, the two big areas -- and Paul actually I
2 think has a slide on this, but the two big areas where
3 we're seeing variances are in the in-line inspection
4 area. Is that right, Paul? Yeah. Inline inspections
5 and also some of the items that we have classified as
6 sustainment capital but they're more of the system
7 improvement variety. They're growth related, so that
8 they're in sustainment capital, but because they don't
9 grow linearly with additions to customers, but at some
10 point you will have a large project that comes into
11 play, so something like the Whistler IP pipeline would
12 be an example of that.

13 MR. WEAFFER: And this is something that, not being an
14 accountant I wrestle with in the terms -- and just
15 trying to get an understanding at a high-level the
16 sort of sustainment capital area where we're seeing
17 growth and the crossover between O&M and sustainment
18 capital. Because when I hear sustainment capital
19 described I oftentimes think it's actually the normal
20 O&M and making sure the system is safe and reliable
21 and the integrity is there.

22 And, again, when we see this capital hockey
23 stick move the last -- in the graph the last couple of
24 years and now we -- and we'll talk about this large
25 CPCN, but in response to one or two of the IRs even
26 there there's a question as to what's sustainment

1 capital, what's O&M. And as you know CEC's always had
2 a challenge with PBR.

3 But that's one of the areas we'd like to
4 get a clear and better understanding as to what is
5 moving to susta- -- particularly if there's changes to
6 the term moving to sustainment capital versus what's
7 an O&M saving over here and a sustainment capital
8 expense over here. Customers generally like capital
9 that's improving the system, but if the company is
10 getting an earning sharing benefit by shifting -- so
11 how does the company manage that and ensure that a
12 sustainment capital investment is not an O&M
13 reduction?

14 MS. ROY: I'm probably not the best person to answer that
15 question. I might ask you to save that for Paul when
16 he comes up.

17 MR. WEAFFER: That's just one of the themes that we're --

18 MS. ROY: There are --

19 MR. WEAFFER: We have trouble over it every year and now
20 we've got a very significant CPCN, a billion dollar
21 CPCN that arguably has -- well, we're deal with that
22 with the panel.

23 MS. ROY: Yeah.

24 MR. WEAFFER: But it's the high-level theme we have a
25 concern about, so --

26 MS. ROY: Pardon me?

1 MR. WEAFFER: It's the high-level concern that we have in
2 terms of the workings of PBR, and particularly where
3 we're seeing the capital not working and O&M
4 apparently working, so.

5 MS. ROY: Yeah, and I do think the next PBR application,
6 which is coming very soon, will be a good time to, you
7 know, embed the learnings we have from this one and
8 explore anything, any questions you have like that
9 further.

10 MR. WEAFFER: And so last on that, when do you anticipate
11 filing that?

12 MS. ROY: It should be very early next years.

13 MR. WEAFFER: Okay. Thank you. I'll just see if David or
14 Janet have any questions.

15 David, David Craig.

16 MR. CRAIG: Panel, David Craig for the CEC. I just
17 wanted to see if you could give me a little more
18 background on the 6.319 million coming from the
19 revenue surplus deferral account. Can you give me an
20 idea as to what the balance remaining is in that
21 account?

22 MS. ROY: I could, but actually Rick is going to be up
23 next and that's one of his topics, so I'll leave it to
24 him to do a better job than I would.

25 MR. CRAIG: Perfect. Then I'll hear it from him.

26 MS. ROY: Okay. Thank you.

1 MR. CRAIG: Thank you.

2 MS. RHODES: I just wanted to talk about the calculation
3 of the capital deadband. So in CEC 1.3 we pointed out
4 that you can't add 10 percent of one number and 20
5 percent of another number and come up with 30 percent
6 of any number. So we're just going to go on the
7 record that that calculation isn't rational. We
8 realize it's part of the part of the PBR decision, but
9 we're just going on record that it doesn't make any
10 sense.

11 MS. ROY: Yeah. It was not something we proposed. The
12 two year deadband is not something we proposed, and so
13 it's not something we would propose to continue, and
14 so hopefully it will not be a problem going forward.

15 MR. RHODES: It just has to be an average or some other
16 calculation.

17 MS. ROY: Yeah, sure.

18 MS. RHODES: Okay, thank you.

19 MR. ANDREWS: I just wanted to mention that Mr. Hackney
20 and I had the benefit of Fortis's presentation to do
21 with the upcoming PBR application yesterday and it was
22 quite detailed and had a lot of information. So for
23 those interveners that haven't received it, there will
24 be more information coming I presume if they
25 participate in that.

26 MS. ROY: Thank you, Bill.

1 **Proceeding Time 9:29 a.m. T08**

2 MR. QUAIL: First of all I'd just like to make a comment
3 in response to the words that prefaced my friend Mr.
4 Weafer's questions, which appear to assume that there
5 will be another PBR term after this one. And first of
6 all for the record I want to state that we don't
7 assume that there will be another PBR as the regime
8 that follows this one.

9 Second, a question. I believe you
10 understand that the Commission will need to make a
11 determination whether or not another PBR term is the
12 appropriate regime to be regulated under.

13 MS. ROY: Of course. We will bring forward a PBR
14 application and the Commission will determine if they
15 approve it.

16 MR. QUAIL: But not only that, but whether PBR --

17 MS. ROY: Certainly.

18 MR. QUAIL: -- generically is the appropriate strategy.

19 MS. ROY: Certainly.

20 MR. QUAIL: And we'll need to determine whether it is
21 working, and in what respect it's not.

22 MS. ROY: Mm-hmm.

23 MR. QUAIL: And whether it is a superior regime in terms
24 of the duties that you've got under the *Utilities*
25 *Commission Act*, and the traditional costs of service
26 regime. You understand that?

1 MS. ROY: Of course I understand that, Jim.

2 MR. QUAIL: Okay. Because the discussion appears to --
3 point of departure seems to be, we're into another PBR
4 and we're -- the only question really is how that is
5 going to be designed. I just wanted to be sure it's
6 clear in everybody's mind, the question of whether or
7 not it's PBR is very much an open question, legally
8 and also for practical purposes.

9 Can you identify any concrete benefit that
10 ratepayers have obtained as a result of PBR? That is,
11 something that FEI has done for them in the last five
12 years, that it would not have done otherwise?
13 Concretely.

14 MS. ROY: We've had a number of IRs on that same
15 question, Jim, and I think we've answered it. The
16 answer is that it's very difficult to compare to a
17 hypothetical situation because we don't know what the
18 cost of service regime would have looked like during
19 those PBR terms.

20 What we do know is what the results of the
21 current PBR regime have been, and they've been
22 positive. That's really all I can say on that. And I
23 can speak to the culture of the company, and I can
24 speak to the regulatory efficiency, but I cannot point
25 to one item in particular.

26 MR. QUAIL: In other words, the answer to the question is

1 "no".

2 MS. ROY: The answer is, other than those things which
3 I've already pointed to, which are rates and O&M and
4 service quality indicators, and I can also do a
5 comparison of the regulatory costs, the answer would
6 be no other than those things.

7 MR. QUAIL: Well, for example, you discussed O&M with my
8 friend Mr. Weafer. When you say that O&M is down,
9 that is per customer.

10 MS. ROY: And in total, I believe, too. I'd have to go
11 back to that slide. I'm pretty sure it was in total
12 as well.

13 Yes. It is down in total from \$289 million
14 to \$270 million, and that includes the stuff outside
15 the formula.

16 MR. QUAIL: But the reduction per customer, according to
17 your own comments, are largely a function of customer
18 growth.

19 MS. ROY: Well, whether that's true or not, the total O&M
20 is also down. So I don't understand what the
21 relevance of that question would be.

22 MR. QUAIL: Well, it's claimed on behalf of Fortis and
23 other utilities who enjoy being under a looser
24 regulatory leave -- or leash, rather, that PBR is a
25 strategy that unleashes all kinds of pent-up
26 possibilities in terms of achieving efficiencies and

1 benefit for ratepayers. Right? Isn't that the
2 essential argument made for PBR?

3 MS. ROY: There's a number of arguments, that is
4 definitely one of them.

5 MR. QUAIL: And that, for example, having the earnings
6 sharing provides a financial incentive to the utility
7 to perform even harder to try to achieve efficiencies
8 for ratepayers.

9 MS. ROY: I would actually disagree with that. Most PBR
10 setups do not have an earnings sharing at all, which
11 means the utility retains 100 percent of any savings.
12 So I would say the earnings sharing reduces the
13 incentive for the utility to find those things.

14 MR. QUAIL: And the earnings shavings -- I won't go to
15 the IRs, but I'll put it to you that what's actually
16 been achieved and shared with customers would perhaps
17 buy a half a cup of coffee a year per customer. Isn't
18 that correct?

19 MS. ROY: I don't think that is the measure of the
20 success of the PBR term.

21 MR. QUAIL: But isn't that --

22 MS. ROY: The earnings sharing by itself, as I've said,
23 is not the measure of it. And we've put out a number
24 of other measures. And Jim, you can disagree with me,
25 but that is my view.

26 **Proceeding Time 9:34 a.m. T9**

1 MR. QUAIL: Do you intend in your application to
2 incorporate a similar earnings sharing mechanism?

3 MS. ROY: If we did not, we would then be retaining 100
4 percent of the savings, so it wouldn't seem fair to
5 customers to do so. So no, we would plan on providing
6 a similar earnings sharing mechanism.

7 MR. QUAIL: Retaining the savings --

8 THE CHAIRPERSON: Mr. Quail, I wonder if I could ask you
9 to redirect your question more to the 2019 rates
10 application? Just keeping focused a bit, please.

11 MR. QUAIL: Well, with all respect, Mr. Chairman, in my
12 submission the fundamental reason for these annual
13 checkups through the annual reviews in the context of
14 the looser regulation is to check whether or not PBR
15 is working. Is this working or not? Is it achieving?
16 It is claimed that it achieves results that would not
17 be otherwise achievable. Loosen the leash and there
18 will be things achieved that would not be otherwise.
19 That, in my submission, is the essence of the argument
20 for PBR, and in my submission it is perfectly within
21 bounds, in fact as the core of what the annual review
22 is about, to look at whether or not in fact the PBR is
23 delivering anything tangible. And we've heard nothing
24 tangible.

25 I'll leave it at that, because I know I'll
26 have an opportunity to present argument, but I'm

1 saying they are unable to point to anything tangible
2 that they have provided to --

3 MS. ROY: I have provided a number of tangible things.

4 MR. QUAIL: -- anything tangible in terms of something of
5 value provided to ratepayers that you say would not
6 have been there under --

7 MS. ROY: I think we've provided reduced rates, or no
8 rate increases, and what else could be of more value
9 to our ratepayers?

10 MR. QUAIL: You have the same obligation --

11 MS. ROY: But anyway, this is argument as you said, so
12 let's leave this for argument, could we?

13 MR. QUAIL: You recognize you have the same obligations
14 no matter what regime we're on to achieve whatever
15 efficiencies you can for ratepayers that deliver value
16 and don't compromise reliability and other
17 obligations?

18 MS. ROY: That's true, and we do that.

19 MR. QUAIL: Okay. And I hear you saying, just to be
20 clear, so we get into argument I know what your
21 position is, that the point of the earnings sharing
22 received by the company is not about an incentive. It
23 is about in effect giving back to customers what
24 otherwise you would retain under the PBR regime.

25 MS. ROY: That is how most PBRs are structured.

26 MR. QUAIL: That's not my question. Your position is

1 that the purpose of --

2 MS. ROY: The purpose of the earnings sharing is to align
3 the interests of the company and customers, so that
4 we're both working towards a similar goal.

5 MR. BYSTROM: Jim. Jim.

6 MR. QUAIL: That sounds to me like the same argument that
7 a financial incentive that is shared, incents you to
8 behave in a particular way and you've responded to our
9 questions, that the incentives have had no impact on
10 the way that you have operated.

11 MS. ROY: Okay, I would just like to just leave this for
12 argument or for next year's PBR application if I
13 could.

14 MR. BYSTROM: Jim, this is Chris Bystrom, counsel
15 FortisBC, and I think this is well beyond what we need
16 here today. It has devolved into argument. There is
17 a time for argument, and I think it is just time to
18 move on. I'd ask the Commission to assist us in that
19 matter if they would, please.

20 MR. QUAIL: Well, I say that we're entitled to know what
21 your position is on these questions before we respond
22 in argument, but I think we've covered the ground that
23 I need to present the arguments that I intend to make.

24 MR. BYSTROM: Yeah, and I think you did many years ago.
25 We went through the PBR proceeding in detail and all
26 these positions have been well known to everyone for

1 many years.

2 MR. QUAIL: The difference is that was perspective. We
3 are now looking at retrospectively with five years of
4 experience, and the most important question before the
5 Commission now is how is this working? How has it
6 performed, is the most important question. And I will
7 be addressing that, and it is fundamentally different
8 than it was, with all respect, when this was a
9 hypothetical perspective process. When the PBR was
10 originally designed. I will save the rest for later.

11 THE CHAIRPERSON: Thanks, Mr. Quail.

12 Ms. Worth?

13 MR. MILLER: Ms. Worth has no questions.

14 THE CHAIRPERSON: Thank you. Back to you? Do we have
15 staff questions, please?

16 **Proceeding Time 9:39 a.m. T10**

17 MS. LAI: This is Tanya Lai, Commission Staff. I just
18 wanted to clarify a few items regarding the gas
19 workforce management initiative. In the response to
20 BCUC IR 5.3 FEI states that the O&M expenditures for
21 the gas workforce management initiative have increased
22 since the application was filed due to unaccounted for
23 training expenses being identified.

24 The original O&M cost provided in the
25 application was \$0.7 million and that has now
26 increased to \$1.12 million, which is a difference of

1 \$420,000.

2 Could you please clarify if the entire
3 increase is due to training expenses?

4 MS. ROY: Sure, I'll ask John Himmel to respond to that
5 question.

6 MR. HIMMEL: Yes, the entire increase is a result of
7 training costs, both logistics and training material
8 preparation.

9 MS. LAI: Could you please explain why there's such a
10 large increase in the training costs and if possible,
11 in an undertaking provide a breakdown of these costs?

12 MR. HIMMEL: The reason for the increase is that the
13 development of the materials, as we explored the
14 requirements of gas workforce management is that we
15 realized that the extent of the training was going to
16 go far beyond what we initially spoke in the project,
17 and so we had to do an additional training, additional
18 materials to develop for the program. And yes, we can
19 provide a further breakdown of the (inaudible).

20 MS. LAI: Great, thank you.

21 MS. WALSH: Sarah Walsh with the BCUC. I just have a
22 series of questions about the operating and
23 maintenance expense savings, and I guess tied to the
24 last slide of the presentation related to the major
25 initiatives.

26 I'm wondering if you could sort of

1 specifically discuss with regard to the initiatives
2 that are on the slide, if any of these have been for
3 the purpose of mitigating the cost pressures that are
4 resulting from the growth in FEI's asset base, and if
5 so, how?

6 MS. ROY: Sorry, could you repeat the question?

7 MS. WALSH: Sure. When we are looking at the cost
8 pressures that FEI is experiencing, and I think
9 especially in response to BCUC IR 1.1 there is quite a
10 detailed explanation. I was just wondering if you
11 could tie that to some of the major initiatives that
12 have developed over the PBR, for example like Project
13 Blue Pencil, regionalization initiative, and just
14 explain if any of those have assisted in mitigating
15 some of the cost pressures or if they had been in
16 response to the cost pressures that FEI's
17 experiencing.

18 MS. ROY: James might have to add more. I think that --
19 well, James, I'll let you answer first.

20 MR. WONG: You want me to answer first?

21 MS. ROY: Yeah, sure.

22 MR. WONG: For the discussion I'll refer you to the BCUC
23 IR 1.1. I think that what we tried to do is provide a
24 kind of general overview of how formula O&M savings
25 are calculated and how cost pressures and productivity
26 improvement factors kind of all interlinked to one

1 another.

2 So specifically in response to your
3 question, I think it contributes to it, but it's hard
4 to say exactly whether it helped contribute to the
5 productivity improvement saving component, or whether
6 it helped formulaic O&M savings. So there's kind of
7 a combination of things.

8 MS. WALSH: Okay, thank you. And then just continuing
9 on with that IR response, I just wanted to clarify,
10 there's a portion, I'm going to say at the bottom of
11 page 3 in BCUC IR 1.1 where you discuss some of the
12 other cost pressures that FEI is managing.

13 **Proceeding Time 9:43 a.m. T11**

14 And I just wanted to clarify for example
15 when FEI is talking about vehicle fuel and insurance
16 costs, if in particular the insurance cost pressures
17 that you're describing would impact O&M inside or
18 outside the formula?

19 MR. WONG: Both. So, just for clarification, the
20 definition of "inside" and "outside" of O&M. Outside
21 of O&M categories of work included are capital work,
22 deferral work. And of course inside of O&M is the PBR
23 O&M. There could be both amounts of O&M, so --
24 vehicle insurance costs run through our accounting in
25 terms of affecting O&M and capital. So that's the
26 answers, yes.

1 MS. ROY: So, sorry. I think, James, the question is, we
2 do have insurance that is flowed outside of the
3 formula.

4 MR. WONG: Yeah. Yes.

5 MS. ROY: And I think her question is, is the vehicle
6 insurance included in amounts flowed outside the
7 formula or within the formula. And I don't know the
8 answer to that myself. And we could do an undertaking
9 if we don't know the answer to that.

10 MR. WONG: Just so I understand, the question is that
11 vehicle insurance costs inside of the formula for O&M,
12 or outside of the formula. Is that the question?

13 MS. WALSH: Right. So I guess -- so the purpose, if you
14 go back to BCUC IR 1.1, like the question itself was
15 asking questions around FEI's new cost pressures it's
16 experiencing with respect to O&M inside the formula.

17 And it would appear that perhaps some of
18 the response, especially in that bottom paragraph on
19 page 3, are talking about things like municipal fees,
20 vehicle and insurance costs, and so the question is
21 just, are those -- is that response related
22 specifically to costs inside the formula or would some
23 of those costs be related to the flow-through items
24 outside formulaic O&M?

25 MR. WONG: Specifically in the response, it refers to the
26 costs inside the formula.

1 MS. WALSH: Okay. Thank you.

2 MR. WONG: Sorry about that.

3 MS. WALSH: Thank you.

4 THE CHAIRPERSON: Any other questions?

5 MR. MILLER: That concludes Staff questions.

6 THE CHAIRPERSON: Thanks, Paul. Back over to you, Mr.
7 Gosselin.

8 MR. GOSELIN: Good morning. It's Richard Gosselin.

9 I'll start my presentation by discussing
10 the changes to FEI's application filed with our
11 evidentiary update last week on September 26.

12 First as described in the application,
13 Section 1.5, FEI plans to amortize a portion of the
14 2017/2018 revenue surplus deferral account, which will
15 enable FEI to hold rates -- hold delivery rates in
16 2019 at the same levels as 2018 approved, RDA approved
17 levels.

18 The evidentiary update last week increased
19 the deficiency by about \$4.4 million. That's up from
20 the \$3 million that was in the application. FEI, as I
21 said, proposes to hold our 2019 rates at the approved
22 levels by amortizing some more of the 2017/18 revenue
23 surplus deferral account.

24 So item 1 on the table that you see here is
25 the RDA or rate design application approved rates.

26 On July 20th, I think it was, or

1 determined, we were to use all the way up to June.
2 So, what we do is we use a placeholder for June when
3 we file our application, and then as Stats Canada
4 produces the June AWE, we include it in the
5 evidentiary update.

6 So, we've done the same thing again this
7 year in the evidentiary update, and included the June
8 AWE. And that causes a slight deficiency of \$12,000
9 in the evidentiary update.

10 The next item is our Kelowna lease in/lease
11 out, or LILO termination. FEI has about five lease
12 arrangements of this type with municipalities
13 throughout the interior of B.C. Within these
14 agreements there is a provision to terminate the
15 capital lease at year 17 of a 35 year term. And so
16 FEI has made the decision to terminate the Kelowna
17 LILO capital lease at year 17 this year. And due to
18 the disparity in the embedded cost of financing and
19 the expected marginal rate of refinancing, terminating
20 the LILO capital lease and refinancing at market rates
21 provides a slight benefit to our customers. In 2019,
22 it provides about a \$600,000 reduction in cost of
23 service, or surplus, and over the remaining 18 years
24 of that lease it is expected to provide approximately
25 \$5.9 million benefit for our customers.

26 The next item on the list is our 2018 CapEx

1 projection. So, FEI increased its 2018 projected
2 capital expenditures by \$7.2 million, based on a
3 revised cost assessment for the Whistler IP extension
4 as described in response to BCUC IR 1.8.11.

5 This project was initially planned to be
6 constructed in phases over the course of three years,
7 somewhere between the years of 2015 to 2020. Due to
8 the higher anticipated growth in core, and the
9 conversion of Whistler's bus fleet to CNG, the
10 forecast demand has accelerated the project so that it
11 needs to be undertaken in 2018. So we increased the
12 projected capital in 2018 for that amount. That
13 causes about a \$700,000 increase in the deficiency in
14 2019.

15 The next item is described as prescribed
16 undertaking 3.6. Just shortly after filling our
17 August 3rd application, FEI found an omission with
18 respect to the spending related to prescribed
19 undertaking 3.6. This section of the greenhouse gas
20 reduction regulation, or some people refer to it as
21 the GGRR, allows for expenditures for feasibility
22 studies and development costs related to shoreside
23 assets.

24 **Proceeding Time 9:52 a.m. T13**

25 FEI has updated the 2018 projected spending
26 to 4.7 million and a further 0.3 million spending in

1 2019. These amounts are placed into FEI's GRR
2 incentives account and amortized over ten years
3 according to the determination by the Commission.
4 That item there added about \$670,000 to the deficiency
5 in 2019.

6 And then finally on the table we have our
7 flow-through deferral account update. Items 1, 3, 4
8 and 5 all have in impact on our 2018 flow-through
9 deferral account calculation, and consequent
10 amortization of the flow-through in 2019 revenue
11 requirement.

12 Evidentiary update last week -- filed last
13 week rather, provides a reconciliation as Table 1 in
14 the application but I'll summarize it here. The RDA
15 approved rates, as I discussed earlier in item 1, will
16 actually be implemented on November 1st, 2018. Again,
17 when we apply these rates to 2018 forecasted customers
18 and delivery revenue -- sorry, delivery demand, we see
19 about a \$1.1 million shortfall in 2018.

20 So again, we have rates in place in 2018
21 now. When we take the approved rates from the RDA and
22 apply them starting November 1st, we see a small
23 shortfall at the end of 2018 based on that.

24 The Kelowna LIL0 termination provides about
25 a \$92,000 surplus in 2018 and the rest of the items
26 amount to about \$100,000 in deficiency.

1 So all of these affect the 2018 flow-
2 through deferral account calculation and reduce the
3 amount returned to customers in 2019 through
4 amortization by about \$1.1 million or \$1.6 million
5 before tax.

6 All of these items in the table total to
7 about \$4.4 million which FEI has proposed to pull from
8 its 2017/2018 revenue surplus deferral account to hold
9 our 2019 rates flat -- or rather at 2018 RDA approved
10 levels.

11 My next slide is an update to the waterfall
12 graph that we include in section 1.5 of the
13 application. So as a reminder, this graph show the
14 components that are driving the differences between
15 our 2018 approved revenue requirement and the 2019
16 revenue requirement as filed in our evidentiary
17 update. And all these items are explained on page 16
18 and 17 of the application.

19 Column 1 is demand forecast. So we have a
20 demand pick-up in 2019 over 2018 which is
21 predominantly from industrial demand increase of about
22 6.3 PJs so that's contributing as a surplus into the
23 deficient -- into the total net costs in 2019.

24 Column 2 is other revenue, and this is down
25 slightly from basically the RDA decision as discussed
26 earlier. A couple of our fees are a little bit less,

1 or charges are a little bit less and that contributes
2 to a small deficiency in 2019.

3 Column 3, we have an O&M increase. Most of
4 it is from formula, and a little bit of a decrease in
5 our forecast O&M in 2019.

6 Column 4 and 5, depreciation and
7 amortization and earned return. The increases to
8 these two are predominantly from the first phase of
9 LMI PSU or the Coquitlam IP line coming into service
10 in 2019. And they are partially offset by a decrease
11 in deferral amortization.

12 Column 6 is taxes of about \$900,000. Taxes
13 are complicated but they are the effect of all the
14 other things being piled on top of the changes from
15 2018. So things like rate base and revenues, et
16 cetera.

17 Column 7 is the 2018 surplus. So this was
18 the 2018 cost item to bring the revenue surplus to
19 zero last year. And in 2019 that cost item no longer
20 exists. Therefore, when compared to '18 it shows a
21 reduction in '19.

22 **Proceeding Time 9:57 a.m. T14**

23 And finally column 8 is the 2017/2018
24 amortization of the revenue surplus deferral account.
25 Before amortization of this deferral account there's
26 about a \$6 million deficiency as described earlier.

1 FEI proposes to amortize a portion of our revenue
2 surplus, the 2017/'18 revenue surplus deferral account
3 to hold our delivery rates flat with 2018 RDA
4 approved. So that's why you see the item there that
5 brings the cost down to the level of zero.

6 So that summarizes the items that are
7 causing the changes from our 2018 approved to our 2019
8 proposed.

9 Chris?

10 MR. WEAFFER: Could you just spend a little more time on
11 that 2018 surplus 5 million? Could you just describe
12 that in a little more detail? So was that an over
13 collection from ratepayers?

14 MR. GOSSELIN: Yes, it was in 2018. And that amount
15 actually went into our revenue surplus deferral
16 account in 2018. So in 2018 we were a little -- our
17 costs were a little less than the revenue that
18 existing rates would've provided. So last year we
19 proposed to hold rates flat and recognizing that we
20 were going to over collect. And so what we did was we
21 take the over collection and put it into this
22 2017/2018 revenue surplus deferral account to give
23 back to our customers at a later date.

24 MR. WEAFFER: And maybe this is in an IR response and I
25 can be directed to them, can you just walk me through
26 how -- so that could happen again this year in terms

1 of we come out of the PBR with a forecast and we end
2 up charging more than your forecast? So flush it out
3 a little bit more for me if you don't mind.

4 MR. GOSSELIN: Yeah, it's kind of a complicated thing
5 when you look at -- if you looked at the earn return
6 statement or the utility income and earn return
7 statement in 2018 you'll see all our cost items like
8 O&M, depreciation, insurance, taxes and such. And
9 then you also see this item in there called "2017/2018
10 revenue surplus item." And it shows up as a cost item
11 on the 2018 utility income statement as a forecast for
12 upcoming rates, and this was last year.

13 That cost item didn't actually exist, but
14 we put it there to basically plug the expenses so they
15 match the revenues, recognizing that expense is not a
16 real expense, so we collect the dollars and we actually
17 put it into a revenue surplus deferral account, which
18 is in our deferral accounts. That amount attracts
19 AFUDC and is basically an over collection from our
20 customers in 2018.

21 So in the 2018 utility income statement
22 that's what you see. In the 2019 one as filed you
23 won't see that item. So, again, this waterfall graph
24 is comparing 2018 to 2019. So that debit or that cost
25 item does not exist in the 2019 one anymore, so
26 therefore you show in this waterfall graph a credit or

1 a reduction in the costs of the utility as compared to
2 2018.

3 MR. WEAVER: Okay. So the over collection in 2018 is
4 enabling you to smooth out in 2019 is the proposal?

5 MR. GOSSELIN: Yes. We discussed this a fair bit last
6 year. I think there was an undertaking as well from
7 the CEC that discussed different options for what we
8 plan to do with the 2017/'18 revenue surplus deferral
9 account. So, yes, it went into a deferral account and
10 we talked about different amortization mechanisms and
11 so on.

12 MR. WEAVER: Can you refresh me what the number was in
13 2017 going into 2018?

14 MR. GOSSELIN: So in 2017 I believe we added close to --
15 you know, I can't recall precisely, but --

16 MR. WEAVER: Maybe you can undertake to just provide that
17 afterwards.

18 **Information Request**

19 MR. GOSSELIN: Yeah, I think so.

20 MR. WEAVER: That's fine, yeah.

21 MR. GOSSELIN: It's an easy one to get for you anyways.

22 MR. WEAVER: Thank you.

23 **Proceeding Time 10:02 a.m. T15**

24 MR. GOSSELIN: Yeah. So back to David Craig's question
25 earlier, he asked what the balance is in our 2017/2018
26 revenue surplus deferral account. And the balance at

1 the beginning of 2019 is about \$30 million. FEI
2 proposes this year in 2019 to reduce that by about
3 \$6.6 million to hold our rates flat with our 2018 RDA
4 approved rates. So, the idea was that we do have a
5 deficiency before amortization of this account. We
6 have this account of over collected revenue that we
7 want to give some back in 2019 certainly, to hold our
8 customer's rates flat. That's the proposed. So at
9 the end of the year it would be about 25 million left
10 in it in 2019.

11 As an undertaking last year again, we
12 discussed many different ways to amortize this
13 account. So, I've shown a couple options here for
14 discussion purposes.

15 First, some of the underlying assumptions
16 behind the future years here. So, the underlying
17 assumption is that the balance of the LMI PSU project
18 enters rate base in 2020. So we see a fairly large
19 balance of the project entering rate base of that
20 year. And it causes some costs for our customers. I
21 don't have any other major projects included in our
22 forward years here, but I did assume just a general
23 cost increase of about 2 percent per year starting in
24 2020.

25 So, option 1 is essentially FEI's proposed
26 option. So for 2019 we hold rates at the 2018 RDA

1 approved levels, exclusive of riders, by amortizing
2 about \$6 million from the revenue surplus deferral
3 account, and then use the balance over the next few
4 years to mitigate rate impacts from LMI PSU, and other
5 unforeseen items that may come up in the next few
6 years.

7 Option 2, would be to let our 2019 rates
8 increase by the deficiency. This would lead to about
9 a 1.1 percent increase on delivery rates, and it would
10 lead the surplus balance at its current level of about
11 30 million, so we would take nothing out of it in
12 2019. Then again, use this balance over the next few
13 years to mitigate rate impacts of the LMI PSU, and
14 again, other unforeseen items.

15 My main point is that we should not attempt
16 to set the 2017/2018 revenue surplus deferral
17 amortization in this application but rather use it as
18 a tool to mitigate rate impacts over the next few
19 years. So as we propose in the application, we
20 propose to take some out of it, but not to say we're
21 going to give it all back over the next four years by
22 using some kind of amortization of -- equal
23 amortization over four years. But rather we're
24 proposing to give back enough to hold rates flat, and
25 then wait until next year again to see what happens in
26 the revenue requirement, and to again use this surplus

1 balance to mitigate rates perhaps in 2020, and so on.

2 That is all I have on the slides.

3 THE CHAIRPERSON: So, do we have any questions on the
4 subject?

5 MR. WEAFFER: Chris Weafer, Commercial Energy Consumers.

6 So we're going to spend a little time on
7 the surplus offline, but in a perfect world, in terms
8 of PBR and the signal to the ratepayer in terms of you
9 being efficient or not, or finding savings to some
10 extent theoretically you're hedging by having this
11 surplus. Because if you go over, you have got a way
12 the customers have already paid for it to smooth out
13 the rates. Is that a fair comment?

14 MR. GOSSELIN: I think as Diane had spoken to earlier,
15 there is a number of successes. Metrics that we call
16 successes in the PBR, things like our O&M per
17 customer, the fact that we have had the PIF built into
18 both the O&M and the capital. And then the SQI. So
19 we have a number of things that are bringing cost
20 down, certainly. The demand has been -- the increase
21 in demand from customers has certainly been a little
22 bit of a boon, and we've held that in surplus account.

23 So I wouldn't say it is an offset to future
24 costs, I would say it is something that could help
25 customers when larger projects come online.

26 MS. ROY: So, Chris, just to more directly answer your

1 question. I think we had a surplus, and rough math,
2 if it's 30 million now, then it was 7 million for 2018
3 and 2017, must have been 23 million.

4 MR. GOSSELIN: Yeah, about 20, yeah.

5 MS. ROY: Just to answer your earlier question. We had a
6 rate surplus in 2017 and in 2018. Otherwise we would
7 have had a rate decrease in those years. And had we
8 done that, and as you can see as Rick is just saying
9 here, the deficiency for this year is 1.1 percent. So
10 even if we do flow through the actual deficiency this
11 year, it is still well below inflation, and I think
12 that is a success on the rate front and at surplus in
13 those prior years, you know, we just held rates flat.
14 But otherwise we would have seen a decrease in those
15 years.

16 So, I don't think it has masked the PBR
17 results. I think it has demonstrated the PBR results.
18 And yes, if we -- certainly for this year if we go
19 with a zero percent rate increase, it would be
20 probably fair to say that it is masking it. But
21 otherwise, it would be 1.1 percent, which I think is a
22 reasonable level as well.

23 **Proceeding Time 10:08 a.m. T16**

24 MR. WEAFFER: And I am not taking any issue with any of
25 that. I'm just more of a philosophical basis in terms
26 of let's assume you haven't done so well with it, and

1 you'd under collected but now you're going into prior
2 surpluses collected to smooth it out, and the
3 appearance is that the utility has been operating all
4 under PBR when really its prime over collection from
5 ratepayers which is mitigating the rate increases.

6 So I'm looking at the environment where
7 rates would have been going up because of --

8 MS. ROY: But by 1 percent, yes. Yeah.

9 MR. WEAVER: Or if --

10 MS. ROY: Oh, you're talking about years beyond this
11 terms.

12 MR. WEAVER: Beyond you had years where the rate change
13 would have been 4 percent plus to the ratepayers, and
14 you've over-collected from them so you've mitigated
15 and sort of the concept that PBR is sending a signal
16 is masked by the fact that you over-collected.

17 MS. ROY: No, I don't agree. We've never had any years
18 where those kind of rate increases have been seen in
19 the PBR term. And if you go back to that slide I had
20 earlier, the highest was 1.8 percent, and it's -- so I
21 disagree with that point.

22 MR. WEAVER: And I recognize what's happened has
23 happened, I'm not debating that. So let me try it
24 another way.

25 I mean ratepayers, all things being equal
26 would rather not see over-collection. Is there any

1 way of mitigating the over-collection or is this
2 simply a historic anomaly that you had a --

3 MS. ROY: Well, it's not our -- this is approved by the
4 Commission, Chris. So we've had two annual review
5 applications where we've proposed to hold the rates at
6 the prior year levels and record the excess into the
7 deferral accounts, and that was approved by the
8 Commission. So we are just following the approved
9 treatment, and I assume, not speaking for the
10 Commission, that the Commission thought that was the
11 best route forward for those two years.

12 MR. WEAVER: And I'm more just focussing on the creation
13 of the surplus in the first place. Have there been
14 steps taken to avoid that over-collection from
15 ratepayers?

16 MS. ROY: Well, I think ratepayers certainly would like
17 to avoid an over-collection, but they are not harmed
18 because we are returning a weighted average cost of
19 capital return on that. And I believe ratepayers --
20 what we are trying to avoid is volatility so as to hit
21 them with a large rate decrease followed by a large
22 rate increase. And that's why Rick had provided in
23 previous years those undertakings that showed
24 different models about whether it made sense to hold
25 the rates or to decrease them and then see a
26 subsequent rate increase. And the determination made

1 by the Commission was that that flat rate profile was
2 more preferred.

3 MR. WEAVER: Fair enough. Thank you.

4 MR. CRAIG: David Craig, Commercial Energy Consumers.

5 A quick one on your waterfall graph. The
6 O&M 4.607 million. Can you give me a sense of how
7 much of that is volume versus rates; i.e. number of
8 FTE increase versus average pay per FTE?

9 MR. GOSSELIN: Not while I'm standing here.

10 MS. ROY: So that is probably --

11 MR. CRAIG: Do you want to take that as an undertaking.

12 MS. ROY: No, I'm just going to explain it. It's a
13 formula calculated amount, so it's not based on the
14 actuals. It's the formula. So it's just the prior
15 year formula escalated by the drivers of which one is
16 CPI and one is AWE. So you could possibly break that
17 down that way.

18 MR. CRAIG: Okay. And is that what the box above means?

19 MS. ROY: Yes, yes. That shows the formula amount is 4.7
20 million and then the items that are flow-through
21 outside of the formula are decreasing by 105,000.

22 MR. GOSSELIN: Yes, precisely.

23 MR. CRAIG: Okay, and then the depreciation and the
24 financing and return on equity, those are mostly
25 volume versus rate change here that -- still the Mitsu
26 project?

1 MR. GOSSELIN: Those are driven by rate base particularly
2 and yes, the LMI PSU coming into service has driven
3 the depreciation and earned return up a little bit.

4 MR. CRAIG: Great, that helps my understanding.

5 MR. GOSSELIN: Thank you.

6 THE CHAIRPERSON: Mr. Quail?

7 MR. QUAIL: I have no questions.

8 THE CHAIRPERSON: And Ms. Worth?

9 MS. WORTH: I have no questions.

10 THE CHAIRPERSON: Staff questions?

11 MR. GOSSELIN: Thank you.

12 MR. WOLFE: Jason Wolfe from FortisBC.

13 Today I'm going to speak on growth capital,
14 but more specifically what some of those drivers of
15 the growth capital are. As we discussed last year,
16 there's a difference between net customers and gross
17 customers. Gross customer additions are those
18 customers that require a service line and/or a main
19 extension and meter to serve them. And that's what
20 drives capital.

21 **Proceeding Time 10:13 a.m. T17**

22 So I'm going to into some detail on where
23 those additions are, what it's looked like over the
24 last number of years, because that is what is driving
25 a lot of the growth capital activity.

26 So this is a table, or a chart, that I

1 showed last year. It's a month-by-month view of the
2 number of additions we had, starting in 2014 and going
3 up to 2018. The bottom line there, the purple line,
4 is 2014 and you can see it moves along just under
5 1,000 additions per month, ramping up in the fall as
6 it normally does.

7 The trend in these slides is that we've
8 been adding more customers each year. So 2015 we
9 moved up to 16,000 customers; 2017 -- or, sorry, 2016
10 -- we moved to 17,000; and last year before I spoke we
11 were at -- we were in September in the red line and
12 what you didn't see last year at this presentation was
13 a big uptick in the last three months of the year.
14 That's the big red bump at the end there, where we
15 were adding close to 2500 customers per month. That
16 resulted in an overall number of customer additions of
17 20,805 new customers.

18 The majority of those customers were
19 certainly, as you would expect, in the residential
20 space, and this is a combination of primarily new
21 construction. So, new condo developments, new
22 detached homes, new townhouses, et cetera. But it
23 does also represent a smaller number of commercial
24 and, as well, industrial customer growth.

25 The blue line represents this year and the
26 numbers are up to last Friday. So the blue line there

1 showing in September where it ends just shy of 2,000
2 additions in September. Overall, year-to-date, in
3 2018 we are at 15,791 attachments. We still have the
4 last three months of the year, obviously, to add
5 customers and those are generally strong and our
6 expectation is that we will continue to add customers
7 somewhere in the two, to two and a half thousand
8 customers per month for the rest of the year, ending
9 up slightly above where we were last year, last year
10 being just over 20,000. We expect just north of
11 21,000 this year.

12 So we've seen continued strong growth.
13 Part of that growth as well this year, the difference
14 between this and last year, is on Vancouver Island,
15 where we're seeing a lot more conversion activity.
16 We're up about 50 percent year-to-date in our
17 conversions on the island, as a result of a number of
18 factors such as the amalgamation, the lower rate
19 there, and a number of marketing and advertising
20 initiatives to get those customers attached.

21 Next I have just a couple of photos showing
22 our activities and work that's gone on attaching
23 customers. This first slide is something that Ms. Roy
24 referred to a little bit earlier, about sustaining
25 capital being driven by growth activities. This is a
26 directional drill, a main going in in the Fraser

1 Valley, and it's a result -- or the upgrade is the
2 result of a number of additions that have happened in
3 that general vicinity, as well as overall load growth.
4 So at some point the existing system needs to be
5 reinforced. You have to have more capacity to meet
6 all these customers' needs. And in this case we are
7 doing a directional drill under one of the roads to
8 add that capacity.

9 This is contrasted with what I would term
10 is a fairly traditional then main installation, where
11 it's done to serve customers. Again in the Fraser
12 Valley, I believe this is for one of the greenhouses
13 out there that was requiring new service.

14 We had a number of IRs and questions about
15 common trenching, and I'm not the one to speak to the
16 very specific details of this, but I thought I'd just
17 show some pictures of what common trenching looks
18 like.

19 **Proceeding Time 10:17 a.m. T18**

20 The idea behind common trenching is that
21 it's a way in which we can be more efficient in the
22 installation of our service and we go in at the same
23 time as a number of other services. So there are
24 deeper services which are sewers and water mains, and
25 then above that goes gas and electricity, cable,
26 internet, those sort of things, going in on top. So

1 we are in the shallow level of installations.

2 But from a developer standpoint, what you
3 get is a developer not needing to coordinate a number
4 of different utilities. We can all go in at the same
5 time. You can see from these photos the things like
6 curbs aren't done, grass isn't in, roads aren't paved
7 yet. So that certainly makes it more efficient for
8 the developer and for us to get our installations in.
9 So by doing it in this manner, we are more efficient,
10 we are meeting the customers' needs and we'll monitor
11 this over time. And there are a number of IRs that
12 were on this that we referenced as well.

13 So when we talk about customer additions,
14 one of the questions that often comes up is that,
15 well, there is a lot of housing development in and
16 around the Lower Mainland, in the Interior and on the
17 Island and of course your numbers are going up because
18 there are more houses being constructed. The rising
19 tide lifts all boats.

20 One of the studies we perform annually is a
21 market share study where we try to marry existing
22 housing completion data from BC Assessment with our
23 own data from where our meters are to see, did we get
24 a good portion of those customers? What does that
25 market share look like?

26 So this graph is the latest information we

1 have, and you'll see that it says 2016. We don't get
2 our 2017 market share completed until later this fall
3 as we wait for BC Assessment data. But what you can
4 see from this is that for services that are within 200
5 metres of a main, our market share has been
6 increasing. So not only are we attaching more
7 customers in a gross sense, but we are also attaching
8 more of each housing development or each new
9 construction project.

10 Right now the blue line there is -- the
11 blue line are the total number of housing completions,
12 the red is a number that we got, and you can see there
13 it's 83 percent in 2016. So we've seen a solid trend
14 up in our market share, which begs a question of what
15 is driving that activity? What factors are resulting
16 in both the greater demand for our services and also
17 the higher market share?

18 And so as many of you know, the natural gas
19 rates are lower than other competing alternatives and
20 that's what this slide depicts. This is our
21 residential rates displayed in cents per kilowatt hour
22 so that we can easily compare them. And you can see
23 there that for residential customer they are paying
24 3.6 cents a kilowatt hour, renewable natural gas at 6
25 cents, and then the two tiers of BC Hydro.

26 So certainly this is one factor that

1 customers are looking at. And by "customers" I mean
2 end-use customers but also developers who are putting
3 in the services for those end-use customers. They are
4 looking at the affordability of energy, their pocket
5 book, and natural gas certainly helps them with that,
6 and as they start to understand rates a little bit
7 more, and granted a lot of customers don't know rates
8 very well, but they certainly know what their bill
9 looks like at the end of the month, and if it's lower
10 than it was, that's great.

11 And so having natural gas in their
12 developments and then for those end-use customers
13 certainly helps from an affordability standpoint.

14 However, that's not all we do. We don't
15 sit and just wait and hope that people understand
16 about affordability and understand that natural gas
17 rates are low. We actually have a number of
18 activities. We undertake trying to help developers
19 understand the value of natural gas and help them get
20 natural gas in their developments.

21 **Proceeding Time 10:21 a.m. T19**

22 As you can imagine, developers, builders,
23 are certainly worried about a number of factors, but
24 many of those factors revolve around the cost to
25 install and the complexity. Anything we can do to
26 reduce their cost and/or reduce the complexity of a

1 build will help them put in our product.

2 So we work with these developers helping
3 them, because they may not know what to do. Often
4 they will just put in what they did in their last
5 development and move on. However, Ben Nishi who's
6 sitting in the back is one of our Regional Energy
7 Solutions managers and he and his team will actively
8 go out to developers and try to understand what
9 they're looking for from an energy standpoint, and
10 then they search the market to bring solutions to that
11 developer that the developer might not have thought
12 of.

13 The first example here, that white unit in
14 the lower right-hand corner is a wall furnace. And I
15 actually have one in the back as well, on the break if
16 you want to go look at it. A wall furnace is a
17 natural gas furnace and it is placed on an outside
18 wall and it can heat a condo, a townhouse, a small
19 home, a coach house or a laneway home with just that
20 unit.

21 Being on the outside wall, the gas line
22 comes in from the outside. The air intake and exhaust
23 also comes in at that same area on the outside wall.
24 And then there's no ducting required. No ducting for
25 the forced air to be moved through the building. From
26 a developer standpoint this means they don't need a

1 mechanical room, so they don't have to pay for the
2 costs of a mechanical room versus living space. It
3 keep their cost down as a result. And then the
4 homeowner gets to have natural gas as a heating source
5 and meet their affordability needs.

6 The next example is here -- here, again, is
7 to deal with complexity, efficiency and affordability.
8 And what you see is a picture of high-velocity
9 ducting. So in a normal furnace in a basement – you
10 might be aware of this – you walk down and you see a
11 bulkhead and sometimes you hit your head on them.

12 A bulkhead is put in to drop the ceiling
13 down to allow for ducting to go through a building.
14 Builders don't like that because it costs more money
15 to put a bulkhead in, it drops the ceiling level
16 often, creates different aesthetics in a building, and
17 so as a result they may not put in a furnace.

18 What we were able to do here and which is
19 much more common is use a high-velocity ducting. So
20 we went out and searched the market, talking to
21 engineers, talking to manufactures to see if there's a
22 solution. And there was. And the solution is high-
23 velocity ducting, which then fits between the ceiling
24 joists and doesn't result in having to have a bulkhead
25 and all those associated costs. Again, meeting the
26 needs of the developer so that they can put in the

1 natural gas products that they want and that their
2 customers want without an impact to their costs or
3 their time.

4 We're also mindful of what our customers
5 want and -- of course, and also what the policy
6 environment and municipalities, the provincial
7 government is wanting. And one of the things that we
8 have seen that everyone will be quite aware of is the
9 strive and the need to reduce emissions.

10 So this next technology I'm going to show
11 you is a commercial carbon capture unit. And this
12 unit from a company called CleanO2, what it does is it
13 takes flue gas from a commercial boiler, takes that
14 through a chemical process, removes the carbon dioxide
15 in that process, produces soda ash as a by-product,
16 and also provides a bit of extra heat for preheating,
17 so therefore makes a boiler more efficient.

18 We are testing this in a number of pilots
19 right now throughout the Lower Mainland to see how
20 this unit works and we've had great response from our
21 customers looking for ways to both increase the energy
22 efficiency of their boiler equipment as well as
23 reducing emissions. And it certainly is neat that the
24 by-product of this is soda ash and soda ash can be
25 used for something like dishwashing detergent. And so
26 this is actually soda ash that's taken from our pilot

1 projects mixed with a few other simple chemicals to
2 make a dishwashing detergent, therefore scrubbing
3 carbon out of the boiler, and the resultant byproduct
4 is soda ash, which can be used in a whole bunch of
5 manufacturing processes.

6 **Proceeding Time 10:26 a.m. T20**

7 So these are a number of the technologies
8 and things that we're looking at, trying to be
9 innovative, meet our customers' needs, that then helps
10 us get gas and/or keep gas into developments and in
11 buildings and in residences, et cetera.

12 And those are the end of my slides if there
13 are any questions?

14 MR. WEAVER: Thanks, Jason. You maybe have answered
15 this, just your slides are reminding of DSM
16 initiatives. And I just want to confirm, under spend
17 on DSM initiatives is outside the formula, is that
18 correct?

19 MR. WOLFE: Yes. Sorry, Diane.

20 MS. ROY: Yes, that's correct.

21 MR. WEAVER: Thank you very much.

22 MR. CRAIG: David Craig. Can you help connect some of
23 this activity to applications that we had previously
24 to change the way that the criteria are established
25 for putting capital in?

26 MR. WOLFE: Certainly. I spoke mostly in the

1 presentation to the customer perspective and what they
2 are looking for that was driving attachments. But
3 certainly two years ago we had the completion of our
4 system extension, our main extension application. And
5 in that, it lowered the barrier or the cost to connect
6 to customers. And as a result, we certainly are
7 seeing uptake from that process, and that has helped
8 contribute to some of the activity that we see.

9 MR. CRAIG: And contributed to the customer growth
10 additions?

11 MR. WOLFE: Absolutely, yes.

12 MR. CRAIG: Excellent, thank you.

13 MR. QUAIL: I have no questions.

14 MS. WORTH: I just have a few questions. I have one
15 about the trenching initiative. Trenching costs are
16 part of base capital. So in your view are there
17 stronger incentives for efficiency in capital spending
18 for base capital as opposed to other capital?

19 MR. WOLFE: Diane or John?

20 MS. ROY: Sorry, could you repeat the question?

21 MS. WORTH: Sure. So we were talking about the common
22 trenching initiative. And I was just -- because those
23 are part of base capital, I was wondering if there are
24 stronger incentives for efficiency in capital spending
25 for base capital as opposed to other capital?

26 MS. ROY: Right, okay. Well, as it turns out, I mean

1 almost all of our capital is under the formula, so it
2 is considered base capital. The things that come to
3 mind that are outside the formula are things like
4 capital activities in support of natural gas for
5 transportation or biomethane activities. And because
6 those are growing markets and many of those capital
7 activities are fairly new, I'd say generally we might
8 be -- although we are always trying to get things done
9 for the least cost, when you're looking at that kind
10 of market it is more about trying to get it in place,
11 and seeing how it works.

12 So, it is slightly different, I would say,
13 but almost all of our capital, whether it is contained
14 in a formula, so it would have the same incentive
15 properties, and I think that was one of the goals of
16 the last PBR application was to keep as much in the
17 formula as possible.

18 MR. WOLFE: And just if I could add from the builder
19 developer standpoint, the incentive, is that we get to
20 put our gas in. Sometimes it could be something as
21 simple as not putting gas service in at the same time
22 as other services, causes an issue for developers, and
23 as a result they may not want gas. So finding ways
24 that we can then meet the developers needs by doing
25 something like common trenching helps us overcome that
26 hurdle.

1 MS. WORTH: Yeah, that was actually another question that
2 I had, was sort of you have got the innovative
3 technology examples and then you've also got the
4 common trenching. Both seem to be fairly focused
5 towards the developer rather than the individual
6 customer, the residential customer, is that fair to
7 say?

8 MR. WOLFE: Yeah, the developer is often the -- well, is
9 the individual, the person, the company, that chooses
10 that energy source to go in the building. They do
11 that by what their consumers are requesting or their
12 end-use customer is requesting, but ultimately it is
13 up to them. Often they may not choose to put a
14 certain energy source in, because they either don't
15 feel that the customer wants it, or because of cost
16 reasons.

17 **Proceeding Time 10:31 a.m. T21**

18 So we have to work with developers closely
19 to help them understand the value of gas and then get
20 it in, and overcome the hurdles, whether it be by
21 innovative technology type examples like this, or
22 efficiency through something like common trenching.
23 That overcomes the hurdles that they may see by
24 putting in gas. And therefore they're more likely to
25 put gas in.

26 MS. WORTH: Okay. During your part of the presentation

1 you mentioned that there was actually a fairly strong
2 uptick in the number of customers over the Island.

3 MR. WOLFE: Mm-hmm.

4 MS. WORTH: Now, is that from the developer's side of
5 things? Or is that existing customers, or existing
6 buildings that are now retrofitting to accommodate
7 gas?

8 MR. WOLFE: Well, we see both, because there is strong
9 new development going on on the Island, but the
10 increase I talked about, the 50 percent increase, was
11 in conversions. And so those are customers that are
12 converting from primarily oil furnaces over to natural
13 gas. And so they would need a new service and the
14 main sometimes as well.

15 MS. WORTH: Okay. And then also if we look at your
16 slide, capture rate for residential customers within
17 200 metres of the main -- I can't see, I'm afraid. I
18 don't have my glasses. I'm getting older.

19 So, you've talked about sort of the
20 increase. And there is definitely a market increase
21 in the FEI capture there. Would you say that that's
22 primarily due to the increase in customers on the
23 Island? Or is it sort of spread out through the
24 entire province? I'm just kind of wondering, you
25 know, what you can attribute to the Island and what
26 might be other factors?

1 MR. WOLFE: Just if I can use last year's numbers of
2 additions, we had approximately 20,000 customers
3 additions. 5,000 of those were on the Island, 5,000
4 were in the Interior, and approximately 10,000 were in
5 the Lower Mainland. So fairly evenly distributed
6 throughout the province.

7 MS. WORTH: Mm-hmm. Okay. So the Lower Mainland
8 actually was 10,000?

9 MR. WOLFE: Yes.

10 MS. WORTH: Okay. And you're expecting a fairly similar
11 distribution this year.

12 MR. WOLFE: Yes.

13 MS. WORTH: Although that's sort of a projection at this
14 point.

15 MR. WOLFE: Yeah, projection. Certainly we have the
16 three busiest months coming up, but we're seeing
17 similar activity. The only change a bit in the
18 activity is the number of conversions on the Island.
19 But we're actually seeing conversion activity in the
20 Lower Mainland, which we haven't experienced before as
21 well.

22 MS. WORTH: Okay. Thank you, those are my questions.

23 MR. MILLER: Staff have no questions.

24 MR. WOLFE: Thank you very much.

25 THE CHAIRPERSON: Thank you.

26 Ms. Roy, is it an appropriate time to take

1 a break?

2 MS. ROY: Yes.

3 THE CHAIRPERSON: Great. Let's reconvene at ten to
4 eleven, please.

5 MR. WOLFE: Thank you.

6 **(PROCEEDINGS ADJOURNED AT 10:34 a.m.)**

7 **(PROCEEDINGS RESUMED AT 10:50 a.m.)**

T22/23

8 THE CHAIRPERSON: Okay, please go ahead.

9 MR. CHERNIKHOWSKY: Good morning. My name is Paul
10 Chernikhowsky, and as alluded to by Diane earlier, I'm
11 going to start out with a bit of a discussion on our
12 sustainment capital. I'm not going to go through the
13 topic in exhaustive detail. I think Section 3 of
14 Appendix C-4 and the associated IRs cover the area
15 quite well, but I do just want to reiterate some of
16 the primary categories shown in the updated Table C4-4
17 of that appendix that are driving our capital variance
18 above formula.

19 So in that table we show our cumulative
20 annual variance over the period of PBR when compared
21 to formula is about 69 million, in that table.
22 Breaking that down, there's three primary contributors
23 to that cumulative variance. About half, 34 million,
24 are impacts from the PBR decision itself, and the
25 notes 1 and 2 in the table list them, and I just
26 summarize them.

1 Basically the reduction of the base
2 sustainment capital in the decision for the inclusion
3 of the Vancouver Island system within the FEI system.
4 And then there's the lower growth factor for customer
5 additions. So in the decision the growth factor was
6 50 percent instead of 100 percent for new customers.

7 The other half of the cumulative variance
8 is made up of two. One is unanticipated projects. So
9 these are primarily increased in-line inspection
10 activities, and that represents another 13 million,
11 approximately. And then as well in a similar vein,
12 unanticipated system improvements and new stations to
13 supply gas to new customers is another 21.6 million.

14 And Jason talked about this a bit earlier,
15 but just to reiterate, so these are growth projects
16 that are driven and occur through the system, but they
17 are driven by increased low as opposed to an asset
18 condition issue. And examples of these would be
19 system upgrades that were necessary to supply
20 increased demand in the Whistler and Campbell River
21 areas.

22 Again, the key message here is that we are
23 not deferring necessary essential work simply to stay
24 within formula. And another thing that I would
25 characterize it as, if you look at these three main
26 areas, in the absence of those pressures within the

1 PBR mechanism, excluding them our variance cumulative
2 over the term would have been manageable, I would say,
3 within the deadband and within the ability to control
4 projects that are flexible in the capital program. So
5 these represent the main challenges.

6 **Proceeding Time 10:53 a.m. T24**

7 So I'm going to switch gears now instead
8 and talk about our approach to integrity management of
9 our gas system at FortisBC. And I'd like to talk
10 about some of the projects that we're doing as part of
11 our sustainment activities, and also some of our
12 upcoming major projects, which will be the subject of
13 CPCN applications.

14 So first of all the goal is very
15 straightforward. Our policy is to strive for zero
16 incidents of significant consequences. And those
17 consequences could be safety-related. So a serious
18 injury or worse to any person, whether employees,
19 contractors, customers or the public; irreversible
20 long-term harm to the environment; or service
21 disruption. So, wide-scale outages that affect large
22 numbers of customers.

23 And how do we achieve that goal of zero
24 incidents? I like to think of it as a three-legged
25 stool with three fundamental underpinning aspects. We
26 have management systems that we use to manage our

1 system integrity. So, for example, as required by
2 code, we have a long-running and robust integrity
3 management program.

4 There's our people. And here I'm referring
5 to our highly trained professional and trade staff
6 that actually design and operate the system on a daily
7 basis.

8 And there's the specific activities that we
9 do. So for example surveying for leaks, undertaking
10 planned and unplanned maintenance. Ensuring adequate
11 ground cover over our pipelines. And many more.

12 But the activity I'd like to focus on today
13 is our in-line inspection program for our gas
14 transmission system, and that's what I'll get into
15 next.

16 So let's talk about in-line inspection,
17 also known as, colloquially, "pig and dig". So, we've
18 been running the in-line inspection, ILI smart tools,
19 since the late 1980s. And so for example we have a
20 photo on the left here, and this is a crew in, I
21 believe, our Penticton station, getting ready to
22 launch a pig into the pipeline, off to the right.

23 And essentially what happens is, the pig –
24 smart tool – travels along inside the pipe and it
25 records an electromagnetic signature of the pipeline
26 wall. And then we can then remove the pig, take the

1 data out of it and analyze it looking for anomalies.
2 And we're looking for things like metal loss, for
3 example corrosion, or other features such as gouges in
4 the metal or dents in the pipe wall.

5 So we run these tools on a five to seven-
6 year interval and it's based on a pipeline-specific
7 assessment. And it's important to note, though, the
8 original pipeline system constructed by FEI and FEVI
9 -- or FEI, was not generally designed for in-line
10 inspection. We're continually looking to increase our
11 capability to run these tools through retrofits to the
12 system. And in the industry, ILI is still considered
13 the best tool to assess pipeline condition.

14 For reference, we spend currently around \$3
15 to \$8 million a year on in-line inspection runs.

16 Then once an ILI run has found an anomaly,
17 needing further confirmation, the next step is an
18 integrity dig. And I have a photo on the right here
19 showing one that took place -- I believe this is in
20 the Surrey area, Lower Mainland. Essentially what
21 happens is, we dig down, expose the pipe, remove the
22 coating, and look more closely at the actual metal
23 over the pipeline. So we use these digs to validate
24 the ILI data, to assess if there is possible corrosion
25 growth, and looking at trends in it over time. And
26 then if necessary, conducting any site-specific

1 repairs. And we spend about \$2 million a year on
2 integrity digs.

3 And just for reference, you can see in this
4 picture, given the location, the disruption that it
5 can cause to both customers and the public as well.
6 So we try to avoid them, but at the same sometimes
7 they are necessary.

8 **Proceeding Time 10:58 a.m. T25**

9 So, as mentioned, we currently have the
10 ability to run in-line inspection tools through some,
11 but not all, of our transmission system. And so what
12 we've already talked about today, our current in-line
13 inspection methods and technology, fundamentally again
14 that technology is about looking for metal loss or
15 deformation in our large diameter pipelines.

16 Now, I'm going to talk about two upcoming
17 CPCNs. The first one is our upcoming application for
18 our so-called in-line gas upgrades project, and this
19 one is about the ability to add or -- to add the
20 ability to inspect small diameter pipelines.
21 Primarily these are what we refer to as laterals, so
22 taps off the Westcoast Transmission line in the
23 interior that we currently can't run ILI on. And then
24 the second one is to provide an introduction to our
25 so-called transmission integrity management
26 capabilities project. And then the associated

1 deferral account request.

2 That project is about enhancing our ability
3 to detect an emerging threat known as stress corrosion
4 cracking. But the key point here is that all three
5 activities are complementary. One doesn't replace the
6 other. And the long-term goal is to get us to that
7 centre spot where we are in the best position to
8 assess and monitor the condition of our transmission
9 pipelines using available technology.

10 So the first project up, as I referred to,
11 is our Inland Gas upgrades. For many years we've been
12 able to inspect many of our pipelines in the Lower
13 Mainland and our larger pipelines in the Interior.
14 However, we do have a substantial amount, it's about
15 400 kilometres of smaller diameter but high-pressure
16 pipelines in the Interior that we're not able to
17 inspect. And why is that?

18 Well, first, the pipelines were not
19 designed for in-line inspection as I mentioned
20 earlier. Some of them were installed over 50 years
21 ago, and so you can imagine at the time when the
22 technology didn't exist, they were designed with
23 blockages. So for example, tight bends in the
24 pipeline, small diameter valves, pipe wall thickness
25 changes. And all those prevent the ability of the
26 tool to run from one end of the pipeline to the other.

1 And secondly, until recently, the tool
2 simply didn't exist, so you couldn't -- there were no
3 vendors that offered a tool that would be able to
4 inspect a pipeline of that diameter. Vendors are now
5 offering tools to inspect the small diameter pipes,
6 and these generally are in the six to eight inch
7 range, and our assessment is that the technology is
8 mature and it's well demonstrated at other Canadian
9 pipeline operators, and so we feel it's appropriate
10 and prudent to take advantage of this newly proven
11 technology -- sorry, now proven technology.

12 That said, we are also considering more
13 cost effective solutions, and I list them here. So
14 for example, for short pipes it might make more sense,
15 actually, to simply replace the pipe with newer and
16 stronger pipe. You can imagine for a short, several
17 hundred metre stretch, installing the equipment to
18 launch and receive the pigs at each end is fairly
19 expensive, so it's actually easier in some cases just
20 to replace it.

21 And then the other alternative where it's
22 available to us is to reduce the operating pressure
23 such that any pipeline failures that do occur are not
24 by failure by rupture but instead by leak which can be
25 managed.

26 So we intend to file a CPCN later this year

1 in which we'll propose our various solutions, and the
2 project plan, and I just wanted to show that we have a
3 map here and it shows where the work will occur in the
4 area of our service territory, and so indigenous and
5 stakeholder consultation will be critical to the
6 success of the project.

7 So before we talk about our last and next
8 meter project, I just want to introduce some
9 terminology.

10 **Proceeding Time 11:02 a.m. T26**

11 And for this one we refer to something
12 called EMAT or electro mechanical acoustic transducer.
13 And that is a type of pig in-line inspection tool that
14 is relatively recently developed. It's a highly
15 sophisticated tool and essentially what it does is it
16 uses electromagnetic waves to make the pipeline wall
17 vibrate, and then it detects the soundwaves,
18 ultrasonic soundwaves coming back from it. And it can
19 be used to detect the condition of the pipeline wall.

20 What it's looking for is a phenomenon
21 called SCC or stress corrosion cracking. That is a
22 type of corrosion that can occur in certain pipelines
23 and it occurs lengthwise in the pipeline wall and it
24 weakens the strength of the metal. And the
25 justification for our project will be to allow us to
26 detect potential SCC in our pipeline system.

1 Now, SCC generally needs three conditions
2 to occur. It needs material that's susceptible to it,
3 presence of certain ground soil conditions, and then
4 steel operated at high stresses or high pressures. It
5 is a phenomenon that cannot be detected through our
6 conventional ILI tools that currently FEI runs. And
7 if left undetected it can result in a pipeline
8 failure, a rupture, due to excessive crack formation.

9 Now, while we haven't seen failures due to
10 SCC in our system, other operators in Canada have and
11 we have found evidence of SCC in our pipelines as
12 well. SCC is a time dependant threat, and so older
13 pipelines are at a higher risk.

14 And you can see in the figure on the left
15 it shows over half of our transmission system is more
16 than 40 years old. For interest, the original build
17 prior to 1970 was the original FEI system, and then
18 the big add in the 1990s was the Vancouver Island
19 system, when that was constructed. There was the
20 Southern Crossing pipeline in the 2000s, and then the
21 recently completed Coastal Transmission System
22 projects in the 2010s.

23 In terms of the acceptance of the tools,
24 the graph on the right shows the significant ramp up
25 of EMAT tool usage and other CEPA operators. And CEPA
26 is the Canadian Energy Pipelines Association of which

1 FortisBC is a member, and so we share information to
2 see what other companies are doing. The bars are the
3 actual numbers and then I had Excel calculate and add
4 a trend line so you can see the fairly significant
5 increase in recent years, which we expect to continue.

6 So as mentioned, SCC is currently
7 undetectable using current tools, and so this project
8 is intended to retrofit about 1400 kilometres of
9 pipeline to allow us to run these new EMAT tools to
10 detect any SCC. These are larger diameter pipelines,
11 typically 12 inches and greater. And, again, the
12 reason for that is -- why not smaller ones? The tools
13 don't exist.

14 Consistent with other similar major
15 projects we are currently seeking approval of a two
16 phase deferral account to collect the development
17 costs associated with the preliminary engineering and
18 risk assessment. So as discussed in the application,
19 we're seeking approval to create a new deferral
20 account to collect the development preliminary
21 investigative costs.

22 Phase one is intended to conduct what's
23 referred to as a quantitative risk assessment using
24 data that we previously collected about our pipeline
25 system and incidentally that data was collected
26 through our previously approved GAR project, gas

1 assets records project, which was funded through a
2 deferral account. This phase will essentially produce
3 a list prioritised by segment of pipelines which
4 require more scrutiny from an SCC perspective.

5 **Proceeding Time 11:06 a.m. T27**

6 Once we have that prioritized list, in
7 phase 2 we then intend to begin the preliminary
8 engineering to develop the scopes, estimates and
9 schedules for the modifications necessary to allow us
10 to run these EMAT tools to address the SCC risks.

11 And the reason we are seeking approval of
12 deferral to collect costs for both phases at this
13 time, is that we intend to begin that work in the
14 first half of 2019. Given the schedule shown here,
15 that would then allow us to start construction in
16 roughly 2022.

17 So, of course the question may be asked,
18 Why now? Why are we starting this work? Well, we
19 have it first of all a direction from the B.C. Oil and
20 Gas Commission to development a per-segment QRA,
21 quantitative risk assessment for our entire pipeline
22 system. And second, as mentioned, the tools are now
23 well proven and other operators are embracing the
24 technology. So, given those facts and the age of our
25 pipeline system, we feel that now is the right time to
26 assess and mitigate this potential risk.

1 That is the conclusion of my slides.

2 MR. WEAVER: Chris Weafer from Commercial Energy
3 Consumers.

4 Thanks, Paul. I'm going to focus on the
5 CPCNs. And as I understand, the TIMC project, that's
6 a billion dollar project over time, is that fair,
7 rough estimate as to what is going to unfold in the
8 implementation if that is approved?

9 MR. CHERNIKHOWSKY: In an IR we did respond that for
10 business planning purposes we have identified some
11 costs in future years of approximately 250 million a
12 year for three years. It is very early at this time,
13 and those are at best conceptual numbers, based again
14 primarily on the length of pipeline that needs to be
15 retrofitted and very high level estimates which still
16 need to be refined.

17 MR. WEAVER: Was that -- I've been doing this a long
18 time, and I've never come across a direction from the
19 Oil and Gas Commission resulting in a potential
20 billion dollar expenditure by a utility regulated by
21 this Commission. Was there any discussion with the
22 Oil and Gas Commission about what they were directing
23 to be done, and what the potential cost was going to
24 be to the utility?

25 MR. CHERNIKHOWSKY: So, first of all, to clarify, the
26 B.C. Oil and Gas Commission, their direction was for

1 FortisBC to conduct a quantitative risk assessment.
2 And what that is is basically they want to know what
3 the risk of failure and the consequences of failure of
4 any given pipeline segment are. They don't specify to
5 the operator or the utility any action that has to be
6 taken. That decision is up to the operator still.
7 Now, our decision is that the best way to respond to
8 those risk especially in this area, SCC is to be able
9 to run EMAT tools.

10 MR. WEAVER: And I look to the IR response to 21.6.1 to
11 BCUC Staff IR. Could you do the quantitative risk
12 assessment as a CPCN project in of itself, without
13 moving on to the CPCN in terms of the implementation
14 of your solution?

15 MR. CHERNIKHOWSKY: They are stand-alone phases, yes.
16 But fundamentally again we are aware of the risk. It
17 is not a question of whether the work needs to happen.
18 All the QRA is going to identify the priority of where
19 the work needs to happen. And so we want to still
20 undertake that work as soon as possible.

21 MR. WEAVER: And so just again, just trying to deal with
22 assessing the risks. Is it feasible from a regulatory
23 process standpoint to do what the Oil and Gas
24 Commission has directed, to bring that to the
25 Commission in terms of how realistic the risks are,
26 and then deal with what the solutions are? I mean,

1 consultant to assist us in that. Our initial first
2 pass produced by them will be later this year, and
3 then we expect to have the majority of our pipeline
4 system assessed in Q1/Q2 of 2019.

5 MR. WEAVER: Would the company be open to a process
6 around reviewing that quantitative risk assessment
7 with the Commission, in terms of getting a base for
8 step 2? And whether step 2 is the prudent course.

9 MR. CHERNIKHOWSKY: I think the bigger issue is, a
10 quantitative risk assessment by its nature, of course,
11 is highly technical. And I think really to tell the
12 more fulsome story, it would be necessary to combine
13 it with the work that's happening otherwise. So, I
14 wouldn't say that we're resistant to it, but I'm not
15 sure how useful it will be in absence of the other
16 information.

17 MR. WEAVER: This is obviously relatively new information
18 to the Commission and to stakeholders. So having a
19 more -- providing a more substantive justification for
20 that investment could be made, do you think that might
21 be helpful to those who are trying to understand this
22 potential investment?

23 MR. CHERNIKHOWSKY: Internally we have actually
24 considered perhaps having a workshop somewhere along
25 the way to discuss what we're working on, and the
26 impacts to customers, and to our system. And so we

1 could look at something like that, yes.

2 MR. WEAVER: We would certainly support that.

3 And can I go to your graph and as I said, I
4 was doing this a long time, which means my eyes aren't
5 as good as they used to be, and this is the EMAT tool
6 adoption that other CEPA operators. Can you tell me
7 what the information is on the X and Y?

8 MR. CHERNIKHOWSKY: Ah, yes. Sorry. The legend appears
9 to be lost there. So on the left side, we have -- the
10 Y axis is number of kilometres. So it's running from
11 zero to 4500 kilometres. And then on the bottom is
12 from years 2002 to 2016. That's the most current data
13 that we have.

14 MR. WEAVER: Are you aware of any utility that's invested
15 a billion dollars in this process? And that table of
16 information.

17 MR. CHERNIKHOWSKY: I would say that to our knowledge
18 mostly all other pipeline operators in Canada are
19 employing EMAT tools in their operations. So for
20 example, the Enbridges, the TransCanadas, are already
21 using these tools. So they have undertaken the
22 investments necessary to already run them.

23 And the analogy that I use is, if you have
24 ten people standing in a row and nine of them take a
25 step forward, effectively you've taken a step back.
26 So we want to ensure that we're consistent with other

1 pipeline operators in Canada.

2 MR. WEAVER: So the questions was sort of quantitatively
3 the amount of investment. You've looked at other --
4 several utilities, and these are -- this is the nature
5 of the investment that they've been making, a quarter
6 million a year to put in the technology?

7 MR. CHERNIKHOWSKY: It depends on the operator. The
8 other thing to keep in mind as well is, other
9 operators have a different system from FortisBC.
10 Other operators tend to have point-to-point pipelines
11 that may be very long. But there's no stops along the
12 way.

13 **Proceeding Time 11:16 a.m. T29**

14 So it's actually easier to retrofit pipelines like
15 that to run these tools, whereas the FortisBC system
16 stops at a number of stations throughout the Lower
17 Mainland, for example, and just running through the
18 various areas there's a lot of bends in its nature.
19 They are not straight pipelines that are point-to-
20 point. So the cost to retrofit tend to be a lot
21 higher.

22 MR. WEAVER: Right. The cost per kilometre is going to
23 be a lot higher for Fortis than it is for the ones you
24 are comparing Fortis to in the graph. Is that fair?

25 MR. CHERNIKHOWSKY: That's correct.

26 MR. WEAVER: Well, this isn't the workshop on this

1 topic. I'm just going to convey a significant level
2 of concern about it and the proposed investment in it,
3 and we'll deal with submissions around potential
4 process to help with that.

5 So thank you for your comments. With that
6 I'll let David or Janet if they have any questions.
7 Thank you.

8 MS. RHODES: So just one quick question on the same
9 graph. So if FortisBC were to add its kilometres into
10 this graph, how many kilometres would you be adding?
11 Around 4,000 I think around here.

12 MR. CHERNIKHOWSKY: We would be adding 1400 kilometres
13 approximately.

14 MS. RHODES: Thank you.

15 MR. ANDREWS: I have what I think is a follow-up
16 question about the same graph or the same concept.
17 And you were using the example of ten people of whom
18 nine step forward. How does FortisBC compare to other
19 gas distribution utilities in Canada, or in the United
20 States for that matter, in relation to the adoption of
21 this EMAT technology? Again, distinct from the long-
22 distance pipelines.

23 MR. CHERNIKHOWSKY: So just to reiterate, I would say
24 that pretty much every pipeline operator in Canada
25 already employs these tools. Pacific Northern Gas,
26 the other transmission line operator in British

1 Columbia, a distribution utility has run EMAT tools in
2 their system. At this point FortisBC has not run any
3 and does not have pipelines able to run them. And so
4 we feel that we are lagging compared to the rest of
5 the industry at this time.

6 MR. ANDREWS: In other jurisdictions, or PNG in B.C.,
7 are these investments in the use of this technology
8 driven by regulators?

9 MR. CHERNIKHOWSKY: They are partly driven by regulators
10 and experienced with past failure incidents. They are
11 also being driven by operators that feel the work is
12 necessary as a prudent operator to ensure the safety
13 of the system.

14 MR. ANDREWS: And what would you say is the reason that
15 Fortis is left behind, is the only one that hasn't
16 begun to use this type of technology?

17 MR. CHERNIKHOWSKY: Again, it primarily is due to the
18 configuration of the FortisBC system. Where other
19 utilities typically have long point-to-point
20 pipelines, our system is more of what we refer to as a
21 high pressure distribution system. And so one of the
22 issues, for example, is that these new tools have to
23 run at a certain flow rate through pipelines. And in
24 the case of a transmission operator where you may have
25 twined pipelines, you can control individually the
26 flow of whether it's oil or gas through that pipeline

1 and you can control the speed of the tool such that it
2 gives you accurate data.

3 The FortisBC system is a bit different
4 because our transmission lines are feeding our end-use
5 customers and so the flow rates to our customer are
6 directly related to our customer demand at any given
7 time. If our customers aren't demanding gas, the gas
8 doesn't flow through the pipelines. Conversely, if
9 they are demanding a lot of energy at a given time,
10 the flow rates are now too high. And these tools have
11 to run at a very specific speed through the pipeline,
12 otherwise they don't collect good data.

13 So effectively it was easier for other
14 operators that have the ability to control the flow
15 rate through their pipeline system compared to
16 FortisBC. For us, the ability to control flow rate is
17 something that we would have to do in some cases by
18 twinning pipelines.

19 **Proceeding Time 11:20 a.m. T30**

20 MR. ANDREWS: In terms of the regulatory authority, and
21 the Utilities Commission, and the Oil and Gas
22 Commission, you mentioned that the Oil and Gas
23 Commission has issued a direction which you are
24 characterizing as not necessarily crucial in driving
25 this forward. Do you anticipate that the Oil and Gas
26 Commission will follow up that direction, and would it

1 be normal for the Oil and Gas Commission to be looking
2 at directing the company to implement solutions that
3 come out of the research that they've now ordered?

4 MR. CHERNIKHOWSKY: So again, the Oil and Gas Commission
5 generally don't specify the specific activities that
6 operators undertake. We have been in discussion with
7 the B.C. Oil and Gas Commission. They are aware of
8 this preliminary work that we're undertaking, and our
9 proposed plans for both of our CPCN projects. And I
10 would say they are supportive of them. So, as long as
11 we continue on down that path, I don't expect to hear
12 much from the Oil and Gas Commission.

13 MR. ANDREWS: What was the impetus that led to the Oil
14 and Gas Commission issuing this direction?

15 MR. CHERNIKHOWSKY: It was a finding through an audit of
16 our integrity management program. So, every three
17 years the B.C. Oil and Gas Commission audit operators
18 to investigate the efficacy of their operators
19 integrity management programs. One of the findings
20 there is that although FortisBC, we've identified all
21 the activities that we use to manage our pipelines and
22 we feel that that covered the risks adequately, they
23 wanted to know, again, in a numeric sense, how risky
24 each pipeline segment was.

25 From our perspective, because we treat
26 every pipeline as being important, that need for that

1 information at that time wasn't necessary. That said,
2 it is helpful for this endeavor, because when you're
3 looking at retro fitting a large amount of pipeline,
4 having the ability to prioritize pipeline segments is
5 useful.

6 MR. ANDREWS: What is the consequence of a corrosion
7 stress -- a stress corrosion crack? I mean, I am
8 asking you to fill in the blank. Is this a
9 catastrophic rupture of a pipeline? Or how would it
10 manifest itself?

11 MR. CHERNIKHOWSKY: For high pressure pipelines typically
12 it would be a seam rupture along the length of the
13 pipeline, and yes, you would have an uncontrolled
14 release of gas at high volumes.

15 MR. ANDREWS: Those are my questions, thank you.

16 MR. QUAIL: I have no questions, Mr. Chair.

17 MS. WORTH: No questions.

18 MS. WALSH: I have a few follow-up questions about the
19 TIMC project, and particularly the deferral account.
20 You referenced actually as well in slide 27 the gas
21 assets record project and its connection to this
22 project.

23 I was just wondering, first of all, is the
24 data gathered through the gas assets record project
25 being utilized for this project? And if so, was that
26 coincidental? Or were the projects somehow connected?

1 MR. CHERNIKHOWSKY: So, the projects are directly
2 complimentary. So the gas assets records project,
3 what that was about, for those that weren't involved
4 in the original hearing, essentially it was to go out
5 and collect all of the information on our system that
6 we have, and you can imagine as effectively an
7 amalgamation of a number of different utilities over
8 many decades. Information was stored in offices
9 throughout the province. And so, the intent of this
10 project was to collect all that information, digitize
11 it, attribute it, and then store it into an electronic
12 database system. And so we've now done that.

13 **Proceeding Time 11:25 a.m. T31**

14 However, there was no analysis of that data
15 that went on. It was simply a categorization of what
16 the type of data was, who created it, what asset it's
17 related to. Now we're able to take advantage of all
18 that data, however, and analyze it and use that in
19 that quantitative risk assessment.

20 MS. WALSH: Thank you. Could you confirm or possibly
21 provide an undertaking, I just have a few questions
22 related to the gas assets record project, specifically
23 the first one being, it expects to be complete at the
24 end of 2018.

25 MR. CHERNIKHOWSKY: I would have to take that under --
26 subject to check, but I believe it was intended to be

1 completed at the end of -- or within 2019. But within
2 the originally approved budget.

3 MS. WALSH: Okay. Which is essentially part of my second
4 question, which was, I believe subject to check from
5 previous annual reviews that the forecast or expected
6 costs for that project was about 7.8 million. So, I'm
7 just wondering if you could provide information on how
8 closely that project is tracking to the original
9 forecast.

10 MR. CHERNIKHOWSKY: We can confirm that, but I can say
11 right now that we do intend to complete it as per the
12 original scheduled budget.

13 MS. WALSH: Okay. And then you mentioned in response to
14 BCUC IR 21.1 that FEI is leveraging internal resources
15 from its gas asset records project team to supplement
16 the consultant resources for the TIMC project. I'm
17 just wondering if that -- the result of using some of
18 those resources had had any impact on the gas asset
19 records project timeline, or completion?

20 MR. CHERNIKHOWSKY: It hasn't had any impact. Rather
21 it's benefited from it, as in the individuals that
22 were no longer required for that project now become
23 free, and because they're familiar with the systems
24 and the data that's being produced, it is well suited
25 for them now to transition over into the analysis
26 side.

1 MS. WALSH: Okay, thank you. Then this question is more
2 related specifically to the proposed or requested
3 deferral account for the TIMC project development
4 costs. So, in the application, in the table, the
5 Table 12.1 -- or 12-1, you've provided the Phase 1 and
6 Phase 2 development cost spending. And then in Table
7 12-2, which is where you describe the deferral account
8 request in the context of the BCUC's deferral account
9 guidelines, you had stated that in the absence of the
10 requested deferral account the development costs would
11 be a combination of O&M and capital expenses outside
12 of the formula.

13 This topic was also pursued in BCUC IRs as
14 well. I'm just wondering, in an undertaking, if it
15 would be possible to provide the estimated rate impact
16 by year under a scenario where the Phase 1 and Phase 2
17 development costs were not included in approved
18 deferral accounts.

19 **Information Request**

20 MR. CHERNIKHOWSKY: Yes, we can do that.

21 MS. WALSH: Thank you. And I just have a few questions
22 as well about the Whistler IP extension project.
23 Would there be -- would you be the person to ask those
24 questions to?

25 MR. CHERNIKHOWSKY: Sure.

26 MS. WALSH: Okay. Okay, so if you could -- I'll be

1 referring to BCUC IR 8.11.

2 MR. CHERNIKHOWSKY: I'm not sure if I have the IR, but
3 you ask the questions and I'll see.

4 MS. WALSH: Okay. We can forge on ahead.

5 MR. CHERNIKHOWSKY: Sure.

6 MS. WALSH: Okay. So, in response to BCUC IR 8.11, FEI
7 described the Whistler IP extension project. And
8 they've said since the filing of the application the
9 2018 estimated cost for this project has increased
10 10.3 million. I just wanted to clarify if the 10.3
11 million is the forecast total cost of the project.

12 MR. CHERNIKHOWSKY: That is correct, yes. It's the total
13 cost to completion.

14 MS. WALSH: Okay. And then in the response to BCUC IR
15 8.11, you describe that the system upgrade is driven
16 by significant capacity shortfall in Whistler that
17 cannot be resolved by typical infill system
18 improvements. And you also state that there were
19 delays in identifying a route that is acceptable to
20 all stakeholders.

21 **Proceeding Time 11:30 a.m. T32**

22 Is it possible to provide an update on,
23 first off, to sort of explain a bit more detail about
24 the issues with the stakeholders and any further
25 progress on that?

26 MR. CHERNIKHOWSKY: Fundamentally the issue was the

1 original project proposal was that the IP pipeline was
2 to be routed along Highway 99 into the Whistler area
3 to a new gate station constructed in the north end of
4 Whistler. And in our discussions with the Ministry of
5 Transport they had concerns having a pipeline within
6 their road right of way.

7 The existing pipeline is routed in a
8 portion of it. However, for whatever reason, the
9 Ministry felt that they did not want more pipeline
10 than necessary located in that right of way. So
11 FortisBC, we then undertook discussions with the City
12 of Whistler instead, the municipality, and came to an
13 agreement where we could actually route our pipeline
14 through the municipal roadways.

15 And in some ways that actually is
16 advantageous because it actually allows for less
17 disruptive construction. We don't have to shut down
18 the highway. But the construction techniques
19 themselves in any event in the Whistler area are
20 highly complicated. As you can imagine, Whistler is
21 primarily rock, and so a lot of the pipeline there is
22 excavation through rock. There is also complications
23 associated with railway crossings, highway crossings
24 as well.

25 And then in terms of the project cost
26 estimate itself, I would say that when we originally

1 estimated the project, it was based on conventional
2 practices at that time and our knowledge of previous
3 projects. The estimate that we've submitted in the
4 application and the update is based on actual contract
5 costs. So at the time of the original estimate, we
6 had not even issued a tender, whereas now we have
7 confirmed costs that were issued through a competitive
8 tender to complete this work.

9 MS. WALSH: And just following up on the new estimated
10 cost of 10.3 million, would it be possible in an
11 undertaking to provide a breakdown of the actual
12 forecast costs by year for the project?

13 MS. ROY: I believe all the costs are in 2018.

14 MR. CHERNIKHOWSKY: Yes, the project will be completed in
15 2018.

16 MS. WALSH: Okay, so -- but you would be able to provide
17 a breakdown of the costs.

18 MR. CHERNIKHOWSKY: Into high-level categories, yes.

19 **Information Request**

20 MS. WALSH: Thank you. And then just understanding that
21 FEI's threshold for spending or materiality threshold
22 was increased under the, I think it was the 2015
23 decision to 15 million, so this would fall below, but
24 just in consideration of some of the consultation
25 issues that FEI was having and the increase in costs,
26 did FEI consider filing this application separately

1 from the annual review process?

2 MR. CHERNIKHOWSKY: I would say fundamentally because the
3 project did not exceed the major projects capital
4 threshold, at this time, no, we did not.

5 MS. WALSH: Thank you.

6 THE CHAIRPERSON: All right. Thanks very much for that.
7 Who is your next presenter?

8 MR. WONG: So I'm going to conclude the formal part of
9 the presentations with a quick overview of the SQI
10 results, specifically 2017 full-year results and the
11 August 2018 year-to-date results.

12 So this format you've seen in the past and
13 it includes the 2017 annual results. This is
14 consistent with a decision in Order G-44-16 where the
15 Commission determined it was appropriate to review
16 service quality in the following years' annual review.

17 There is specific discussion of this
18 discussion on page 137 of the application.

19 **Proceeding Time 11:34 a.m. T33**

20 So just in terms of an overview, the top
21 part are the ones with the benchmarks. There's nine
22 of them in total. If you see the -- refer to the 2017
23 column, all nine of them were benchmarks, either have
24 met or exceeded the benchmarks. And for the four SQIs
25 that are considered informational only they are at the
26 bottom. The results of 2017 are generally consistent

1 with that of the recent years' results.

2 And then in the 2018 column the results are
3 consistent with 2017, except perhaps with a slight
4 variation for meter reading accuracy. Last year is
5 marginally a little lower than the benchmark. I'll
6 have that specific number in the next slide.

7 So in terms of the, what we call
8 responsiveness to customer needs service qualities
9 there's five of them in total with benchmarks. And as
10 you can see for 2017 they've all met or exceeded the
11 benchmark. And then for 2018 year-to-date the only
12 one, as I said earlier, that's slightly a little bit
13 lower than the benchmark is the meter reading, but
14 that's just 0.1 percent lower than the benchmark.

15 And just as a note, the 2018 year-to-date
16 was also -- this is the first time you're probably
17 seeing them. What we filed in the application was the
18 June year-to-date. As you can see when you refer to
19 the application the results are fairly similar.

20 And then for the remaining SQIs, the safety
21 and reliability, as you can see they all -- the ones
22 with a benchmark all have met or exceeded the
23 benchmarks. And then, again, also for the
24 informational indicators at the bottom half of the
25 diagram, the results are generally consistent with
26 that in the past.

1 So when we look at it overall in terms of
2 the PBR to date, so from 2014 to 2017 full-year and
3 also 2018 August year-to-date, the SQI performance
4 benchmarks have all been above the threshold at least.

5 That's it in terms of the results. I can
6 take any questions on SQIs or perhaps we can just have
7 a general discussion about other questions.

8 THE CHAIRPERSON: Do we have any questions specific to
9 the SQIs?

10 MR. ANDREWS: I have some questions about the
11 informational measure to do with the company's
12 greenhouse gas emissions. And I'll be referring to
13 Exhibit B-4, the company's response BCSEA IR 7.1. To
14 get ourselves oriented, on the first page of the
15 response there are figures for GHG emissions from 2009
16 to 2013, and then the table continues over the page
17 2014 to 2017. Do you see that?

18 MR. WONG: Yes.

19 MR. ANDREWS: And lower -- in the middle of the page,
20 page 15, there's a block of GHG emission numbers for
21 2009 to 2013 that are restated, and those are using --
22 they're back estimated using the same GHG emission
23 factor as is shown in the 2014 to 2017 above. Is that
24 -- are we on the same --

25 MR. WONG: Yeah, I'm on page 15.

26 MR. ANDREWS: Yeah. So my question concerns the overall

1 trend and the factors related to it. So you look at
2 the 2009 down to 2013, it's roughly declining and
3 likewise 2014. However, in 2017 there appears to be
4 an increase.

5 **Proceeding Time 11:38 a.m. T34**

6 And my question is, what is the reason for
7 an increase in 2017? Is that a deviation from an
8 overall trend, or is that just an indication of the
9 variability that is normal from year to year?

10 MS. ROY: I think we'll have to take an undertaking on
11 that one, Bill.

12 **Information Request**

13 MR. ANDREWS: Yes.

14 MS. ROY: We don't have anybody here to answer that
15 question.

16 MR. ANDREWS: Thank you. If you would respond to that by
17 undertaking.

18 MR. WONG: We can do that.

19 MR. ANDREWS: That would be very helpful. Thank you.
20 Thank you.

21 MR. QUAIL: I'm going to shock everybody by saying
22 something nice. And that is, want to acknowledge the
23 attention of the company to employee safety. Note the
24 improvement in the already low frequency rate, further
25 improvement comparing the June year-to-date to August,
26 decreasing from 2.8 to 2.81. So, again, pick

1 yourselves up from the floor. We're not saying
2 anything other than this is an item where there's an
3 acknowledgement of improvement that you've made.

4 MR. WONG: Well, thank you, Jim.

5 MR. ANDREWS: If I may, I have a question that's not
6 specifically on SQI.

7 THE CHAIRPERSON: In that case, then, if I can ask that
8 we -- we can move to the open question section.

9 MR. ANDREWS: Sure.

10 THE CHAIRPERSON: And we will just take them in sequence,
11 starting with Mr. Weafer. Oh, in that case, yes, Mr.
12 Andrews. It's your turn again.

13 MR. ANDREWS: Okay. This topic concerns DSM spending and
14 savings. I think I'll refer to Exhibit B-4 again, the
15 company's response to BCSEA IR, and this time it's
16 2.3. There's a table provided on page 3 of the
17 response that shows DSM spending by program area. And
18 the first set of columns is the span, and the second
19 set of columns is the savings in gigajoules.

20 The numbers may be a little hard to read,
21 but the question I have is to do with the difference
22 between the 2018 projected and the 2018 plan. And for
23 some of them, for some of the program areas there
24 isn't a large difference. However, for example, for
25 the industrial 2018 projected figures, 1,624, which
26 would be 1.6 million, compared to a 2.9 million spend,

1 MR. WOLFE: I think we do.

2 MR. ANDREWS: And does it follow that you're planning or
3 anticipating spending more on the industrial area in
4 2019 than you otherwise would have planned?

5 MR. WOLFE: This is subject to check. I probably would
6 have to check the exact specifics of what that plan is
7 for 2019. Certainly we have seen a little slower
8 uptake on those programs in 2018 due to the timing and
9 the issues that the industrial customers have in
10 executing, but right now we certainly have projects
11 that we are anticipating for the rest of this year and
12 next year, the timing of which I'm not a hundred
13 percent sure on, I'd have to check what that dollar
14 number would be.

15 **Information Request**

16 MR. ANDREWS: If you wouldn't mind, that would be
17 helpful.

18 MS. ROY: And I'm sorry, Bill, just to confirm, would you
19 still like a follow-up as well on a low income
20 decrease in 2018?

21 MR. ANDREWS: Yes, please.

22 MS. ROY: As well as what the plans are for 2019 for
23 industrial? Is that correct?

24 MR. ANDREWS: Yes, and we'll get to low income as well in
25 a sec.

26 **Information Request**

1 MS. ROY: Okay.

2 MR. ANDREWS: But while we're on industrial, can you
3 discuss the relationship, if any, between the growth
4 in demand from the industrial customer class and the
5 DSM spending and savings?

6 MR. WOLFE: The growth and demand is the result of a
7 couple of factors. One is the addition of new
8 customers that are using natural gas for their
9 processes and we've seen some growth in the
10 agricultural area, specifically greenhouses has been
11 driving some of that growth. The other growth that
12 we've seen is a fuel-switching -- as a result of fuel
13 switching, so in our cement -- some of our cement
14 customers have been moving from using coal for their
15 main source of energy over to natural gas. As a
16 result you see an increase in volume there.

17 Both of those reasons are distinct and
18 separate from our DSM initiatives with respect to
19 those customers.

20 MR. ANDREWS: Why would the cement producers be switching
21 from coal to natural gas?

22 MR. WOLFE: Two reasons: Price and emissions.

23 MR. ANDREWS: If I could direct you to the low income
24 line on the savings side of it, while the spend for
25 2018 projected is lower than the 2018 plan, the
26 savings are quite a bit higher in 2018 projected than

1 2018 planned. Is there a reason for that? And can
2 that be expected to continue in 2019?

3 MR. WOLFE: I think we'd have to take an undertaking for
4 that. I don't have that information handy.

5 **Information Request**

6 MR. ANDREWS: Thank you. So I think if I could summarize
7 it, it would be essentially to provide the 2019
8 version of this table.

9 MR. WOLFE: The whole table or the industrial and the low
10 income?

11 MR. ANDREWS: I think it would be helpful to have the
12 whole table to put them in context, but if there's a
13 substantial amount of extra work involved, then no.

14 MS. ROY: No, the table would have been filed in our
15 2019-22 DSM application so it's a fairly simple matter
16 to just provide that table.

17 MR. ANDREWS: In that case that's probably the easiest
18 way to do it them. Thank you. Those are my
19 questions.

20 **Proceeding Time 11:48 a.m. T36**

21 MS. WORTH: So I have a question about the Table 1-4 in
22 Exhibit B-2. Not necessarily something you have to
23 refer to, but it's the actual CapEx, formula CapEx to
24 meet to the year 2014 to 2018 projected. With the
25 cumulative variance over the five years of \$150
26 million.

1 And I'm going to ask, in FEI's opinion, and
2 given these large and persistent overages, does it
3 make sense for FEI to have a formulaic CapEx amount
4 should there be a future PBR plan in the near future?

5 MS. ROY: We feel that there is still value in having a
6 formula approach. It does provide a lot of
7 flexibility in how we prioritize projects year to
8 year, and we have been able to find some savings by
9 looking at that capital planning on a longer-term
10 basis. I'm sure Paul or others could attest to that.
11 And we've talked about it at other annual reviews as
12 well.

13 So I think there's still value in having a
14 formula approach, and we do believe that we can
15 develop a formula approach that is going to work for
16 the next PBR plan. And we've learned a lot from this
17 plan, at what doesn't work. And so we're trying to
18 take those learnings and bring it forward to the next
19 plan that we would propose. Of course, it will be up
20 to the Commission to decide.

21 MS. WORTH: Okay. And when you say "work" you mean one
22 that wouldn't actually result in these types of
23 persistent overages?

24 MS. ROY: Yeah, well, I think you're still going to --
25 you're never going to be able to be exactly on the
26 formula. But you know, our goal would be to have a

1 formula where we could actually demonstrate some
2 savings against the formula by having that kind of
3 approach. That would be what I would consider a
4 success.

5 MS. WORTH: Okay. I'm going to ask a question about
6 FTEs under the PBR. In Exhibit B-3, BCUC IR 1.2.0,
7 there was a preamble saying 2017 increases of 67 FTEs,
8 25 outside base O&M, 2018 increase of 79 FTEs, 58
9 outside base O&M. So if I look at BCUC IR 1.2.5 and
10 the response, it appears that you were attributing
11 these increases to processing and administrative
12 efforts occasioned by an increase in new services,
13 mainly. If this is a fair interpretation of what your
14 answer is, wouldn't there be economies of scale in
15 processing and administrative functions to be
16 expected, so that staff increases might be moderated?
17 Or are those actually reflected in the increases that
18 you have reported?

19 MS. ROY: Sorry, could you just summarize that question
20 one more time?

21 MS. WORTH: Sure. So, as an operation adds service,
22 presumably there would be sort of economies of scale.
23 So what I'm asking is, do those additions of the FTEs
24 that are attributed to the increase in new services
25 reflect those economies? Or are those to be found at
26 a later date, once FEI has actually sort of got those

1 workers up and running.

2 MS. ROY: I don't know if John or anybody else here could
3 respond to that. All I know is about the -- you know,
4 we add FTEs to support operations, we have to develop
5 an entire crew, I understand. And that's how it
6 works. I would think any embedded productivities,
7 they would be adopting the same practices that are
8 already established by the existing crews. But I
9 would definitely turn to others to see if there's
10 anything they could add.

11 MR. HIMMEL: Yes, that's correct. FEI works hard to make
12 sure that we are efficient in all areas of the
13 (inaudible) including in our capital and O&M. So,
14 yes, the efficiencies would be included in the
15 numbers.

16 **Proceeding Time 11:52 a.m. T37**

17 MS. WORTH: Thank you.

18 On page 11 of the application, there was a
19 passage indicating that, in addition to the formula-
20 related pressures that you discussed regarding the
21 Commission's order, that FEI had continued to
22 experience other capital cost pressures in 2018 due to
23 work that had been reprioritized from previous years,
24 and into 2018 and that they had become urgent and
25 higher priority activities during that period.

26 So what I'm going to ask is, doesn't the

1 fact that projects are reprioritized during a PBR,
2 punted to later dates, sometimes known, sometimes
3 unknown, carry with it the risk that this very thing
4 will happen, sort of unforeseen projects or unforeseen
5 timing of projects will occur?

6 MR. CHERNIKHOWSKY: So it's Paul Chernikhowsky from
7 FortisBC.

8 I'm not sure that whether you're in PBR or
9 not really has that impact. All we're saying is that
10 in earlier years in an attempt to manage capital
11 pressures, yes, we deferred flexible projects which
12 had no material impact on the system, or for example,
13 were more for business efficiency purposes, and we
14 deferred those to future years. However, at some
15 point that work that is initially considered flexible
16 transitions to become either essential or urgent in
17 nature that you have to complete it. Whether you are
18 in cost of service or PBR, the same effect can happen.

19 MS. WORTH: So is it fair to say that FEI did not foresee
20 that these particular flexible activities would become
21 urgent and higher priority within the PBR term?

22 MR. CHERNIKHOWSKY: No, I wouldn't necessarily say that.
23 I'll give an example. So flexible work might be work,
24 for example, at a station where you have work arounds.
25 For example, there might be a safety issues presented
26 but with minor workarounds and crew work procedures,

1 you can still conduct the work safely. Our preference
2 is in the longer term to engineer out those hazards.
3 So that work is initially considered flexible.
4 However, at a certain point, the inherent
5 inefficiencies and risks associated with the work
6 procedures drive it into a more essential type of
7 work.

8 Another example would be equipment
9 obsolescence, where once a manufacturer has said that
10 they are no longer going to support equipment.
11 Initially you may have spares and so on that you can
12 use to continue operation of the business, but at some
13 point you use those up and then you have to now
14 replace the equipment.

15 MS. WORTH: Okay, so I'm struggling because my question
16 was whether FEI foresaw that these were actually going
17 to occur within the PBR period. We've had
18 significance variance, particularly in this past year,
19 on the capital expenses, and your answer seems to
20 indicate that FEI actually did foresee that these
21 would come to be urgent or at least a significant
22 portion would become urgent within the PBR.

23 So I'm just trying to square the circle
24 here in that it seems that FEI wasn't able to actually
25 foresee that the projects that it was putting off were
26 going to become urgent and would require action within

1 the PBR period, and yet you're saying that that's not
2 the case. So I can't -- I think what I was hearing
3 was --

4 MS. ROY: If I could, maybe it would help just to go back
5 to the discussion we had earlier when I was up talking
6 about the PBR capital formula wasn't set based on a
7 projection of specific projects happening at any time,
8 and in fact it's not a budget in terms of a budget
9 that's approved by the Commission for certain
10 projects. It's just a base that's escalated by a
11 formula. So whether we could have foreseen the
12 specific events happening wouldn't change the amount
13 of the formula that we would have been allowed. That
14 was a decision that came based on, you know, the base
15 and then some certain adjustments to the formula that
16 were decided by the Commission.

17 So whether or not we could have foreseen it
18 is not really, I don't think, the relevant question.
19 You know, there are a number of things, of course.
20 The further you go into the PBR term there is more
21 things that are going to come up that didn't exist in
22 the base, but whether -- even if we could've foreseen
23 those things under the PBR formula it really wouldn't
24 have changed the formula necessarily.

25 **Proceeding Time 11:57 a.m. T38**

26 Because we didn't take a base and say,

1 "Here we're trying to adjust it for everything we
2 think it going to happen over the next six years." It
3 was just a number. So that's why it's difficult to
4 answer those questions, but, you know, that's the way
5 we're trying to explain the best we can, you know,
6 what those variances are.

7 MS. WORTH: And so that's part of the learnings that
8 you're going to take going forward, should you
9 actually apply for another PBR, would be sort of how
10 to actually --

11 MS. ROY: Yeah. I think specifically the learnings we
12 will take forward are the kinds of things that Paul
13 had talked about. We have -- the biggest problem was
14 with the way the base was set, excluding the VI
15 sustainment capital. Then there's some other things
16 around the in-line inspections and also the growth
17 that's embedded in sustainment, and those are all
18 things we're going to be looking at for sure, trying
19 to fix in the --

20 MS. WORTH: Thank you. So I wanted to ask a question
21 about planner toolbox. There were a couple of IRs,
22 they were in Exhibit B-3, BCUC IR 1.7.1 and 1.7.2,
23 where there was a discussion of the estimates of
24 annual savings of about \$150,000 per year with no
25 reduction in headcount or in revenue requirements
26 since any labour savings would be reassigned to

1 support increased activities and requirements in other
2 areas.

3 So I'm going to ask -- or actually I'm
4 going to put it to you, there's actually going to be
5 no direct benefit to ratepayers as a result of this
6 initiative, is that a fair characterisation in your
7 view?

8 MR. HIMMEL: No, that's not correct. There will be a
9 benefit in that there is efficiencies that are gained.
10 It's back to one of the comments that one of the
11 interveners made, it's very difficult to harvest
12 benefits when you have a work force spread over a
13 large geographic territory and you have a growing
14 demand on the workforce from growth and other
15 activities.

16 So there is a real benefit to ratepayers
17 for it in that we're able to reduce things like
18 overtime and achieve the benefit that way.

19 MS. WORTH: And will those benefits be tracked for future
20 applications? And for ratepayer information as well
21 as the commission?

22 MR. HIMMEL: We can. They are very small and really
23 amount to small amounts in our various regional
24 offices. And are both a combination of capital and
25 O&M as planners are engaged in capital activities.

26 MS. WORTH: I have a question regarding UPCs or use per

1 customer forecasts. I just wanted to double check
2 whether FEI has used a previously approved
3 methodologies without any variance in estimating the
4 UPC and forecasting demands by rate class?

5 MR. BAILEY: Yeah, there's no change in previous methods.

6 MS. WORTH: Okay. Thank you, those are my questions.

7 THE CHAIRPERSON: Do we have any staff questions? Okay.

8 MS. LAI: Tanya Lai, BCUC staff.

9 My first question is with respect to demand
10 forecasts, specifically the mean average percentage
11 error or also known as MAPE. In Appendix A-2 of the
12 application FEI discusses its forecast results in
13 terms of the MAPE for residential and commercial UPC
14 and commercial customer additions.

15 In response to BCUC IR 12.2, in the last
16 paragraph FEI states that its current load forecasting
17 methods result in long-term forecast performance that
18 is significantly better than the industry average.
19 Could FEI please clarify what the industry average is
20 that FEI is measuring against?

21 MR. BAILEY: David Bailey here. The industry average was
22 established in Appendix A-4, which was the forecasting
23 directive from the I believe 2017 filing. And in that
24 filing we conducted a survey of Canadian and U.S.
25 utilities and combined that with some results from
26 Itron, and from that determined that the average error

1 for the next forecast is around 4 percent.

2 MS. ROY: And just to clarify, that's appendix A-4 from
3 the last year's annual review application.

4 **Proceeding Time 12:02 p.m. T39**

5 MS. LAI: And my next series of questions is with respect
6 to FEI's natural gas for transportation program. In
7 Appendix B, page 2 of the application, in Table B-1,
8 with respect to fueling stations, FEI states that they
9 will apply for a CPCN for the construction and
10 operation of fueling stations that do not qualify as a
11 prescribed undertaking under the greenhouse gas
12 reduction regulations.

13 Could FEI please discuss if there were any
14 fueling stations constructed by FEI during the current
15 PBR period that were not prescribed undertakings under
16 the GRR?

17 MS. ROY: I don't believe there are any, but I would just
18 take that subject to check.

19 MR. GOSSELIN: Yes. Subject to check, I know there was
20 an expansion for waste management which was outside
21 the GRR. However, subject to check, we'll respond to
22 that.

23 **Information Request**

24 MS. ROY: Your question is whether there was anything
25 that was undertaken under the GRR, or that did not
26 apply.

1 MS. LAI: Not a prescribed undertaking.

2 MR. GOSSELIN: Not under the --

3 MS. ROY: Oh, okay.

4 MS. LAI: Under the GRR.

5 MS. ROY: I understand.

6 MS. LAI: So any fueling stations that were not developed
7 for CNG or LNG customer that qualify as an undertaking
8 under the GRRs.

9 MS. ROY: Okay, we will do that.

10 MR. GOSSELIN: Yeah.

11 MS. LAI: Okay. That's all the questions I have. Thank
12 you.

13 MS. WALSH: I just have one question and it's actually a
14 clarification question from slide 11 of the
15 presentation. The graph that shows the timing, '17-
16 2018 surplus amortization options. I just wanted to
17 clarify with regard to this graph, for the years 2020
18 to 2023, what assumptions, if any, did FEI make about
19 amortization of the revenue surplus deferral account?

20 MR. GOSSELIN: What I did for that slide in the years
21 2020 through 2023 for amortization was basically plug
22 and play to level out the rate, such that it was as
23 flat as possible. So, there is no -- it's not an
24 amortization rate over three years. It was plugging
25 the numbers to amortize off that deferral account
26 until it hit zero at the end of 2023.

1 MS. WALSH: Okay. So basically you had amortized out the
2 deferral account to the end of 2023, it's just not
3 like a set amortization.

4 MR. GOSSELIN: Yes. Correct, yeah.

5 MS. WALSH: Okay. Thank you.

6 THE CHAIRPERSON: Okay. I believe we're completed with
7 the questions, then.

8 So do you have any closing remarks on
9 behalf of Fortis?

10 MS. ROY: Sure. I'm just going to summarize what I have
11 as undertakings, and if there's anything else that I
12 haven't mentioned, please stand up and let me know.

13 The first undertaking I had was a breakdown
14 of the training and possibly the other costs that are
15 included in there for the gas workforce management
16 program, and I believe that's BCUC IR 5.3 that was
17 being referred to. Okay?

18 **Proceeding Time 2:44 a.m. T40**

19 I believe we've answer other question which
20 was around the 2017 addition to the surplus deferral
21 and that was -- I said it was \$25 million. So I think
22 that has been resolved.

23 MR. GOSSELIN: Yes, that's correct.

24 MS. ROY: And just to finally confirm that the vehicle
25 insurance is in the O&M formula. Just to absolutely
26 confirm that one.

1 Regarding the TIMC deferral account, I have
2 an undertaking to estimate the rate impact by year if
3 we did not include those costs in a deferral account
4 but instead had them in O&M and capital.

5 For Whistler, a breakdown of the cost by
6 category for the project. So further detail on the
7 estimated costs.

8 For greenhouse gas emissions, the
9 discussion of the increase in 2017 greenhouse gas
10 emissions as shown in BCSEA 7.1.

11 Regarding DSM spending we have a discussion
12 of the change in the low income spending from 2018
13 plan to 2018 projected which is a decrease, but at the
14 same time we're seeing an increase in the savings over
15 that same time period. So to check that, confirm and
16 describe what's going on there. And also to file the
17 2019 version of the table. That is in the IR that we
18 were referring to there.

19 And finally, I have to confirm whether or
20 not there were any NGT fueling stations constructed
21 there were not a prescribed undertaking under the
22 greenhouse gas reductions regulations.

23 Is there anything else that was missed?
24 Okay, great, thank you.

25 So thank you for our final annual review in
26 our PBR term and I'll be looking forward to

1 discussions with all of the various intervener groups
2 in the upcoming weeks to discuss what we are going to
3 be looking at filing for next time around. And in
4 addition, we do have a benchmarking workshop that you
5 should have all received invitations to, which is
6 scheduled for mid-November.

7 Thank you.

8 THE CHAIRPERSON: Great. Thanks everybody for their
9 time. Workshop is adjourned.

10 **(PROCEEDINGS ADJOURNED AT 12:08 P.M.)**

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I HEREBY CERTIFY THAT THE FORGOING
is a true and accurate transcript
of the proceedings herein, to the
best of my skill and ability.

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A.B. Lanigan, Court Reporter

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October 2nd, 2018

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