

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

**And**

**Re: British Columbia Utilities Commission**  
**Project No. 3698659/G-20-12**  
**Generic Cost of Capital Proceeding**

**Vancouver, B.C.**  
**December 14, 2012**

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**PROCEEDINGS**

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**BEFORE:**

<b>D. Cote,</b>	<b>Panel Chair / Commissioner</b>
<b>M. Harle,</b>	<b>Commissioner</b>
<b>L. O'Hara,</b>	<b>Commissioner</b>
<b>R. Giammarino</b>	<b>Commissioner</b>

**VOLUME 4**

G. FULTON, Q.C.	Commission Counsel
M. GHIKAS & T. AHMED	FortisBC Utilities
M. CHEESMAN	Corix Multi Utility Services Inc.
J. KENNEDY	Pacific Northern Gas Ltd. and Pacific Northern Gas (NE) Ltd.
J. CHRISTIAN	B.C. Hydro and Power Authority
R. HANSON	River District Energy
J. QUAIL	Canadian Office and Professional Employees' Union, Local 378
R. HOBBS	Industrial Customers Group
L. WORTH, E. KUNG &	
T. BRAITHWAITE	British Columbia Pensioners' and Seniors' Organization (BCPSO)
R.B. WALLACE, Q.C.	Association of Major Power Customers of B.C. (AMPC)
C. WEAVER & D. CRAIG	Commercial Energy Consumers of British Columbia

**œERRATA**

**Volume 2, December 12, 2012**

Index of Exhibit, B1-37	"Undertaking No. 1" should be "Undertaking No. 2"
Page 120, Line 23	"stating" should be "starting"
Page 132, Line 24	"customer is" should be "customer sees is"
Page 175, Line 6	"undertaking" should be "undertaken"
Page 177, Line 22	"different" should be "difference"
Page 213, Line 9	"of" should be "or"
Page 234, Line 20	"equally" should be "equal"
Page 239, Line 13	"depending on the" should be "depending on what the"
Page 243, Line 1	"produced" should be "reduced"
Page 244, Line 16	"it" should be "in"
Page 250, Line 16	"grade" should be "trade"
Page 257, Line 24	"AEM" should be "AAM"
Page 290, Line 9	"this machine" should be "Ms. McShane"
Page 299, Line 13	"on" should be "Min"
Page 299, Line 14	"MICRA" should be "MCRA"
	"SECRA" should be "CCRA"

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**CAARS**

**VANCOUVER, B.C.**

**December 14<sup>th</sup>, 2012**

**(PROCEEDINGS RESUMING AT 8:35 A.M.)**

THE CHAIRPERSON: Please be seated.

**FBCU - PANEL 2, EXPERT OPINION ON BENCHMARK FAIR RETURN:**

**KATHLEEN McSHANE, Resumed:**

THE CHAIRPERSON: Good morning.

MR. GHIKAS: Good morning, Mr. Chairman, Commissioners.

I just have a few -- two subject-to-checks that Ms. McShane took yesterday from Mr. Wallace, and she's prepared to speak to those now. So, I will deal with those. If you have your Volume 3 from yesterday, at page 429 is the first one.

And specifically at line 19, Mr. Wallace and Ms. McShane were having an exchange on the capital structure of ATCO Gas and how it had evolved over time. And if -- it starts at line 19. And Mr. Wallace was asking, with respect to 2004 and 2009, and over on the following page Ms. McShane indicated that she didn't recall the 2004 change.

Ms. McShane, could you just outline briefly your understanding of how the capital structure of ATCO Gas evolved?

MS. McSHANE: A: Yes. I went back and I looked at the decisions, and ATCO Gas's common equity ratio was 37

1           percent from at least 2000 until the first generic  
2           proceeding and decision in 2004. In 2004, the  
3           predecessor to the Alberta Utilities Commission raised  
4           the common equity ratio for ATCO Gas to 38 percent.  
5           And then in the generic proceeding that had the  
6           decision in 2009, they raised it to 39 percent for  
7           2008/09 and '10, and then they confirmed it in the  
8           2011 decision at 39 percent.

9 MR. GHIKAS: Thank you, Ms. McShane. And if you can go,  
10 then, to page 434, please. And just actually starting  
11 on the previous page, 433, Mr. Wallace asked at line  
12 23 in 2009 in Ontario, both Union Gas and EGDI had  
13 their 36 percent common equity ratios maintained, and  
14 you indicated over on the following page at line 2  
15 that there wasn't a case on equity ratio for the gas  
16 utilities in Ontario in 2009. And so on there.

17                       Can you please clarify your understanding  
18 of what was on the agenda in the 2009 -- sorry, with  
19 respect to the capital structure of EGDI?

20 MS. McSHANE: A: The 2009 proceeding was what the  
21 Ontario Energy Board referred to as a consultative  
22 process. And out of which they issued a cost of  
23 capital policy report. On the issues list was the  
24 question, are the capital structures appropriate? But  
25 -- and there was some evidence filed as to capital  
26 structure for the gas distribution utilities. But the

1 OEB's decision stated that the capital structure was  
2 not a focus of that proceeding, and determined that  
3 its policy as regards the capital structures of the  
4 gas utilities would continue, and that is that the  
5 capital structures would be dealt with on a case-by-  
6 case basis.

7 MR. GHIKAS: Okay. At line 9, Mr. Wallace asked you --  
8 my understanding is that on the issues list at that  
9 time there was evidence tendered but that there was no  
10 change made with respect to the 36 percent. So can  
11 you just -- you indicated you would check that. Was  
12 there a change made with respect to the capital  
13 structure?

14 MS. McSHANE: A: No, there was no change made. But  
15 there is absolutely no reference to capital structure  
16 in the policy -- cost of capital policy report at all.

17 MR. GHIKAS: Thank you. Thanks, Ms. McShane. Thank you,  
18 Mr. Chairman.

19 THE CHAIRPERSON: Thank you.

20 **Proceeding Time 8:40 a.m. T2**

21 **CROSS-EXAMINATION BY MR. WALLACE (Continued):**

22 MR. WALLACE: Q: Ms. McShane, I just want to go back to  
23 one of the documents we were discussing yesterday, and  
24 it's with respect to standard deviations and we were  
25 looking at Schedule 11 and when we went through that I  
26 think you confirmed for me that you estimate that the

1           -- I'd better use the right words. That when you  
2           estimated the standard deviation for your utilities,  
3           you estimated at 4.07 percent, which was 65 percent of  
4           the average of all TSX subsectors, or 72 percent of  
5           the median?

6 MS. McSHANE:    A:    That's right.

7 MR. WALLACE:    Q:    And I went on to ask you that last  
8           year before the Alberta Commission you were asked to  
9           measure the riskiness of the Long Canada Bond relative  
10          to the Canadian market in an Information Request CAPP  
11          McShane ROE 17(d), and do you recall our discussion  
12          there?

13 MS. McSHANE:    A:    I do.

14 MR. WALLACE:    Q:    And at that point I asked you if your  
15          estimate was that the risk, the Long Canada Bond was  
16          35 to 38 percent as risky as the TSX?

17 MS. McSHANE:    A:    You did ask me that, yes.

18 MR. WALLACE:    Q:    And you at that point said you'd like  
19          to see the IR response. I gather you've now had an  
20          opportunity to see that response?

21 MS. McSHANE:    A:    I have.

22 MR. WALLACE:    Q:    And do you agree that your estimate of  
23          the Long Canada Bond was 35 to 38 percent as risky as  
24          the TSX?

25 MS. McSHANE:    A:    What the response to the question was  
26          was that the relative risk factor for government bonds

1 is in the approximate range of 0.1 of bond income  
2 returns over the periods for which the data were  
3 provided, and 0.4 which was the relative standard  
4 deviation of bond total returns. So the two, if --  
5 you had passed out a -- I don't know if we could look  
6 at this piece of paper that you had provided me this  
7 morning, it might be clearer.

8 MR. WALLACE: Q: Okay, then I think I should make it  
9 available to everybody in the room.

10 Mr. Chairman, I think this should probably  
11 be marked as an exhibit. It, I'm told, would be  
12 Exhibit C6-18.

13 THE HEARING OFFICER: C6-18.

14 **(DOCUMENT "AUC 2011 GCOC IR RESPONSES - CAPP-MCSHANE-**  
15 **ROE ATTACH 17(d)(2).XIX, 1 OF 1", MARKED EXHIBIT C6-**  
16 **18)**

17 MR. WALLACE: Q: Okay, Ms. McShane, you were going to  
18 point out something here.

19 MS. MCSHANE: A: So on this table, which was an  
20 attachment to an information request which I was asked  
21 to look at the Long Canada Bond in the same fashion as  
22 I had looked at the utility market returns, I looked  
23 at the standard deviation of the bond income return as  
24 a percent of the ten sector indices, and you can see  
25 over to the very right column, just in the section at  
26 the bottom of the table, ratios of standard deviations

1 for the bond income return, the ratio of standard  
2 deviations was approximately .1. And then when it was  
3 done using the total return it was approximately, as  
4 you said, .38 to .41.

5 MR. WALLACE: Q: All right. And isn't that the  
6 appropriate return to use, the 38 -- or the  
7 appropriate measure of riskiness over the long term?

8 MS. McSHANE: A: Not within the context of the capital  
9 asset pricing model where we're trying to see what the  
10 premium over the risk-free rate is, and so that the  
11 bond income return is the more appropriate measure of  
12 the risk-free rate.

13 **Proceeding Time 8:46 a.m. T3**

14 MR. WALLACE: Q: Well, I'm sorry, but you were asked, I  
15 think you said, to calculate the riskiness of the  
16 long-term Canada Bond as total return as a comparison  
17 to the TSX over -- in the same manner that you had  
18 calculated it in Schedule 11 with respect to the sub-  
19 indices for the utilities.

20 MS. McSHANE: A: The question was, can I provide the  
21 same exact data for the return on the Long Canada Bond  
22 and similarly calculate the ratio to the mean in the  
23 median, which I did because that was what was asked of  
24 me. And I also provided it on an income return basis.

25 MR. WALLACE: Q: Fair enough, but can we conclude that  
26 incrementally over the Long Canada Bond, the increased

1 risk involved in investing in the utilities is going  
2 from the 35 to 38 percent of the TSX to the 65 to 72  
3 percent of the TSX that we discussed yesterday?

4 MS. McSHANE: A: Well, I guess it depends what they're  
5 trying to measure. What I was trying to do initially  
6 was to develop a relative risk adjustment in the  
7 context of the capital asset pricing model which looks  
8 at the premium over a risk-free rate, and so I was  
9 using the bond income return as the best measure of a  
10 risk-free rate. So in that context, if one were going  
11 to do this type of calculation, it should be done on  
12 the basis of the income return.

13 MR. WALLACE: Q: I suggest to you that surely, and we  
14 went through it yesterday and I won't go through it  
15 again, but that the Long Canadas is not a risk-free  
16 rate, and you agreed with that.

17 MS. McSHANE: A: I agreed that it's not a risk-free  
18 rate. But the objective is in the CAPM to develop a  
19 premium in relation to a risk-free rate. So therefore  
20 you would need to come up with the best measure of the  
21 risk-free rate.

22 MR. WALLACE: Q: And isn't the best measure of the  
23 risk-free -- or the increased risk the difference  
24 between the risk level of the Long Canadas and the  
25 risk level of the Utilities Index?

26 MS. McSHANE: A: It depends what you're trying to

1           measure. If you're trying to measure the incremental  
2           risk over the Government of Canada Bond as opposed to  
3           a notional risk-free rate, then yes, I agree with you.

4 MR. WALLACE:   Q:   And you would agree with me then that  
5           incrementally we have an increase in utility risk of  
6           about 30 to 34 percent of the TSX when we see the TSX  
7           ratio go from the 35-38 -- nobody's going to  
8           understand that. I think I'll leave it where I am. I  
9           think we understand the numbers. Thank you.

10                   I'd like to then turn back to DCF  
11           estimates, and yesterday we discussed them at some  
12           point. I'd like you now to turn to page -- well, and  
13           yesterday I think you pointed out to me that you used  
14           two methods for estimating growth. One is of  
15           analysts' forecasts and the other is a sustainable  
16           growth method?

17 MS. McSHANE:   A:   I don't think we started that  
18           discussion.

19 MR. WALLACE:   Q:   Okay. I thought we had got to the  
20           point that we agreed there were two methods, but we  
21           hadn't gone further. I'm not following up in the  
22           sense that I'm going on a separate branch of DCF than  
23           what I did yesterday.

24 MS. McSHANE:   A:   Oh, well, what we started -- what I  
25           thought we were talking about yesterday was the fact  
26           that I have a discounted cash flow based risk premium

1 test which we discussed. And then in addition to that  
2 I have discounted cash flow tests.

3 **Proceeding Time 8:51 a.m. T04**

4 MR. WALLACE: Q: Okay. And we'll go to your DCF test  
5 now, then. I think that's right.

6 MS. McSHANE: A: Okay.

7 MR. WALLACE: Q: Thank you for the clarification. And  
8 your DCF estimates involve directly taking the  
9 expected dividend yield and then adding growth? And  
10 you used two methods for estimating growth. One is  
11 the use of analyst forecasts, and the other is the  
12 sustainable growth method that Dr. Booth also uses in  
13 his Appendix D.

14 MS. McSHANE: A: I have three different approaches.  
15 One is to use analysts' earnings growth forecasts.  
16 One is to use estimated sustainable growth, and the  
17 third is a three-stage model which incorporates  
18 analyst growth rates and a long-term estimate of  
19 growth based on long-term -- forecast long-term GDP  
20 growth.

21 MR. WALLACE: Q: Okay. Can we turn to page 113 of your  
22 evidence, please?

23 MS. McSHANE: A: I have that.

24 MR. WALLACE: Q: And you use analysts' growth forecasts  
25 to provide a DCF estimate of 9.3 percent?

26 MS. McSHANE: A: For the U.S. utility sample, yes.

1 MR. WALLACE: Q: But that's Table 30 on page 113.

2 MS. McSHANE: A: That's correct.

3 MR. WALLACE: Q: Thank you. And that -- that assumes  
4 the analyst's growth goes on forever, whereas the  
5 three-stage model assumes that it gradually reduces to  
6 that of the GDP.

7 MS. McSHANE: A: That's correct.

8 MR. WALLACE: Q: And that's why the three-stage  
9 estimate is slightly lower at 9.2 percent.

10 MS. McSHANE: A: Because the GDP growth rate was  
11 slightly lower than the average of the analysts'  
12 forecasts, correct.

13 MR. WALLACE: Q: And the sustainable growth forecast  
14 assumes reinvestment of retained earnings at the  
15 forecast ROE plus an amount that comes out about by  
16 selling stock at a market-to-book ratio over 1?

17 MS. McSHANE: A: That's right.

18 MR. WALLACE: Q: And if the utility traded at a market  
19 to book of 1, this latter amount would not exist.

20 MS. McSHANE: A: That's true.

21 MR. WALLACE: Q: So if we could turn, then, to Schedule  
22 19, where you have the analyst's growth estimates.

23 MS. McSHANE: A: I have that.

24 MR. WALLACE: Q: Thank you. And if we -- I'd like to  
25 look at the variability within them. If you look at  
26 the first one, AGL Resources Inc., you see that the

1 growth forecasts range from 4 percent for Bloomberg up  
2 to 5.5 percent for Value Line?

3 MS. McSHANE: A: Correct.

4 MR. WALLACE: Q: Why is there such a large discrepancy  
5 between these estimates?

6 MS. McSHANE: A: Different number of the analysts.  
7 Value Line is a single analyst. The other ones are a  
8 number of analysts.

9 MR. WALLACE: Q: Okay. And if we look at the second  
10 company, the range is from 5.8 to 6.2 percent.

11 MS. McSHANE: A: Yes.

12 MR. WALLACE: Q: And again, the analysts are very  
13 different. If you look for Piedmont, for example, the  
14 range is from 2.5 to 5.2 percent.

15 MS. McSHANE: A: Right. Again, I mean, the Value Line  
16 is a single analyst, and the Bloomberg writers and  
17 Sachs are the mean of a number of analysts.

18 MR. WALLACE: Q: Okay. Now, obviously there is a  
19 variation of 100 percent there from Value Line to  
20 Reuters. Which do you think is correct?

21 MS. McSHANE: A: Which do I think is correct?

22 MR. WALLACE: Q: Yeah.

23 MS. McSHANE: A: I don't have a view on which is  
24 correct. These are different analysts' anticipated  
25 growth rates, which investors would look at. If I had  
26 to say which one would I tend to put more emphasis on,

1 if -- you know, if I were asked to choose, I would say  
2 the ones, you know, the ones that had multiple  
3 analysts involved.

4 MR. WALLACE: Q: Okay. And the result of the variation  
5 is significant, if you were calculating the DCF based  
6 on one. You could -- for example, on Piedmont, range  
7 in a DCF from 6.6 to 9.3.

8 MS. McSHANE: A: If you just used one of those alone,  
9 that's true. You would have variability. That's why  
10 we try to use samples, not single companies, because  
11 there will be, you know, individual companies that --  
12 where the growth rate doesn't necessarily match the  
13 dividend yield.

14 **Proceeding Time 8:56 a.m. T14**

15 MR. WALLACE: Q: Well, given that variability, how is  
16 this process any more accurate than using betas?

17 MS. McSHANE: A: I'm not sure what you mean, how is it  
18 any more accurate? I mean it's a different  
19 methodology. It gives a different perspective.

20 MR. WALLACE: Q: And subject to at least the same  
21 variability.

22 MS. McSHANE: A: Do you mean by variability it's  
23 subject to similar range of -- I don't know what the  
24 word is. I guess you'd think of it in terms of a  
25 possible range of estimates from the data that you  
26 have. So I mean there is a possible range of estimate

1           that comes out of any test.

2 MR. WALLACE:   Q:   Okay.  In terms of these forecasts do  
3           you have any evidence that they're not optimistic  
4           forecasts?

5 MS. McSHANE:   A:   I looked at that for these companies  
6           to see whether there is any evidence of optimism, and  
7           I concluded that there was not.

8 MR. WALLACE:   Q:   Okay.  Now, before the AUC last year,  
9           you were asked in CAPP Information Request McShane ROE  
10          21(i) to provide the growth rate in the U.S. GDP and  
11          earnings and dividends for your U.S. utilities from  
12          1990 to 2010.  Do you recall that?

13 MS. McSHANE:   A:   No.

14 MR. WALLACE:   Q:   You've seen the response?

15 MS. McSHANE:   A:   I see a table.

16 MR. WALLACE:   Q:   Okay.

17 MS. McSHANE:   A:   I don't have the question.

18 MR. WALLACE:   Q:   Okay, was the table provided by you?

19 MS. McSHANE:   A:   It looks like something I would have  
20          provided but I don't know what the question was, and  
21          so I don't quite have the context.

22 MR. WALLACE:   Q:   Okay.  I would -- what I'd like to go  
23          through is ask you the questions with respect to this  
24          table, and if you find that's in any way inappropriate  
25          when you do see the full question, I would suggest  
26          that you can come back and augment it in any way you

1 see. Would that be appropriate?

2 MS. McSHANE: A: That's fine.

3 MR. WALLACE: Okay. I think, Mr. Chairman, I should also  
4 distribute that table.

5 THE CHAIRPERSON: Thank you.

6 MR. WALLACE: Mr. Bemister seems to disappear every time  
7 I have a table. Mr. Chairman, that should be marked  
8 as the next exhibit, which I believe is C6-19.

9 THE CHAIRPERSON: Thank you.

10 **(DOCUMENT "AUC 2011 GCOC IR RESPONSES - CAPP-MCSHANE-**  
11 **ROE ATTACH 21(1).XIS, 1 OF 1", MARKED EXHIBIT C6-19)**

12 MR. WALLACE: Q: Ms. McShane, I understand this table  
13 was prepared by you in response to an IR. As I've  
14 said, if you find out differently and wish to correct  
15 the record later, that is fine.

16 This table apparently shows your sample.  
17 Do you recognize it there for Consolidated Edison and  
18 going down from the AUC proceeding?

19 MS. McSHANE: A: It looks familiar, yes.

20 MR. WALLACE: Q: Thank you, and it shows the growth in  
21 -- or the U.S. GDP over the period 1990 to 2010?

22 MS. McSHANE: A: I guess that's what's at the bottom.

23 MR. WALLACE: Q: And it shows that as compound 4.7 and  
24 arithmetic 4.8 percent.

25 MS. McSHANE: A: That's what's on the table, yes.

26 MR. WALLACE: Q: And at the same time it shows the

1 earnings of your U.S. utilities grew by 4 percent, and  
2 dividends by 2.7 percent?

3 MS. McSHANE: A: That's what that shows for that  
4 period, so you've got the -- in the compound growth  
5 rate, for example, it's dependent on the beginning  
6 year and the end year.

7 MR. WALLACE: Q: Yes, I understand that, but this is a  
8 20-year period?

9 MS. McSHANE: A: Yes.

10 MR. WALLACE: Q: And so the historic record for your  
11 U.S. utilities over that period was that they were not  
12 able to grow their dividends anywhere close to the  
13 growth rate in the GDP?

14 **Proceeding Time 9:01 a.m. T06**

15 MS. McSHANE: A: No, they hadn't grown their dividends  
16 as fast as the GDP. The earnings per share numbers  
17 and the book value for share numbers were closer.

18 MR. WALLACE: Q: Closer but, again, below.

19 MS. McSHANE: A: Yes, they were slightly below.

20 MR. WALLACE: Q: And so in your Schedule 19, analysts'  
21 forecasts, you have an average growth rate of 4.9 to 5  
22 percent for DCF equity cost at 9.3.

23 MS. McSHANE: A: I do.

24 MR. WALLACE: Q: And if instead we use the actual  
25 dividend growth rate achieved under similar GDP growth  
26 rates, we would use 2.7? And get an equity cost

1 estimate of 7.1 percent?

2 MS. McSHANE: A: I wouldn't do that. I mean, I would  
3 use -- I wouldn't use the historic dividend for share  
4 growth rate as a measure of investor expectations.

5 MR. WALLACE: Q: Okay. But if you adjust your -- if  
6 you were to reduce your investor expectations going  
7 forward by the amount it appears they have fallen  
8 short of the GDP here, you would be substantially  
9 lower.

10 MS. McSHANE: A: If you're talking about just the  
11 dividends per share.

12 MR. WALLACE: Q: Well, let's put it simpler. Isn't  
13 this evidence that shows that the analysts' estimates  
14 are optimistic? That the utilities that you use do  
15 not manage to keep up with the GDP over a long period  
16 of time?

17 MS. McSHANE: A: They did not over this period, that's  
18 true. I mean, and there are good reasons that that  
19 wouldn't have been the case, because we did have a  
20 decline in interest rates, a very major secular  
21 decline, which would have meant that you had declining  
22 allowed returns, which would have made it very  
23 difficult over this period to have kept up with GDP  
24 growth rate, just because of the specific situation.

25 MR. WALLACE: Q: Okay. And the historic record, again,  
26 to put it simply, is 2.7 percent growth, and the

1 analysts that you are using are forecasting almost  
2 twice as much going forward.

3 MS. McSHANE: A: But those are earnings. Not  
4 dividends.

5 MR. WALLACE: Q: Okay, thank you. And we agree that  
6 the investors receive the dividends.

7 MS. McSHANE: A: Investors receive the dividends and  
8 capital appreciation, which comes from earnings.

9 MR. WALLACE: Q: Okay. During the hearing last year  
10 before the Alberta Commission, they came to a  
11 conclusion and I wish to put it on this issue, in  
12 paragraph 86, if you have that decision.

13 MS. McSHANE: A: I do not.

14 MR. WALLACE: Q: Oh. The 2011 decision? I can --  
15 you're familiar with that decision?

16 MS. McSHANE: A: I am.

17 MR. WALLACE: Q: And at paragraph 86 on page 18, if you  
18 could turn to that.

19 MS. McSHANE: A: Sorry, what page?

20 MR. WALLACE: Q: It's page 18, paragraph 86.

21 MS. McSHANE: A: Oh, 18. Sorry, I was on page 86. I  
22 have that.

23 MR. WALLACE: Q: And in the decision the Commission  
24 stated:

25 "In 2009, the Commission expressed concern  
26 about potential upward bias in analysts'

1 growth estimates. However, Ms. McShane  
2 argued that as long as investors believed  
3 the optimistic forecast, they would price  
4 the securities lower, resulting in a lower  
5 dividend yield, and the DCF test would still  
6 be an unbiased estimate of investor-required  
7 returns. She indicated that this  
8 proposition had been successfully tested and  
9 described three tests, including the fact  
10 that such growth estimates have averaged  
11 less than GDP growth."

12 And that's your position in this proceeding?

13 **Proceeding Time 9:06 a.m. T7**

14 MS. McSHANE: A: That there were three tests and they  
15 described one, and the Commission in Alberta said from  
16 their perspective that didn't resolve the issue. One  
17 of the tests was -- which they didn't refer to here,  
18 was the comparison of the analysts' growth rates from  
19 sources that some have indicated might have conflict  
20 of interest in comparison of those to Value Line, to  
21 see whether there was any indication of bias in those.  
22 That was the particular test that this Commission  
23 looked at last time and was convinced that there was  
24 no evidence of analyst bias or optimism.

25 MR. WALLACE: Q: Okay, I understand. Okay, thank you.  
26 I'd like to go back. However, I should have broken my

1 question up a little more, I guess. The text of the  
2 decision is:

3 "However, Ms. McShane argued that as long as  
4 investors believed the optimistic forecasts,  
5 they would price the securities lower,  
6 resulting in a lower dividend yield and the  
7 DCF test would still be an unbiased estimate  
8 of investor required returns."

9 I understand that's your evidence in this case also.

10 MS. McSHANE: A: I still hold that position, yes.

11 MR. WALLACE: Q: Okay.

12 MS. McSHANE: A: But that wasn't the basis for my  
13 conclusion that they weren't optimistic.

14 MR. WALLACE: Q: And they go on to say:

15 "She indicated that this proposition had  
16 been successfully tested and described three  
17 tests, including the fact that such growth  
18 estimates have averaged less than GDP  
19 growth."

20 And that's similar in this case.

21 MS. McSHANE: A: Yes.

22 MR. WALLACE: Q: And then the Commission stated:

23 "In the Commission's view this line of  
24 reasoning..."

25 and you went to it,

26 "...does not resolve the issues because there

1           is no evidence that the investors believe  
2           optimistic forecasts. Therefore the  
3           Commission remains concerned with the  
4           potential upward bias in analysts' growth  
5           estimates."

6 MS. McSHANE:    A:    I see that.

7 MR. WALLACE:    Q:    That was their conclusion after  
8           hearing similar evidence.

9 MS. McSHANE:    A:    Sorry?

10 MR. WALLACE:    Q:    That was their conclusion after  
11           hearing similar evidence.

12 MS. McSHANE:    A:    That was their conclusion.

13 MR. WALLACE:    Q:    Thank you.

14                    I'd like to turn to just a few loose ends  
15           then that I have. We've referred to the 2011 decision  
16           and if you keep it handy for a moment. Can you turn  
17           to paragraph 63 on page 13 and we're looking there at  
18           what the Commission had to say about the CAPM  
19           methodology?

20 MS. McSHANE:    A:    I see that.

21 MR. WALLACE:    Q:    And the Commission stated:

22                    "The utilities also noted that Dr.  
23           Fernandez, whose work had been cited by Dr.  
24           Booth, had provided evidence that CAPM does  
25           not work and had concluded that the  
26           historical betas are useless to estimate

1 expected return of companies.”

2 And I think you are familiar with that work also?

3 MS. McSHANE: A: I am.

4 MR. WALLACE: Q: And the Commission went on to say:

5 “However, the Commission continues to hold  
6 the view that CAPM is a theoretically sound  
7 and useful tool, among others, for  
8 estimating ROE.”

9 So the Commission heard the testimony about  
10 the Fernandez article criticizing CAPM, and still went  
11 on to give CAPM a sound endorsement.

12 MS. McSHANE: A: They said, as you correctly read, that  
13 they held -- continue to hold the view that it's  
14 theoretically sound, a theoretically sound and useful  
15 tool, among others, for estimating ROE.

16 MR. WALLACE: Q: Thank you.

17 Can I now turn to your schedules, first  
18 Schedule 2, page 1, which is entitled Trend and  
19 Interest Rates, Dividend Yields, and Out -- I'm having  
20 trouble reading the small size here -- Outstanding  
21 Bond Yields.

22 MS. McSHANE: A: I have that. Goodness the numbers are  
23 small.

24 MR. WALLACE: Q: Okay, Schedule 2, page 1 of 2. And  
25 what I'm interested in looking at is the yield data  
26 and I'd like to go through the differences between the

1 U.S. Long Canada yield and the U.S. long treasury  
2 yield? Between -- yeah. In June, 2012, we have 250  
3 -- 2.5 percent, I'm sorry, for the Canadas.

4 **Proceeding Time 9:12 a.m. T08**

5 MS. McSHANE: A: Yes.

6 MR. WALLACE: Q: And 2.99 percent for the U.S.

7 MS. McSHANE: A: For the 30-year, yes.

8 MR. WALLACE: Q: And so the Canada is basically 50  
9 basis points lower -- 49 basis points.

10 MS. McSHANE: A: On the 30-year. On the 10-year, the  
11 Canada is slightly higher than the U.S. And on other  
12 types of long-term rates, they are very, very similar.  
13 A-rated corporates, triple-B rated corporates.

14 MR. WALLACE: Q: But you use 30 for cost of capital  
15 purposes generally?

16 MS. McSHANE: A: For the CAPM. And for this premium  
17 test, yes.

18 MR. WALLACE: Q: And there is a 50 basis -- 49 basis  
19 point difference there.

20 MS. McSHANE: A: Right. But I don't use the U.S. long-  
21 term treasury yield, I use the long Canada.

22 MR. WALLACE: Q: No, and I think the only point I'm  
23 making is that for similar bonds, similar duration,  
24 there is a lower yield in Canada than there is in the  
25 U.S., in June, 2012.

26 MS. McSHANE: A: For the 30-year Canada. Not for all

1       bonds across different types. The triple-B corporates  
2       have been approximately the same, the A corporates  
3       long-term have been approximately the same.

4 MR. WALLACE:    Q:    Okay.

5 MS. McSHANE:    A:    Ten years have been -- ten-year Canada  
6       has been lower than the U.S.

7 MR. WALLACE:    Q:    I understand that. I come back to the  
8       fact that we're using 30 years for ROE purposes.

9 MS. McSHANE:    A:    For applying a test. Correct.

10 MR. WALLACE:    Q:    Yes. And in 2011, the Canadas are 60  
11       basis points lower?

12 MS. McSHANE:    A:    The 30-year?

13 MR. WALLACE:    Q:    Yes.

14 MS. McSHANE:    A:    I think that's probably true.

15 MR. WALLACE:    Q:    Okay. And in 2010, I have 47 basis  
16       points lower, for 30 years.

17 MS. McSHANE:    A:    On the 30 years. Yeah. The ten-years  
18       have been pretty much consistently either the same or  
19       slightly higher in Canada.

20 MR. WALLACE:    Q:    Okay. And in 30 years, for 2009, it's  
21       25 basis points lower.

22 MS. McSHANE:    A:    Oh, that could be true.

23 MR. WALLACE:    Q:    And when I look at this table, I have  
24       to go all the way back to 2004 to get higher rates in  
25       Canada on the 30-years.

26 MS. McSHANE:    A:    That could be correct.

1 MR. WALLACE: Q: Now, if we check the A utility bonds,  
2 which is column 12, between Canada and the U.S., we  
3 have -- comparing column 12 to column 9, for June,  
4 2012, we have 4.26 in the U.S. and 4.09 in Canada.  
5 So, Canada A bonds were -- utility bonds were yielding  
6 17 basis points less.

7 MS. McSHANE: A: That looks right.

8 MR. WALLACE: Q: And in 2011 and 2010, the difference  
9 was 18 basis points.

10 MS. McSHANE: A: Yes.

11 MR. WALLACE: Q: And in 2009, yields were 11 basis  
12 points higher in Canada.

13 MS. McSHANE: A: In Canada?

14 MR. WALLACE: Q: Yes. It reversed there.

15 MS. McSHANE: A: Okay. I see that.

16 MR. WALLACE: Q: 2008, 25 basis points lower in Canada.

17 MS. McSHANE: A: That looks right.

18 MR. WALLACE: Q: And similarly 2007, 54 basis points  
19 lower in Canada.

20 MS. McSHANE: A: That looks right.

21 MR. WALLACE: Q: And again, by my calculations, you  
22 have to go back to 2003 to get a higher utility A bond  
23 yield in Canada before they start to get lower again.

24 MS. McSHANE: A: Yeah. The differences recently  
25 haven't been very large.

26 MR. WALLACE: Q: And so my conclusion from this A bond

1 yield data is that Canadian A-rated utility bonds have  
2 consistently sold on lower yields than U.S. A rated  
3 utility bonds. That is, the market regards them as  
4 lower-risk. Is that right?

5 **Proceeding Time 9:17 a.m. T9**

6 MS. McSHANE: A: I'm not sure you can conclude that,  
7 because you do have to look at what the underlying  
8 yield is in the country. So if they're being priced  
9 off a 30-year U.S. Government Bond, and the long-term  
10 U.S. Government Bond is slightly higher than -- you  
11 know, that would be taken into account as well. I  
12 think you also have to look at the spread between the  
13 30-year Treasury and the A Utility Bond to see whether  
14 they are viewed as a lower risk or not.

15 MR. WALLACE: Q: But the fact is that the investors  
16 were satisfied with lower returns on utility bonds in  
17 Canada than they were in the U.S.

18 MS. McSHANE: A: Slightly, yes.

19 MR. WALLACE: Q: Thank you.

20 One final area of questions with respect to  
21 the automated adjustment mechanism. In 2008, Hydro  
22 One requested a fair ROE determined by the Ontario  
23 Board, and you -- with an automated adjustment  
24 mechanism, and you supported that request?

25 MS. McSHANE: A: I didn't represent Hydro One in 2008.

26 MR. WALLACE: Q: Okay, thank you. We appear to be in

1 error there. And in 2007, with Union and EGDI -- or  
2 in 2007 Union and EGDI entered into a five-year PBR  
3 agreement which you have mentioned previously?

4 MS. McSHANE: A: I believe they did, yes.

5 MR. WALLACE: Q: And that had a -- that was a voluntary  
6 settlement?

7 MS. McSHANE: A: Yes, which would have involved a  
8 number of factors, including the allowed return.

9 MR. WALLACE: Q: And the allowed return was then based  
10 on the Ontario Board's ROE formula?

11 MS. McSHANE: A: I believe that's correct.

12 MR. WALLACE: Q: So companies, in the past at least,  
13 have been quite willing to enter into automated  
14 adjustment formulas.

15 MS. McSHANE: A: Well, they didn't enter into an  
16 automatic adjustment formula. When they entered into  
17 the PBR -- except very indirectly, I guess, they  
18 accepted in their base rates the ROE that was produced  
19 by the formula, and that base ROE stayed in place for  
20 the term of the PBR. They also were indirectly  
21 subject to the formula over the period of the PBR by  
22 virtue of the fact that they had an earning sharing  
23 mechanism that was based off of what the automatic  
24 adjustment mechanism would have produced in each year.

25 MR. WALLACE: Q: I'm going to go back to my question on  
26 Hydro One that I did -- in 2008 did Ontario Power

1           Generation request a fair return on equity determined  
2           by the OEB ROE formula?

3 MS. McSHANE:    A:    No.  They requested a fair ROE based  
4           on evidence supporting that.  They didn't ask for the  
5           ROE produced by the formula.  I've forgotten what the  
6           requested ROE was, but it was something significantly  
7           higher than what underpin the formula results.  But  
8           they did request that then the board apply the formula  
9           to their requested return.

10 MR. WALLACE:    Q:    Okay, I think that's the key element  
11           and thank you again for your precision.  They did  
12           request a fair ROE and they did request that the  
13           formula be applied going forward.

14 MS. McSHANE:    A:    Correct.

15 MR. WALLACE:    Q:    And you testified on their behalf at  
16           that time?

17 MS. McSHANE:    A:    I did, for Ontario Power Generation,  
18           correct.

19 MR. WALLACE:    Q:    Yes.  And your supported Ontario Power  
20           Generation in that request?

21 MS. McSHANE:    A:    I did.

22 MR. WALLACE:    Q:    Thank you.

23                            That completes my questions for this panel.  
24           Thank you.  Thank you, Ms. McShane.

25 THE CHAIRPERSON:    Thank you, Mr. Wallace.

26 MR. WALLACE:    Actually I should be careful.  That

1 completes my non-confidential questions.

2 THE CHAIRPERSON: I understand, yes.

3 MR. FULTON: British Columbia Pensioners' and Seniors'  
4 Organization.

5 THE CHAIRPERSON: Thank you.

6 **CROSS-EXAMINATION BY MS. WORTH:**

7 MS. WORTH: Q: Good morning, Mr. Chair, members of the  
8 Panel, Ms. McShane.

9 MS. McSHANE: A: Good morning.

10 **Proceeding Time 9:22 a.m. T10**

11 MS. WORTH: A: I'm sure it comes as no surprise that  
12 the volume of my cross-examination is going to be  
13 somewhat less than Mr. Wallace, and actually far less  
14 than I had originally planned. Mr. Wallace has amply  
15 covered a lot of the areas I was intending to, so I  
16 will be rather brief this morning.

17 I'd like to just begin by asking for a  
18 clarification. When I was reading through your  
19 evidence and the IRs, I didn't see an overt statement  
20 indicating whether you were considering FEI as a pure-  
21 play gas distribution utility. Would you mind putting  
22 that on the record right now?

23 MS. McSHANE: A: Well, I would consider FEI to be, for  
24 all intents and purposes, a pure-play gas utility. I  
25 think the company on Wednesday very comprehensively  
26 described their operations. For my purposes, what

1           we're trying to do is to set the return that applies  
2           to gas distribution operations. And that is what FEI  
3           is, a gas distributor.

4 MS. WORTH:   Q:   Okay. So, all of the considerations  
5           that went into the evidence that you put forward  
6           regarding the appropriate capital structure and the  
7           ROE was based on your assumption, and your reliance  
8           upon, FEI's pure-play gas distribution utility  
9           activities. Is that correct?

10 MS. McSHANE:   A:   That's correct.

11 MS. WORTH:   Q:   Okay. Can you explain, then, why on  
12           page 55 of your evidence you refer to FEI activities  
13           focusing on new initiatives, subject to regulatory  
14           oversight entailing more frequent, protracted, and  
15           contentious proceedings as a regulatory risk?

16 MS. McSHANE:   A:   I think -- I tried to clarify what I  
17           had in mind in response to BCUC IR 45. Yes, which  
18           would be B1-20. And the response to that question --  
19           sorry? Oh, it's number 45, and it's page 105 in B1-  
20           20.

21                           And my real objective was to indicate that  
22           there is a higher uncertainty because of the effective  
23           energy policies, and that FEI's initiatives are being  
24           developed to address its declines in throughput in its  
25           distribution business. Which those efforts are in  
26           large part driven by the effects of energy policy.

1 And those areas where there is increasing complexity  
2 and uncertainty in the regulatory environment.

3 MS. WORTH: Q: Okay. Now, on Wednesday there was an  
4 exchange between Mr. Dall'Antonia and Mr. Hobbs, where  
5 Mr. Dall'Antonia confirmed that the utilities'  
6 evidence in Appendix H, in regards to regulatory risk,  
7 and in particular Mr. Dall'Antonia said that the  
8 greatest one that they faced, greater than supply,  
9 price, or volatility on the gas supply side, was  
10 regulatory risk. Do you agree with that?

11 MS. McSHANE: A: Well, I think what he was trying to  
12 say is that when you look at a regulated business, it  
13 truly is regulation that has the ability to either  
14 mitigate or enhance the fundamental risks that the  
15 utility faces. So, I agree with him that the  
16 regulatory framework and regulatory risk is the most  
17 important for a regulated company.

18 **Proceeding Time 9:27 a.m. T11**

19 MS. WORTH: Q: Okay. More specifically, Mr.  
20 Dall'Antonia went on to say that the regulator can  
21 have the single biggest impact by denying a fair  
22 return. And I gather that's what you're indicating in  
23 your response to my last question.

24 MS. McSHANE: A: Well, not specifically. I mean,  
25 that's certainly an element of it. Maybe he meant it  
26 in the broader sense, and I just don't recall, of the

1 Commission regulator being able to take decisions that  
2 would make it more difficult for a utility to earn a  
3 reasonable return, rather than the Commission actually  
4 being able to set a return that's lower than fair.  
5 But in the broadest sense, I would agree that a  
6 regulator does have the -- has the most influence, I  
7 guess, on the utility's ability to earn a fair return  
8 and achieve the return of capital.

9 MS. WORTH: Q: So during that exchange between Mr.  
10 Hobbs and Mr. Dall'Antonia, Mr. Dall'Antonia actually  
11 said that part of his assessment of the risk  
12 associated with regulation was that the utility could  
13 go believing that the fair return is a 10 percent ROE  
14 and a decision could come back at 6. So, you don't  
15 see as a material risk in a utility operating and it's  
16 something that needs to be taken into consideration  
17 when structuring their capital and their ROE?

18 In other words, you don't see that there is  
19 a significant risk that a regulator would come back  
20 with a decision that was so significantly disconnected  
21 from what was the fair ROE in the utility's  
22 assessment.

23 MS. McSHANE: A: Well, what -- obviously there are  
24 degrees, right? I would say that there is some risk  
25 that the regulator will allow a return that's lower  
26 than fair. I mean, I think the risk that there will

1           be a disconnect of the size that you mentioned is  
2           probably relatively small. But I think it's broader  
3           than just saying that there is a risk that the -- you  
4           know, the company believes it should be 10 percent,  
5           and the Commission or the regulator comes back and  
6           says it should be 6. I mean, I think it's something  
7           that in terms of regulatory risk, it's what decisions  
8           are taken that either enhance or make it more  
9           difficult for a utility to earn a return that's fair  
10          and reasonable. And to be able to recover their  
11          capital.

12 MS. WORTH:   Q:   So it's your evidence that there is  
13           actually no significant risk that this or another BCUC  
14           panel will refuse to approve a fair and reasonable  
15           return for Fortis. Is that correct?

16 MS. McSHANE:   A:   I always proceed on the assumption  
17           that I -- you would expect the regulator to approve  
18           what's fair and reasonable. There is risk that the  
19           return will be lower than either -- than investors  
20           expect.

21 MS. WORTH:   Q:   Okay. The response to Exhibit B1-10,  
22           BCPSO IR 1.9.1, indicates your evidence that the  
23           potential customer switching to electricity poses a  
24           business risk for Fortis's electricity distribution  
25           utility as well as its natural gas distribution  
26           utility. Is that your recollection of your answer in



1 MR. HOBBS: Q: Mr. Chair, Commissioners, Ms. McShane,  
2 good morning.

3 MS. McSHANE: A: Good morning.

4 MR. HOBBS: Q: Ms. McShane, I would like to start by  
5 referring you to Dr. Safir's evidence, which is  
6 Exhibit C4-9, and I'll also take you to your evidence,  
7 A1-9-6, tab F of page 82.

8 COMMISSIONER GIAMMARINO: To Ms. McShane's -- could you  
9 repeat the reference?

10 MR. HOBBS: Q: Yes. To Ms. McShane's evidence. It's  
11 page 82. I'll be getting there in a moment. I just  
12 thought I would bring that to your attention.

13 COMMISSIONER HARLE: What page for Safir?

14 MR. HOBBS: Page 12. It's Table 1 on page 12. Thank  
15 you.

16 Q: I'd like to begin, Ms. McShane, by perhaps  
17 stating the obvious and that is to identify the  
18 differences, the key differences between your evidence  
19 and Dr. Safir's evidence with respect to the CAPM  
20 results. Would it be reasonable for me to conclude  
21 that the key differences are the market risk premium  
22 and the adjusted beta?

23 MS. McSHANE: A: Yes.

24 **Proceeding Time 9:38 a.m. T13**

25 MR. HOBBS: Q: Thank you. With respect to the risk-  
26 free rate, you're using 4 percent and Dr. Safir is

1 using 4 percent. And my question to you is, have you  
2 had an opportunity to review how Dr. Safir concluded  
3 the risk free rate was 4 and if so, whether or not you  
4 agreed with his conclusion, or his reasons rather than  
5 his conclusion. And I can take you to that, where he  
6 provides his opinion in that regard if that's helpful,  
7 and it's in yet another exhibit. It's Exhibit C4-11  
8 and it's IR 4.1 on page 5. I'll give you a moment to  
9 read that response, Ms. McShane, if you need to, to  
10 answer my question.

11 And I must say I'm really just interested  
12 in your opinion with respect to the portion of the  
13 answer that appears above Figure 1. However, the  
14 balance of it may be useful for you too, so don't let  
15 me curtail your reading.

16 MS. McSHANE: A: So what I understand he's basically  
17 done is used what appears to be a forecast 30-year  
18 Canada for the next five years based on data he got  
19 from the Canadian Department of Finance in October  
20 2012. I mean, my estimate was based on three years,  
21 his was based on five, slightly different sources, but  
22 it's not inconsistent. It's not an inconsistent  
23 approach.

24 MR. HOBBS: Q: Thank you. And just then to make sure  
25 the record is clear, you agree with his use of the  
26 five-year period and his reasons for doing so because



1 MS. McSHANE: A: It's your question.

2 MR. HOBBS: Q: I'm giving you the option as to how  
3 you're answering this question.

4 MS. McSHANE: A: Well, you --

5 MR. HOBBS: Q: My question is going to stand, I can  
6 indicate a preference, but why don't you choose?  
7 What's your preference?

8 MS. McSHANE: A: I'll write it out for you.

9 **Information Request**

10 MR. HOBBS: Q: Okay. That would be fine.

11 Now, I'd like to turn to the question of  
12 the market risk premium. And in order to do this, you  
13 know, I tried to avoid some flipping around, and I see  
14 I haven't been able to manage that. But I'm back at  
15 page 82 in your evidence, Ms. McShane.

16 Am I correct that Table 12 is the essence  
17 of your conclusion that at different risk-free rates,  
18 you need to use a different market risk premium?

19 MS. McSHANE: A: I don't know that I would say it's the  
20 essence. But this table is the basis for the specific  
21 choice of risk premium at a given interest rate. I  
22 mean, the need to take into account the level of  
23 interest rate when determining the risk premium is  
24 based on -- the general proposition is based on  
25 broader considerations than this, but the specific  
26 data are essentially captured in this table.

1 MR. HOBBS: Q: All right. And the broader propositions  
2 are, if you will, reflected in the data.

3 MS. McSHANE: A: The specific numbers.

4 MR. HOBBS: Q: The specific numbers.

5 MS. McSHANE: A: Yes.

6 MR. HOBBS: Q: All right. This table is cumulative in  
7 the sense that you looked at the observation points  
8 below 4 percent, then below 5, through to 9.

9 MS. McSHANE: A: That's right.

10 MR. HOBBS: Q: All right. If you were to group them,  
11 so establish a group zero to four, four to six, et  
12 cetera, would you expect to see different results?

13 MS. McSHANE: A: You might, yes.

14 MR. HOBBS: Q: All right.

15 MS. McSHANE: A: Because you will have variability  
16 within the groups. I wouldn't expect it would be  
17 quite as -- the word "need" isn't probably the right  
18 word, but I think you would see a lot more variability  
19 because you've got fewer observations in each sub-  
20 group.

21 MR. HOBBS: Q: Has that analysis been something that  
22 you've done?

23 MS. McSHANE: A: I may have that somewhere.

24 MR. HOBBS: All right. I'm going to propose to you  
25 groupings for you to do that for me. For Canada, I  
26 would like you to group at 0 to 4 -- I'll put these on

1 the record, and actually I don't think anybody needs  
2 to write them down.

3 MS. McSHANE: A: Okay.

4 MR. HOBBS: Q: 0 to 4, 4 to 8, 8 to 12, 12 to 16, and  
5 above 16. And for the U.S., 2 to 4, 4 to 6, 6 to 8, 8  
6 to 10, and greater than 10.

7 Is that something that you can do for me?

8 MS. McSHANE: A: I can. I'm just curious why they're  
9 different for the two countries.

10 MR. HOBBS: Q: I'll leave the option open to you. I  
11 would like those results.

12 MS. McSHANE: A: Okay.

13 MR. HOBBS: Q: But I'll leave the option to you to put  
14 it -- an additional -- I'd like it in the table format  
15 that you've presented on Table 12, and then Table 15,  
16 which is the same format. But give you the option in  
17 your answer to choose different groupings, if you  
18 wish.

19 MS. McSHANE: A: Okay, thank you.

20 **Information Request**

21 **Proceeding Time 9:48 a.m. T15**

22 MR. HOBBS: Q: Now, if I turn to -- I want to find your  
23 rebuttal evidence, which is B1-32, page 10, and I'm  
24 interested in the Q&A that appears from lines 242 to  
25 258.

26 MS. McSHANE: A: I have that.

1 MR. HOBBS: Q: And is it correct to say that that's  
2 your theoretical basis, sort of these other  
3 propositions, if you will, that you mentioned earlier,  
4 to support your conclusion that market risk premiums  
5 need to change before bond income returns?  
6 MS. McSHANE: A: Well, that's certainly one basis for  
7 it, yes.  
8 MR. HOBBS: Q: That's one of the propositions.  
9 MS. McSHANE: A: Right, because Dr. Safir said that  
10 there was no theoretical basis for it, as I recall.  
11 MR. HOBBS: Q: Right. In that regard, your answer,  
12 does it assume that bond holders will hold to  
13 maturity? And I think you've said that at line 250.  
14 MS. McSHANE: A: In this particular case, yes.  
15 MR. HOBBS: Q: Right. But in the market, that's not a  
16 reasonable assumption, is it? Bond holders if they  
17 see inflation coming, they can quickly -- it's a very  
18 liquid market. They can quickly make changes to their  
19 portfolio.  
20 MS. McSHANE: A: Yes, they can make changes to their  
21 portfolio, but -- so if interest rates -- so if  
22 inflation is higher than anticipated, and a bond  
23 holder -- well, let me back up. So inflation is  
24 higher than anticipated. The yield on the bonds in  
25 the market is going to go up. If you have of a --  
26 holding a bond that has a coupon below the market

1       yield, you're going to sell it at a capital loss.

2 MR. HOBBS:   Q:   Right, and you're going to make that

3       adjustment on a -- as you make decisions with respect

4       to --

5 MS. McSHANE:   A:   Right.

6 MR. HOBBS:   Q:   -- where inflation is, you're going to

7       make those adjustments.

8 MS. McSHANE:   A:   Right. So if you're afraid that

9       inflation is going to be higher than expected from the

10       get-go, you're going to incorporate into the return

11       you require compensation to protect you.

12 MR. HOBBS:   Q:   Right. And there are other factors at

13       play here other than inflation. So those decisions

14       that are being made are being made for reasons that

15       may include inflation but may very well include a

16       number of other factors.

17 MS. McSHANE:   A:   Are we still talking about bonds

18       specifically?

19 MR. HOBBS:   Q:   Yes. Yeah, I'm talking about that. A

20       bond holder who reaches a different conclusion with

21       respect to whether or not to hold -- there are other

22       factors at play other than just inflation in their

23       decision making. Isn't that a reasonable assumption?

24 MS. McSHANE:   A:   Well, there are always a multitude of

25       factors and bond holders may sell bonds because they

26       want to reallocate to equities.

1 MR. HOBBS: Q: Right.

2 MS. McSHANE: A: But this was all about, and this  
3 theoretical basis was all about the relationship  
4 between, you know, what determines the riskiness of a  
5 bond relative to the riskiness of equities.

6 MR. HOBBS: Q: Right, and there's more at play than  
7 inflation. Your answer focuses on inflation and  
8 expected inflation. But there is more at play than  
9 just inflation.

10 **Proceeding Time 9:27 a.m. T16**

11 MS. McSHANE: A: I would agree with that. Keeping in  
12 mind that we are here talking about -- basically about  
13 government bonds. And we're not talking about things  
14 like, you know, changes in default risk that would  
15 affect corporate bonds. We're simply talking about  
16 what can affect government bonds.

17 MR. HOBBS: Q: Right. Is it also true that, as you  
18 say, in some cases equity holders are going to have  
19 the opportunity to adjust prices but in other cases  
20 they're not?

21 MS. McSHANE: A: The underlying companies.

22 MR. HOBBS: Q: Yes.

23 MS. McSHANE: A: Sometimes they will not have the  
24 ability to adjust prices, that's true.

25 MR. HOBBS: Q: Okay.

26 MS. McSHANE: A: It depends on the specific

1           circumstances in the economy at the time. But the  
2           idea is that the underlying companies, all other  
3           things equal, can have -- they have a better potential  
4           to adjust the prices for goods and services that they  
5           sell and thus, you know, have equities to provide a  
6           better hedge against inflation than is available in  
7           bonds.

8 MR. HOBBS:    Q:   All right. Turning to the issue of  
9           betas, and I want to do this in the context of a  
10          discussion you had with Ms. Worth just moments ago.  
11          You spoke to concerns about regulatory risk. Isn't it  
12          equally the case that there are significant benefits  
13          that flow to a utility from regulation?

14 MS. McSHANE:   A:   Regulation does protect companies. I  
15          don't disagree with that.

16 MR. HOBBS:    Q:   And because regulation protects  
17          companies, isn't it also true that you would not  
18          expect betas for utilities to ever trend towards 1?

19 MS. McSHANE:   A:   To trend towards 1. I guess I don't  
20          disagree with that. I never said that they would.

21 MR. HOBBS:    Q:   All right. You take exception to Dr.  
22          Safir's use of the Fernandez study. Because, my  
23          understanding is, 85 percent of the people who respond  
24          to his requests -- and you'll agree there are a lot of  
25          them, I am sure -- 85 percent of them rely on their  
26          opinions that they receive from others. Is that

1           fundamentally your concern with the Fernandez study?  
2 MS. McSHANE:   A:   Well, the section of my testimony that  
3           you're referring to, which is at page 10 of the  
4           rebuttal, and I don't know the exhibit number.  I  
5           apologize.  
6 THE CHAIRPERSON:   B1-36.  
7 MS. McSHANE:   A:   Was speaking about the problematic  
8           nature of this survey, where you have essentially 85  
9           percent of the respondents, you know, saying that --  
10          just as an example.  They will say, "Well, my estimate  
11          of the risk premium comes from Ibbitson's book," or  
12          "My estimate of the risk premium comes from the  
13          Damadorn website."  So, you don't have people in this  
14          -- most people in this survey actually estimating  
15          their own risk premium.  They're just -- they're  
16          saying, "Well, I rely on somebody else's estimate."  
17          So there is a lot of circularity in that.  
18 MR. HOBBS:   Q:   Right.  And it's beneficial, if you  
19          will, to have the benefit of analysis of others.  One  
20          would expect somebody who's offering an opinion of  
21          Fernandez's to have considered the views of others.  
22          It's a reasonable expectation.  
23 MS. McSHANE:   A:   Oh, absolutely, that one would expect  
24          people to look at and consider what other people have  
25          done, and what other people have said.  My point was  
26          simply that it appears that people are just choosing

1 the numbers of a small number of other sources.

2 **Proceeding Time 9:59 a.m. T17**

3 MR. HOBBS: Q: Okay. I want to turn now to page 113 on  
4 the DCF estimates, and Mr. Wallace has already asked  
5 you a number of questions with respect to this page.  
6 And this may be in the record, Ms. McShane, so you may  
7 need to be patient with me. But I would like to know  
8 -- or would like you to confirm for me that you, in  
9 your DCF analysis, give equal weight to your U.S.  
10 results and your Canadian results. And then you also  
11 give equal weight to your costs and growth and your  
12 three-stage model results.

13 MS. McSHANE: A: That's correct.

14 MR. HOBBS: Q: Thank you. And at the conclusion of the  
15 paragraph at line 2862, so this is page 113 of Ms.  
16 McShane's evidence, line 2862, you land, I think, on  
17 what your conclusion is and that's 9.4.

18 MS. McSHANE: A: Yes.

19 MR. HOBBS: Q: Right. This may just be a typo, but  
20 when I look at Table 1 on page 6 of Ms. McShane's  
21 evidence, sorry. Ms. McShane's evidence, page 6,  
22 Table 1, I see 9.6 there. It is only 20 basis points  
23 but is that, just to tidy it up, is that -- should  
24 those numbers be the same?

25 MS. McSHANE: A: Oh, I think we're talking about two  
26 separate tests.

1 MR. HOBBS: Q: Are we?

2 MS. McSHANE: A: Yes. So in Table 1 on page 6, I  
3 believe the 9.6 you're talking about is the second  
4 number in the table?

5 MR. HOBBS: Q: Yes.

6 MS. McSHANE: A: Oh yeah, that's the discounted cash  
7 flow based --

8 MR. HOBBS: Q: Equity --

9 MS. McSHANE: A: -- and if you come down to the bolded  
10 number --

11 MR. HOBBS: Q: Yes. Yes.

12 MS. McSHANE: A: -- 9.4, that's the 9.4 that  
13 corresponds to what's on page 113.

14 MR. HOBBS: Q: Yes. Obviously. Thank you.

15 Now, I would like to take you to Schedule 3  
16 of your evidence, and you have provided --

17 THE CHAIRPERSON: Excuse me, Mr. Hobbs, from page 1 or 2.

18 MR. HOBBS: Thank you. Page 2 of 2.

19 THE CHAIRPERSON: Thank you.

20 MR. HOBBS: Q: Schedule 3, page 2 of 2. And I'm going  
21 to ask a question about the line item Ontario  
22 Electricity Distributors, and this is really just for  
23 the purposes of the record. But the 9.42 that you  
24 have for 2012.

25 MS. McSHANE: A: Yes.

26 MR. HOBBS: Q: Would you agree that that was changed to

1 9.12 on May the 1<sup>st</sup>, 2012?

2 MS. McSHANE: A: The 9.42 was the number, the ROE that  
3 was for rates effective January 1<sup>st</sup>, 2012, and then  
4 there would have been another cost of capital  
5 parameter letter issued after that for rates effective  
6 May 1<sup>st</sup>, 2012, and I've forgotten what the numbers --  
7 9.12 I think perhaps was the new number.

8 MR. HOBBS: Q: That's what I think it is.

9 MS. McSHANE: A: And I believe that it's sitting on  
10 Schedule 3, page 1 of 2.

11 MR. HOBBS: Q: It is. All right. And then we do now  
12 have numbers for January 1<sup>st</sup>, 2013. Correct? I can  
13 help you with this. I think --

14 **Proceeding Time 10:04 a.m. T18**

15 MS. McSHANE: A: I believe that's right. I don't  
16 recall what they are, but I believe that's right.

17 MR. HOBBS: Q: All right. Subject to check, we'll  
18 assume they're 8.93.

19 MS. McSHANE: A: Actually, that sounds right, yes.

20 MR. HOBBS: Q: Okay. And if it's not, just for the  
21 purposes of the record, if you could get back to me.  
22 Or just correct it on the record.

23 And then that's true -- the exercise that  
24 we just went through is true for each of the preceding  
25 years. So, for example, in 2012 where you indicated  
26 it was 9.42, that was only for the first quarter.

1 Well, pardon me. That was only until May the 1<sup>st</sup>,  
2 which is the adjustment date by the OEB.

3 MS. McSHANE: A: Not exactly. So, if you're a company  
4 that has rates that are effective January 1<sup>st</sup> in a  
5 particular year, then your ROE for that year will be  
6 based on -- the OEB will issue a letter, I think it's  
7 in November. Three months before rates become  
8 effective. And that will be your number for the year.  
9 If your rates are effective May 1<sup>st</sup> of a particular  
10 year, then your ROE for your rate year beginning May  
11 1<sup>st</sup> will be the number that's determined for rates  
12 effective May 1<sup>st</sup>.

13 MR. HOBBS: Q: Right. And I'm more concerned about the  
14 trend in the rates. And the January 1<sup>st</sup> and the May 1<sup>st</sup>  
15 dates, or rates, change -- those are the change dates  
16 in Ontario if the OEB's calculations change their  
17 rates. Then you haven't captured this in these  
18 numbers for the years 2007, let's say, till 2011.  
19 You've just put the January the 1<sup>st</sup> dates down.

20 MS. McSHANE: A: Right. So they're consistent with all  
21 the other -- I think they're consistent, at least,  
22 with all of the other companies that are on the table.  
23 But I understand what you're saying, that I haven't  
24 put all the various intermediate periods on the table.  
25 When I redo this schedule for, you know, to add --  
26 when I have returns for 2013, for the affected

1 companies, then the number that would show up here for  
2 the Ontario electricity distributors will be the 893.

3 MR. HOBBS: Q: Right. I guess if you would -- the only  
4 additional number that I'd like you to put down in  
5 that is -- I'm not sure that you were consistent in  
6 your numbers with what you just told me, that these  
7 are all effective January the 1<sup>st</sup>. If I look at 2011,  
8 the 9.58, I'm not sure is the number effective January  
9 the 1<sup>st</sup>, 2011. I'll ask you to check that number and  
10 if it's not correct, change it on the record.

11 So that we are seeing consistency from year  
12 to year in your application of the numbers. So we can  
13 assume -- I'm hoping that when you're finished, we  
14 will have for 2011, 2012, and 2013 the numbers  
15 effective January the 1<sup>st</sup>, and May the 1<sup>st</sup>, of each of  
16 those years. Except, of course, 2013, which we only  
17 have for January the 1<sup>st</sup>.

18 MS. McSHANE: A: So -- sorry, go ahead. I was going to  
19 say, so really what you would like is, if I understand  
20 correctly, from the time the Ontario Energy Board  
21 issued its new cost of capital policy in December,  
22 2009, you'd like to see every number that they've  
23 actually published as an official ROE for some period.

24 MR. HOBBS: Q: That will do it. I was only looking for  
25 2011 on, but yes, that makes sense, what you just  
26 suggested.

1 MS. McSHANE: A: Well, I think the first one would have  
2 been effective January 1<sup>st</sup>, 2010, and then there would  
3 have been one in May, 2010, and then --

4 MR. HOBBS: Q: Yeah, I have the one from --

5 MS. McSHANE: A: -- May and January for each other --  
6 each subsequent year.

7 **Proceeding Time 10:09 a.m. T19**

8 MR. HOBBS: Q: Yeah, that sounds fine. I am hesitating  
9 only because I think you are going to find that your  
10 9.85 for 2010 is in fact the May the 1<sup>st</sup> number.

11 MS. McSHANE: A: It could be. I could have been  
12 inconsistent --

13 MR. HOBBS: Q: When you did that.

14 MS. McSHANE: A: But not on purpose.

15 MR. HOBBS: Q: No, and I am not suggesting that, and I  
16 really just am after you to correct the table of --

17 MS. McSHANE: A: I will take a look at it.

18 **Information Request**

19 MR. HOBBS: Q: All right, thank you. I'd like to now  
20 turn to --

21 THE CHAIRPERSON: Mr. Hobbs, is this an appropriate time  
22 to break?

23 MR. HOBBS: It is, yes. Thank you.

24 THE CHAIRPERSON: Let's do that for 15 minutes, coming  
25 back at slightly after 20 after 10.

26 **(PROCEEDINGS ADJOURNED AT 10:10 A.M.)**



1 MS. McSHANE: A: Sorry, so that the difference between  
2 the 289 and 338, is that --

3 MR. HOBBS: Q: Yeah.

4 MS. McSHANE: A: And what was the number you said?

5 MR. HOBBS: Q: 0.49.

6 MS. McSHANE: A: That looks right.

7 MR. HOBBS: Q: And if I turn to Exhibit C4-14, do you  
8 -- and I wouldn't expect you to, this isn't a memory  
9 test, but do you remember this conclusion from your  
10 testimony in that proceeding? And even if you don't  
11 remember, that --

12 MS. McSHANE: A: Well, it's -- I remember it now that  
13 I've seen it.

14 MR. HOBBS: Q: Okay, all right. I was hoping it would  
15 at least do that for you.

16 Can you tell me whether or not, in your  
17 last sentence in Exhibit C4-14, whether or not that  
18 sentence is in reference to the difference between the  
19 3.38 and the 2.89 in Exhibit A2-11? Is that you  
20 describing what we're seeing in Exhibit A2-11?

21 MS. McSHANE: A: It could be. Wasn't there another  
22 page after this that had a table on it?

23 MR. HOBBS: Q: I'm sorry, I can't answer that.

24 MS. McSHANE: A: Because the second paragraph on the  
25 page that you handed me says, "As indicated in the  
26 following table," so I would have assumed that there

1 was a table that followed and could have looked at it  
2 and determined whether it was the same thing.

3 MR. HOBBS: Q: Yeah. Yes. Thank you. I appreciate  
4 that and I ought to have done that for you.

5 MS. McSHANE: A: So, but my recollection is that I did  
6 do something similar to what was in the company's  
7 testimony.

8 **Proceeding Time 10:34 a.m. T22**

9 MR. HOBBS: Q: Right. Your point is a good one. For  
10 the purposes of my questions now -- I do not have the  
11 table. So, the purposes of my questions now, and you  
12 can correct the record, let's assume that the table  
13 will provide evidence as presented in A2-11. You do  
14 refer to the weighted equity return component of the  
15 allowed return on rate base. So I am assuming that is  
16 the weighted equity return component that is shown in  
17 A2-11?

18 MS. McSHANE: A: Right, I mean that is what it says on  
19 the table on page 4 in the right hand column, weighted  
20 equity return component.

21 MR. HOBBS: Q: Right, and so one would expect them to  
22 be the same. If they are not, I'd ask you then to  
23 correct me.

24 MS. McSHANE: A: Will do.

25 MR. HOBBS: Q: Assuming that it is the same, your  
26 description of that difference was that compared to

1 the peer group, the weighted equity return component  
2 was materially lower? Those are your words,  
3 materially lower?

4 MS. McSHANE: A: Right.

5 MR. HOBBS: Q: All right. Now, I'd like you to turn to  
6 Exhibit B1-20, and this is BCUC 1.4.1 on page 7, and I  
7 am actually interested in the table that appears on  
8 page 8.

9 MS. McSHANE: A: Sorry, what was the question number  
10 again?

11 MR. HOBBS: Q: 1.4.1, so 4.1.

12 MS. McSHANE: A: I have it.

13 MR. HOBBS: Q: All right. You will see in the table  
14 that really doesn't have a heading, but it is on page  
15 8, the weighted return components appear, and I think  
16 you can confirm this by looking at the comparable ROEs  
17 that we are talking about 2012 numbers. And there we  
18 have, if you will, FEI as compared to the comparables  
19 being higher and being higher by 0.57.

20 MS. McSHANE: A: Sorry, I am just trying to make sure I  
21 understand what's in this table. So FEI had an  
22 allowed return for 2012 that was a continuation of the  
23 ROE that was set in 2009. And so ATCO Gas had had a  
24 return set specifically for 2011 and '12 in 2011. But  
25 the Enbridge gas and the Union gas numbers were the  
26 values that sort of carried over from their PBR plans,

1 from 2007. So, it is kind of a bit of a mixtures of  
2 numbers.

3 MR. HOBBS: Q: Well, let's -- if this helps, if you  
4 look at schedule 3, page 2 of 2 in your evidence, I  
5 think you are going to see that the numbers that  
6 appear as the allowed ROEs for 2012 match your  
7 numbers.

8 MS. McSHANE: A: Oh yes. No, I don't disagree that  
9 those are the numbers. It is just that -- I guess  
10 what I was saying is they weren't all necessarily  
11 determined for 2012 per se, some of them were and some  
12 of them weren't. So, yes, yes, FEI for 2012 is  
13 higher. Now FEI's ROE is set for 2013, and beyond,  
14 so --

15 **Proceeding Time 10:40 a.m. T23**

16 MR. HOBBS: Q: We'll get to 2013 and beyond.

17 MS. McSHANE: A: I'm not sure how much this really  
18 tells us.

19 MR. HOBBS: Q: Well, all right. Would you agree that  
20 it tells us that FEI as compared to the comparables  
21 that are there, is materially higher -- that the  
22 weighted return component for FEI is materially higher  
23 than the comparables. Would you agree?

24 MS. McSHANE: A: It was materially higher for 2012.

25 MR. HOBBS: Q: All right. Now, let's get to -- so we  
26 have gone from 2005, where compared to its peer group

1           it was materially lower, to now where it's materially  
2           higher. Is that correct?

3 MS. McSHANE:    A:    Yes. Some of it, I think, is timing.  
4           But for 2012 it was higher.

5 MR. HOBBS:      Q:      Okay. You haven't answered my question.

6 MS. McSHANE:    A:      Okay, I'll try again.

7 MR. HOBBS:      Q:      I think it's on the record already, but  
8           just, I suppose, to make sure that there is no dispute  
9           about this. From 2005 to 2012, FEI has gone from  
10          being materially lower to materially higher than its  
11          peer group.

12 MS. McSHANE:    A:      Yes, for 2012 and with the caveat  
13          that, due to specific circumstances with the timing of  
14          the way returns were set.

15 MR. HOBBS:      Q:      Well, let's deal with the issue of  
16          timing, then. If your concern is that this is not  
17          reflective of 2013, can you update any of these  
18          numbers for numbers that you know for 2013?

19 MS. McSHANE:    A:      Well, Enbridge Gas for sure. Union  
20          Gas for sure. The other ones are still in flux,  
21          because ATCO Gas will have a 2013 number set in a  
22          generic proceeding. Gaz Metro will have a return set  
23          for 2013 somehow, you know, either because they have a  
24          formula or because they file for a new return.  
25          TransCanada is in the middle of a proceeding. The  
26          reason that they had 808 for 2012 was because they

1           were in a long-term agreement, which kept them under  
2           the National Energy Board's formula.

3 MR. HOBBS:   Q:   All right.

4 MS. McSHANE:   A:   So there are a couple that will be --  
5           that are already determined, and there are the rest of  
6           them will be.

7 MR. HOBBS:   Q:   Would you like to update this table?  
8           I'll give you the option.  If that addresses your  
9           concerns about timing, I'll give you the option.  
10          Would you like to --

11 MS. McSHANE:   A:   I don't see any particular need to  
12          update it.  I just thought it was important to  
13          recognize that there were some timing differences.

14 MR. HOBBS:   Q:   But it doesn't change the conclusion  
15          that you've just --

16 MS. McSHANE:   A:   No, for 2012 --

17 MR. HOBBS:   Q:   Right.

18 MS. McSHANE:   A:   -- FEI was higher than what the  
19          allowed returns were for this group of companies.

20 MR. HOBBS:   Q:   Materially higher.

21 MS. McSHANE:   A:   Well, compared -- yes.  I mean, I  
22          think it would only be fair to say that, based on the  
23          conclusion, you know, the difference, when we said  
24          that they were lower.

25 MR. HOBBS:   Q:   That's why I took you there first.  
26          Thank you.



1       convince anyone yet that your numbers mean anything  
2       either, have you?

3 MS. McSHANE:   A:   Well, I think they have meant  
4       something to this Commission because they interpreted  
5       them and determined from them what they believed the  
6       -- they believed they indicated as a fair return.

7 MR. HOBBS:     Q:   In 2006 they said, "Yeah, maybe."

8 MS. McSHANE:   A:   Right. They said, "Yeah, maybe."  
9       They expressed a concern. The concern was did we need  
10      to apply a market-to-book ratio adjustment? I  
11      addressed that concern. And in 2009 they looked again  
12      at the numbers and said they were prepared to give  
13      some small weight to those numbers and assess them and  
14      said, "This is," -- I don't recall the exact values  
15      but, "This is what these comparable earnings numbers  
16      indicate to us is a fair return for the benchmark B.C.  
17      utility."

18 MR. HOBBS:     Q:   In that sense your evidence may be  
19      equally as helpful or as unhelpful as Dr. Safir's  
20      evidence with respect to comparable evidence.

21 MS. McSHANE:   A:   Well, I wouldn't agree with that, but  
22      you know, the Commission has before it the evidence  
23      and it's up to them to, you know, assess how helpful  
24      each piece of evidence is. I gave my view on Dr.  
25      Safir's comparable earnings and hopefully, you know,  
26      that evidence is of assistance to them.

1 MR. HOBBS: Thank you, Mr. Chair, Commissioners.

2 THE CHAIRPERSON: Thank you, Mr. Hobbs.

3 MR. GHIKAS: Before we move on, Mr. Chairman, I just  
4 wanted to -- I had checked -- my friend Mr. Hobbs was  
5 referring to A2-11 and the table there. It doesn't  
6 appear exactly like that in Ms. McShane's testimony  
7 from 2005 on page 51. The information that is on A2-  
8 11, page 4 is part of the information that is  
9 presented by Ms. McShane on page 51 of her evidence in  
10 2005. It is not the entirety of the evidence that's  
11 in the table.

12 THE CHAIRPERSON: Okay.

13 MR. GHIKAS: Thank you.

14 THE CHAIRPERSON: We don't have it. You have it we  
15 don't.

16 MR. GHIKAS: I do have a copy, which I'm prepared to  
17 file. I only have one copy for myself, but if it's  
18 useful to the Commission I can have copies run.

19 MR. HOBBS: The challenge, Mr. Chair, is if I have misled  
20 Ms. McShane, that's not fair to Ms. McShane. So my  
21 suggestion would be that Ms. McShane have an  
22 opportunity to review the table that I did not provide  
23 to her and see if it draws different conclusions.

24 THE CHAIRPERSON: Fair enough. That sounds like a fair--

25 MR. HOBBS: Thank you.

26 **CROSS-EXAMINATION BY MR. FULTON:**

1 MR. FULTON: Q: Good morning, Ms. McShane.

2 MS. McSHANE: A: Good morning.

3 MR. FULTON: Q: I'd like to begin with a follow-up of a  
4 question that I had asked of Panel 1 yesterday, and  
5 they indicated that you were the individual who should  
6 answer the question, and it related to your use of the  
7 2013-2015 three-year period forecast for 30-year  
8 Canada Bonds of 4 percent at the risk-free rate. If  
9 you've got transcript Volume 3 close at hand, I would  
10 ask you to turn to page 323.

11 MS. McSHANE: A: I have that.

12 MR. FULTON: Q: And the discussion began at line 14 --  
13 or at line 8 on page 323, and I want to focus on the  
14 question that I asked at page 324, lines 1 to 4, which  
15 Mr. Dall'Antonia did defer to you and that was

16 "...given that the 2013 thirty-year Canada  
17 Bond yield forecast is 3.2 percent and a  
18 three-year period is based on 4 percent,  
19 shouldn't the ROE for the one-year period be  
20 lower by 80 basis points?"

21 **Proceeding Time 10:50 a.m. T25**

22 MS. McSHANE: A: And the answer is "No." For the  
23 following reasons. First of all, there are several  
24 tests that are done to estimate the fair return. Only  
25 the risk premium tests are based on the long Canada  
26 bond yield. So if you think about the various weights

1           that were given to the tests, only, say, 37 and a half  
2           percent weight was given to tests that are using the  
3           long Canada bond yield forecast. And even within  
4           those tests that use the long-term Canada bond yield  
5           forecast, there is not a one-for-one relationship  
6           between the change in the long-term Canada bond and  
7           the change in the ROE.

8                        So, for discussion's sake, if we proceed on  
9           the premise that the ROE changes by about 50 percent  
10          of the change in the long-term Canada bond yield -- I  
11          mean, it's going to be different at different points  
12          in time. But if you look at it on a weighted average  
13          basis, if you looked only at the 3.2 percent, you'd be  
14          talking about maybe a 20 basis point difference.

15 MR. FULTON:    Q:    All right. So, some difference, but  
16           the difference is not 80 basis points but 20 basis  
17           points.

18 MS. McSHANE:   A:    That was an approximation based on how  
19           much weight was given to the risk premium test and the  
20           essential relationship between long-term government  
21           bond yields and the ROE.

22 MR. FULTON:    Q:    Thank you.

23                        If you were only looking at the risk  
24           premium test, would the estimate then be 40 basis  
25           points rather than 20 basis points?

26 MS. McSHANE:   A:    So, if I were only using risk premium

1 tests to estimate the ROE --

2 MR. FULTON: Q: Yes.

3 MS. McSHANE: A: -- and then you asked me to basically  
4 re-estimate the ROE at 3-2 versus 4 percent.

5 MR. FULTON: Q: Right. For the -- just for one year.  
6 So there's only a one-year period.

7 MS. McSHANE: A: Correct. And then, you mean if that  
8 were the way I were doing it, then that would follow.

9 MR. FULTON: Q: Thank you. Now, there was another area  
10 that was deferred to you as well, and it related to  
11 the standalone principle. And that discussion that I  
12 had yesterday with Mr. Dall'Antonia was at transcript  
13 329. And beginning at line 4, I referenced a  
14 statement in your evidence at page 10, beginning at  
15 line 257, about the nature of the standalone  
16 principle, and what it encompassed. And then I asked  
17 the question beginning at line 13, in reference to  
18 that statement of principle,

19 "...do I understand that to mean, then, that  
20 on the basis of the stand-alone principle,  
21 one wants, then, to derive a cost of capital  
22 for FEI that reflects the characteristics  
23 and circumstances of FEI as opposed to a  
24 utility that has different characteristics  
25 or circumstances?

26 And if it helps you in terms of clarity,



1           than FEI.

2                           But maybe if I gave you an example from --  
3           just from history which may explain a bit why the  
4           standalone principle really evolved in the first  
5           place, in Canada, and that was because, particularly  
6           with pipelines that were regulated by the National  
7           Energy Board, they were becoming more diversified. I  
8           mean, TransCanada at one point, I think they were  
9           owned by Dome Petroleum. So the National Energy Board  
10          was trying to make sure that when they looked at the  
11          cost of capital for the pipelines, they were looking  
12          at just the pipeline operations. They weren't trying  
13          to give them a return that reflected the fact that  
14          they were involved in oil and gas exploration. So  
15          that is sort of the genesis, and that is really, when  
16          we talk about the standalone principle for FEI, that  
17          is the same idea.

18 MR. FULTON: Q: Would you agree with me that you want to  
19           be looking at comparables of a similar companies as  
20           you can find, so that you wouldn't want to be looking  
21           at companies that are involved in the oil and gas  
22           exploration business, for example?

23 MS. McSHANE: A: I think the focus certainly is on  
24           companies that are in similar lines of business that  
25           you know that investors would view as similar risk to  
26           FEI. I don't think it necessarily needs to be limited

1 to companies that are in the utilities sectors,  
2 because investors do have options to put their money  
3 in other sectors that are of relatively low risk. And  
4 that would be viewed as potential alternative  
5 utilities.

6 **Proceeding Time 11:01 a.m. T27**

7 MR. FULTON: Q: Would you agree with me though that if  
8 there are different components, you need to adjust for  
9 different levels of risk?

10 MS. McSHANE: A: If the comparable or the proxy  
11 companies are different total risks than in principle,  
12 yes, you need to make adjustments.

13 MR. FULTON: Q: Thank you. If I could ask you to move  
14 forward to page 35 of your evidence, and also have in  
15 front of you Exhibit C6-15, which is the response of  
16 AMPC to BCUC IR 1.11, page 16. So Exhibit C6-15, AMPC  
17 response to BCUC IR 1.11, page 16.

18 MS. McSHANE: A: Yeah, I have that.

19 MR. FULTON: Q: Okay. And in your evidence on page 35,  
20 lines 872 to 877, you talk about what is required for  
21 Fortis to attract debt capital on reasonable terms and  
22 conditions and to maintain its creditworthiness and go  
23 on to say:

24 "FEI should provide the basis for standalone  
25 investment grade debt ratings in the A  
26 category. Debt ratings in the A category

1           ensure that a utility would be able to  
2           access the capital markets on reasonable  
3           terms and conditions during both robust and  
4           difficult or weak capital market  
5           conditions."

6                     And bearing that answer in mind, if you  
7           then look at the response of AMPC to the Commission's  
8           question in Exhibit C6-15, towards the end of the  
9           first paragraph of the answer the statement appears:

10                    "When Canada went into recession, utility  
11                    debt traded as if it was at least one  
12                    category higher than non-utility debt.  
13                    Until Bloomberg started the synthetic  
14                    utility series there was no way of updating  
15                    the CVRS data and SMPC's publishing it after  
16                    they took over CVRS. However, the point is  
17                    that when conditions get bad and the market  
18                    does recognize the value of the regulatory  
19                    protection so that utilities can access  
20                    credit on better terms than the ratings  
21                    indicate, currently some Canadian utilities  
22                    are now issuing 40 and 50-year debt at rates  
23                    of barely 4 percent, indicating the  
24                    incredible financial strength of Canadian  
25                    utilities."

26                    If Dr. Booth is -- first of all, do you



1 is a downgrade, there will be a higher cost of debt.  
2 And there will be the effect that existing bond  
3 investors will say, "You, the Commission, have  
4 negatively impacted the value of our debt. We are  
5 going to be a lot less willing to buy any future  
6 issues of FEI." Plus, if conditions are bad, it's not  
7 like FEI can turn around on a dime and say, "Oh, we  
8 want our A credit rating restored so that we now have  
9 market access."

10 So that's -- those are the reasons I think  
11 the Commission should be concerned about. Making sure  
12 that the company has the ability to maintain its A  
13 rating, so it can access markets.

14 MR. FULTON: Q: Thank you. Page 49 of your evidence.

15 MS. McSHANE: A: I have that.

16 MR. FULTON: Q: Actually, if you go to C-10, it's the  
17 reference that I want. So, page C-10 of your  
18 evidence.

19 MS. McSHANE: A: Oh, page C-10 of my evidence. Yes.

20 MR. FULTON: Q: Yes, I'm sorry, I took you to page 49  
21 and I should have taken you to C-10.

22 MS. McSHANE: A: I'm on page C-10.

23 MR. FULTON: Q: Okay. And there you discuss the three-  
24 stage model. And say that as applied to the sample of  
25 U.S. low-risk utilities relied on the average of the  
26 four sources of analysts' earnings forecasts for the

1 first five years, which is stage 1. The average of  
2 stage 1 forecasts, and the forecast long-term growth  
3 in the economy for the next five years, stage 2, and  
4 the long-term growth in the economy thereafter, which  
5 is stage 3.

6 Now, when you speak of average, are you  
7 talking about the mean that appears in Schedule 23 to  
8 your evidence?

9 MS. McSHANE: A: Well, there are -- I guess there are  
10 two references to "average" in what you've read me.

11 MR. FULTON: Q: All right. So --

12 MS. McSHANE: A: So the first reference to the average  
13 --

14 MR. FULTON: Q: Yes?

15 **Proceeding Time 11:11 a.m. T29**

16 MS. McSHANE: A: The average of the four sources of  
17 analysts' earnings forecasts. So that would be on  
18 Schedule 19. So that's referring to the average in  
19 column 8, where it says "Average of all EPS  
20 estimates".

21 MR. FULTON: Q: Yes, that's there -- they are both mean  
22 and median that are referred to.

23 MS. McSHANE: A: I apologize. I sometimes am  
24 inconsistent with my terminology. If it says "mean"  
25 it means "average". They mean the same thing.

26 MR. FULTON: Q: Okay. And so just so that you're at

1           least consistent in your terminology in the two  
2           schedules, "mean" means "average" in Schedule 19 and  
3           "mean" means "average" in Schedule 23.

4 MS. McSHANE:    A:    Yes.

5 MR. FULTON:     Q:    Thank you.  And the means, or the  
6           averages, are annual growth percentages.  Is that  
7           correct?

8 MS. McSHANE:    A:    They are annualized growth, yes.  So  
9           if the number, for example, when we're looking on  
10          Schedule 19, was the first one under Column 8 was 4.6,  
11          then that would be growth per year.

12 MR. FULTON:     Q:    And is that also, then, if you move  
13          forward to Schedule 23, is the 7.5 also a growth-per-  
14          year average?

15 MS. McSHANE:    A:    Yes.

16 MR. FULTON:     Q:    And equally so are the 5.9, 4.3 of  
17          stage 2 and stage 3 growth.  Those are growth-per-year  
18          averages?

19 MS. McSHANE:    A:    Yes.

20 MR. FULTON:     Q:    Now, returning to the standalone  
21          principle, what I want to discuss with you is a growth  
22          rate that is reflective of FEI rather than utilities  
23          that may have different characteristics or drivers.  
24          And Enbridge, which is one of the companies on  
25          Schedule 23, has a stage 1 growth rate of 10.4  
26          percent.

1 MS. McSHANE: A: Yes.

2 MR. FULTON: Q: And are you able to confirm for me that  
3 in the case of Enbridge, the gas distribution segment  
4 was responsible for 16 percent of the net adjusted  
5 income reported in December, 2011?

6 MS. McSHANE: A: I haven't done that calculation, but  
7 that sounds approximately right.

8 MR. FULTON: Q: Would you agree with that, subject to  
9 check?

10 MS. McSHANE: A: I would.

11 MR. FULTON: Q: And then for Canadian Utilities  
12 Limited, you show it as having a growth rate of 6.2  
13 percent. Would you agree with me that it owns a  
14 significant power generation assets in Canada and also  
15 owns operations in Australia?

16 MS. McSHANE: A: It owns a gas distribution system, I  
17 think, in Australia. It may own some power in  
18 Australia. It owns power plants in Alberta, which  
19 are, I guess -- what they're called is quasi-rate of  
20 return regulated.

21 **Proceeding Time 11:16 a.m. T30**

22 MR. FULTON: Q: Would you classify FEI as a mature  
23 utility?

24 MS. McSHANE: A: Yes.

25 MR. FULTON: Q: And if we are looking at a growth rate  
26 for FEI, shouldn't we be looking at the prospects for

1 a mature utility with virtually no growth prospects  
2 based on the issues that -- the business risk issues  
3 that have been raised in the proceeding today?

4 MS. McSHANE: A: Well, a couple of comments or  
5 responses. The ROE should be determined by reference  
6 to as comparable entities as possible. One of the  
7 criticisms that I have seen of my evidence is too much  
8 emphasis placed on American data. I have tried to  
9 remedy that by looking at Canadian regulated companies  
10 to the extent possible.

11 So, these are the Canadian regulated  
12 companies that are publically traded. So this is the  
13 data that we have available.

14 There are no companies in Canada which have  
15 the precise characteristics, in terms of growth, that  
16 FEI has. So, it is not possible to focus simply on  
17 companies that have relatively limited growth. Having  
18 said that, when you look at a DCF estimate for  
19 companies, there will be -- the dividend yield part of  
20 the equation should match, if you will, with the  
21 growth expectation. So, you would expect a company  
22 like Enbridge, which has relatively good growth  
23 prospects mostly in the pipeline area, to have a  
24 relatively low dividend yield. So, the pieces tend to  
25 offset each other.

26 MR. FULTON: Q: Thank you. I'd like to take you for a

1 moment, and I am going to take you back to it again  
2 later as well, the rebuttal evidence, which is exhibit  
3 B1-32.

4 MS. McSHANE: A: This is my rebuttal evidence?

5 MR. FULTON: Q: Actually, it is the rebuttal evidence of  
6 Mr. Engen, which is pages 5 and 6. So that rebuttal  
7 evidence follows the companies evidence. So there are  
8 13 pages of companies evidence, followed by the  
9 rebuttal evidence of Mr. Engen?

10 THE CHAIRPERSON: Is there a page number?

11 MR. FULTON: Page 5 and 6.

12 Q: And beginning at line 9 where Mr. Engen  
13 references the *Calgary Herald* newspaper article --

14 MS. McSHANE: A: Sorry, I am not quite there yet, I  
15 apologize.

16 MR. FULTON: Q: Okay, I am sorry. So, in Exhibit B1-31,  
17 if you go through the 13 pages of Fortis rebuttal --  
18 or B1-32, I'm sorry. And then you'll come to Mr.  
19 Engen's rebuttal?

20 **Proceeding Time 11:22 a.m. T31**

21 MS. McSHANE: A: I'm there.

22 MR. FULTON: Q: Thank you. And what I'll do is I'll  
23 let you read his comments on Dr. Booth's reference to  
24 the *Calgary Herald* newspaper article which begin on  
25 line 5 and continue over to line 12 on page 6. And  
26 actually you can read to page 12 -- or line 12, but I

1           want to focus on that part of the response that ends  
2           at line 4. That begins on line 5 on page 5 and ends  
3           at line 4.

4 MS. McSHANE:    A:    I've read it, yes.

5 MR. FULTON:     Q:     Do you agree with Dr. -- or Mr. Engen's  
6           comments about TransCanada and Enbridge that are  
7           referred to in that rebuttal evidence?

8 MS. McSHANE:    A:     So -- sorry, I hadn't really had an  
9           opportunity to focus on this before. So Mr. Engen  
10          says that the TransCanada raised these funds, which  
11          were partially to fund the Keystone Pipeline system,  
12          wasn't undertaken to fund assets subject to cost of  
13          service regulation. So that seems to be just factual.  
14          I don't have any reason to disagree with that.

15                    So then the next paragraph says that Dr.  
16          Booth referred to comments made by Mr. Daniel about  
17          the low-risk model of pipelines in general, and I  
18          guess most of the pipelines are not subject to strict  
19          cost of service regulation, so I don't have any reason  
20          to disagree with that.

21                    And then he goes on to say that the equity  
22          financing and the low-risk pipeline model were related  
23          to assets not subject to the same kind of regulations  
24          here. I think that's right. Canadian assets subject  
25          to cost of service regulation have seen a steady  
26          decline in allowed ROEs. That's true. And the

1 success of firms in growing earnings and strong share  
2 performance has had precious little to do with assets  
3 subject to cost of service regulation, and I think  
4 that's also true.

5 MR. FULTON: Q: Do I take it that you would consider  
6 FEI a low-growth pure play natural gas utility?

7 MS. McSHANE: A: On a standalone basis it has  
8 relatively low growth, that's true.

9 **Proceeding Time 11:27 a.m. T32**

10 MR. FULTON: Q: And the references in the *Calgary*  
11 *Herald* newspaper article to the comments of the CEOs  
12 of TransCanada and Enbridge, Inc., can you tell me how  
13 the comments of those -- of the CEOs would not be  
14 applicable regarding pipelines -- I think I'll just  
15 leave it.

16 Let me try it this way. Why should the  
17 Commission dismiss the attributed views of the CEOs of  
18 pipelines but at the same time recognize that you've  
19 included the pipelines in your evidence, in your  
20 Schedule 29, as being germane to the growth rates of  
21 Fortis?

22 MR. GHIKAS: Just before Ms. McShane addresses that,  
23 perhaps it would be useful to ask Ms. McShane whether  
24 she had actually seen the *Calgary Herald* article that  
25 the comments are coming from. It might be useful,  
26 because I don't want Ms. McShane to be in a position

1 of trying to interpret an article she hasn't seen  
2 before.

3 MR. FULTON: Thank you.

4 Q: Let me try it this way then, if you haven't read  
5 the article. If you go to the statement at lines 3  
6 and 4 of page 6 of 9, where Mr. Engen says, "Mr.  
7 Daniels' comments were directed at his pipeline's  
8 business, which is not comprised of assets subject to  
9 cost of service regulation." And so, if that is the  
10 case, why wouldn't the -- why would the growth rate of  
11 Enbridge still be important as a comparable to that of  
12 a low-growth natural gas utility such as Fortis?

13 MR. GHIKAS: I'm not trying to be difficult, Mr.  
14 Chairman, but I think the question still does require  
15 reference to what Mr. Daniel is saying. If Mr. Fulton  
16 is asking -- assuming that these companies have a non-  
17 cost of service regulated portion of the business, why  
18 is it a relevant comparator, if that's the simple  
19 question that Mr. Fulton is getting at, I think that's  
20 something Ms. McShane can answer.

21 MR. FULTON: Right. Thank you, yes.

22 THE CHAIRPERSON: I think that's the question for you.

23 MS. McSHANE: A: So, back to what I had said earlier,  
24 which was that the availability of publicly traded  
25 companies in Canada with regulated operations is  
26 limited. I mean, we obviously rely on them to -- when

1 we look at the capital asset pricing model in the  
2 betas, but these are the best comparables that we have  
3 for regulated utilities. And just because, as I said,  
4 a company might have better growth prospects than the  
5 subject company for whom the cost of equity is being  
6 estimated, doesn't make that company not an  
7 appropriate proxy. For two reasons. One, it's an  
8 alternative potential investment, and two, there will  
9 be a tendency to have -- if you have low growth,  
10 you'll have a high yield, and if you have high growth  
11 prospects, you'll have a lower dividend yield.

12 **Proceeding Time 11:32 a.m. T33**

13 MR. FULTON: I've provided your copy with -- or your  
14 counsel with a copy of some pages from Attachment 47.2  
15 of Exhibit B1-20 which was an electronic version of a  
16 Standard & Poors report, and I gave them that this  
17 morning. I'm not sure whether you would have had an  
18 opportunity to look at it.

19 MS. McSHANE: A: I -- this morning. I haven't seen  
20 this one.

21 MR. GHIKAS: Mr. Chairman, somewhere along the line Mr.  
22 Fulton and I got our wires crossed in terms of getting  
23 the document to Ms. McShane, so she hasn't seen this  
24 one yet.

25 THE CHAIRPERSON: Do you want to take a few minutes and  
26 let her read the document, or --

1 MR. GHIKAS: I'll leave it to Mr. Fulton depending on  
2 what he's asking. It would be good for -- if he's  
3 asking the details of it, she's going to need some  
4 time.

5 MR. FULTON: Q: I just wanted to focus on one paragraph  
6 and that's -- well, at this time one paragraph and  
7 that was on page 9, the paragraph under Aggressive  
8 Growth Profile. And if you don't feel comfortable  
9 answering the question now, we can come back and I can  
10 ask it. I'll do that after lunch. But I'll try the  
11 question and then you can see.

12 MS. McSHANE: A: That's fine.

13 MR. FULTON: Q: Okay.

14 MS. McSHANE: A: So under the heading Aggressive Growth  
15 Profile, the statement appears:

16 "The company consistently has a large  
17 capital program..."

18 and it's talking about Enbridge,

19 "...a large capital program, although we  
20 believe the track record of executing large  
21 projects on time and on budget and  
22 consistently investing in assets  
23 characterized by long-term commercially  
24 secured contracts with relatively low risks,  
25 stable cash flows mitigates this."

26 Do you agree with that, those comments

1           about the growth profile of Enbridge that are made in  
2           the Standard & Poors report?

3 MS. McSHANE:    A:    I agree that they've had a large  
4           capital program.  They had a successful track record  
5           of executing those projects.  They've been investing  
6           in relatively low-risk assets with stable cash flows,  
7           and the bulk of their capital program is for their  
8           four businesses.  So I have no reason to disagree with  
9           S&P.

10 MR. FULTON:     Q:     Would you agree with me that that  
11           doesn't sound like a profile that's comparable to  
12           Fortis?

13 MS. McSHANE:    A:     To FEI?

14 MR. FULTON:     Q:     Yes.

15 MS. McSHANE:    A:     No, they have larger growth prospects  
16           than FEI as a standalone gas distribution utility.

17 MR. FULTON:     Q:     Thank you.

18                         If that could be marked the next exhibit,  
19           Exhibit A2-36.

20 THE HEARING OFFICER:   A2-36.

21           **(PAGES 7 TO 10 FROM STANDARD & POORS REPORT, MARKED**  
22           **EXHIBIT A2-36)**

23 MR. FULTON:     Q:     Would you agree with me that in looking  
24           at the growth rate for FEI, given the demand  
25           challenges that natural gas presents, FEI probably  
26           isn't looking at a large capital program?

1 MS. McSHANE: A: I wouldn't disagree with that, based  
2 on the business risk profile of its standalone gas  
3 distribution business.

4 **Proceeding Time 11:37 a.m. T34**

5 MR. FULTON: Q: Now, if we can turn back in your report  
6 to page 28, and your comments beginning at line 703 to  
7 708, relating to the Bank of Canada's June 2012  
8 Financial System Review, and I'd just like to focus on  
9 the first point at line 705 to 708.

10 MS. McSHANE: A: Yes.

11 MR. FULTON: Q: And in terms of growth rates then, is it  
12 your view that the economy will recover from the low  
13 and sluggish growth mode that the Bank of Canada  
14 describes both globally and in Canada?

15 MS. McSHANE: A: That would be my expectation, yes.  
16 That the recovery has been drawn out, but that it will  
17 recover.

18 MR. FULTON: Q: Thank you. Page 93 of your evidence.

19 MS. McSHANE: A: I'm there.

20 MR. FULTON: Q: Okay. And on page 93, you discuss the  
21 intercept to estimate component of the utility return,  
22 that is incremental to what the CAPM would predict?

23 MS. McSHANE: A: Yes.

24 MR. FULTON: Q: And if I could ask you to read the  
25 paragraph that begins at line 2347 and concludes at  
26 line 2355?

1 MS. McSHANE: A: I've read that.

2 MR. FULTON: Q: IN the middle of the paragraph you say,  
3 "The intercept in the equation should in  
4 principle represent the risk free rate."

5 Can you tell us what you mean by that statement?

6 MS. McSHANE: A: What I meant by that statement is if  
7 the CAPM held, then the intercept should equal the  
8 risk free rate. And the risk free rate over that  
9 period was 7 percent, and the intercept was higher  
10 that by a significant margin.

11 MR. FULTON: Q: Okay, and further down on page 93, and  
12 particularly at lines 2363 to 2364, you state that, or  
13 you expand the regression to include government bond  
14 returns -- that when you expand the regression to  
15 include government bond returns, somewhat more of the  
16 volatility IN the stock prices is explained in your  
17 view, correct?

18 MS. McSHANE: A: Correct.

19 MR. FULTON: Q: Now, given the statement or your  
20 evidence on page 93, can one conclude that in the  
21 first regression, if the R'd squared is only 28  
22 percent, the remaining unexplained 72 percent contains  
23 everything else. And that would include the risk free  
24 rate, errors, and other factors such as the movement  
25 in long term Canada bonds, in order to explain the  
26 volatility in utility returns?

1 **Proceeding Time 11:42 a.m. T35**

2 MS. McSHANE: A: It includes -- it does include  
3 everything that's not in the market beta.

4 MR. FULTON: Q: Okay. And that therefore might explain  
5 the volatility in the returns.

6 MS. McSHANE: A: You mean the other stuff?

7 MR. FULTON: Q: Yes.

8 MS. McSHANE: A: Right. I mean, it's other -- it's  
9 things other than the equity market itself, and in the  
10 second regression, other than the equity market and  
11 the bond market.

12 MR. FULTON: Q: Okay. And that being so, would you  
13 agree with me, then, that of the 3.9 percent  
14 difference between the calculated intercept and the  
15 average 90-day treasury bill return, the risk-free  
16 rate is only one component.

17 MS. McSHANE: A: We've already accounted for the risk-  
18 free rate in the 7 percent.

19 MR. FULTON: Q: Okay.

20 MS. McSHANE: A: So it's the difference between the  
21 two.

22 MR. FULTON: Q: But am I correct in understanding that  
23 the 3.9 percent includes everything? All the stuff  
24 that you talked about?

25 MS. McSHANE: A: Well, it's everything that wasn't  
26 captured in the risk-free rate, the market, equity

1 market beta, and the bond market, and the beta on the  
2 -- sorry. On interest rates.

3 MR. FULTON: Q: Right. So just so I'm clear in terms  
4 of stuff, it's the errors and other factors such as  
5 the movement in the long-term Canada bonds.

6 MS. McSHANE: A: That's captured in the second  
7 variable.

8 MR. FULTON: Q: Okay.

9 MS. McSHANE: A: The relative volatility in the equity  
10 market is accounted for. The risk-free rate is  
11 accounted for, because that's in the intercept. And  
12 it's the difference between what the actual return was  
13 over that whole period and what this equation on page  
14 93 would have predicted, given the market returns, the  
15 spread between the long Canada and T-bills over that  
16 period, and the average level of the risk-free rate is  
17 measured by the treasury bills.

18 MR. FULTON: Q: Can I distill that down to an essence  
19 that the 3.9 percent is a reasonable approximation?

20 MS. McSHANE: A: Of what, please?

21 MR. FULTON: Q: Of the difference between the  
22 calculated intercept and the average 90-day treasury  
23 bill return.

24 MS. McSHANE: A: Yes, that is the difference between  
25 the treasury bill return and the return that the rest  
26 of the equation captures.

1 MR. FULTON: Q: It's a reasonable approximation of the  
2 component of the utility return incremental to what  
3 the CAPM would predict.

4 MS. McSHANE: A: Right. Well, the CAPM with the two  
5 different -- it's not really the CAPM *per se*, it's the  
6 two variable model 1 -- one variable being the equity  
7 beta, if you will, and the other variable being the  
8 interest rate beta.

9 **Proceeding Time 11:47 a.m. T36**

10 MR. FULTON: Q: Page C-6 of your evidence.

11 MS. McSHANE: A: I have that.

12 MR. FULTON: Q: And on the second line in the first  
13 paragraph you discuss the issue of reliability and  
14 explain why it arises. So if you could read to  
15 yourself that paragraph beginning the second line down  
16 to the end of the paragraph, I'll ask you some  
17 questions.

18 MS. McSHANE: A: I've finished that.

19 MR. FULTON: Q: Okay. When investors are assessing  
20 whether to invest, or where to invest, are they  
21 restricting their analyses to, one, the growth  
22 expectations, or two, the growth and dividends, or  
23 three, are they looking at the total return that they  
24 can expect?

25 MS. McSHANE: A: Total return.

26 MR. FULTON: Q: Okay. And in terms of how they base

1           their expectations, are their expectations then based  
2           on all the information that they have available to  
3           them?

4 MS. McSHANE:    A:    Yes.

5 MR. FULTON:     Q:     And you would agree with me that  
6           analysts adjust their forecasts periodically?

7 MS. McSHANE:    A:    Yes.

8 MR. FULTON:     Q:     The next paragraph of your evidence  
9           talks about analysts' optimism?

10 MS. McSHANE:    A:    Yes.

11 MR. FULTON:     Q:     And you discussed analysts' optimism  
12           with Mr. Wallace this morning?

13 MS. McSHANE:    A:    I believe it was this morning.

14 MR. FULTON:     Q:     Yes.  And you talk of, in that second  
15           paragraph, of analysts' optimism becoming a high-  
16           profile issue during the irrational exuberance phase  
17           of the tech boom during the 1990s.  Would you agree  
18           with me that if in a period of irrational exuberance,  
19           investors' expectations are wildly unrealistic, those  
20           expectations are not the correct ones to use in a  
21           model?

22 MS. McSHANE:    A:    Not necessarily.

23 MR. FULTON:     Q:     Okay.  Why not?

24 MS. McSHANE:    A:    Because -- first of all, when we're  
25           talking about just as a caveat, we're not talking  
26           about utilities when we're talking about irrational

1 exuberance. But if -- and I should say that for the  
2 companies that would have been most affected by  
3 irrational exuberance, it would have been difficult to  
4 apply a discounted cash flow model in any effect  
5 because most of them wouldn't have been paying  
6 dividends. So the model really wouldn't have been  
7 applicable. But when I quickly said yes to your  
8 proposition, if the price of a stock reflects  
9 irrational expectations, or overly exuberant  
10 expectations, if I'm trying to figure out what the  
11 return that investors expect is, for me to say, well,  
12 I don't think those expectations are rational, I'm  
13 just going to cut 10 percent out of them, I won't be  
14 estimating the return that investors expect. I'll be  
15 estimating what I think should be reasonable. But if  
16 the price doesn't reflect that, then the number that  
17 I've come up with for an investor-expected return will  
18 be incorrect.

19 **Proceeding Time 11:53 a.m. T37**

20 MR. FULTON: Q: Thank you. Now, I want to move to the  
21 topic of counter-cyclical stocks, and that is a topic  
22 that I don't think we've had so far in this  
23 proceeding. I'm going to provide you with the  
24 definition that I understand comes from Investipedia,  
25 for counter-cyclical stock, and you can tell me if you  
26 agree with it or if you have another --

1 MS. McSHANE: A: Investipedia, the fount of all  
2 knowledge.

3 MR. FULTON: Q: Yes. So, it defines "counter-cyclical  
4 stock" as "a type of stock in which the underlying  
5 company belongs to an industry or niche with financial  
6 performance that is negatively co-related to the  
7 overall state of the economy. As a result, the  
8 stock's price will also tend to move in a direction  
9 that is opposite to the general economic trend,  
10 meaning appreciation occurs during times of recession  
11 and depreciations in value occur in times of economic  
12 expansion."

13 Would you agree with that definition of a  
14 counter-cyclical stock?

15 MS. McSHANE: A: It sounds about right.

16 MR. FULTON: Q: Okay. Now, if we go back to your  
17 Schedule 23, in Exhibit B1-32, you will agree with me  
18 that it shows the stage 1 growth at 7.5 percent,  
19 dropping to 5.9 percent in stage 2 for years 6 to 10,  
20 and dropping further for stage 3 to 4.3 percent.

21 MS. McSHANE: A: Right. So, reflecting the fact that  
22 these companies have at this point in time all  
23 relatively good growth prospects.

24 MR. FULTON: Q: Okay. You'll agree with me, though,  
25 that at the present time FEI is experiencing low  
26 growth?

1 MS. McSHANE: A: Yes.

2 MR. FULTON: Q: There is -- and there is a sluggish  
3 economic climate.

4 MS. McSHANE: A: Yes.

5 MR. FULTON: Q: Okay. So, given those two factors,  
6 doesn't Schedule 23 suggest that FEI is a counter-  
7 cyclical stock insofar as you're predicting high  
8 growth in the near term and slower growth further out?

9 MS. McSHANE: A: Sorry, I didn't follow that.

10 MR. FULTON: Q: Okay. Well, you've agreed with what  
11 the definition of counter-cyclical stock is. Right?

12 MS. McSHANE: A: Okay. FEI is not a stock, so --

13 MR. FULTON: Q: All right. Well, would you agree with  
14 me that FEI, then, appears to be a counter-cyclical  
15 company?

16 MS. McSHANE: A: No.

17 MR. FULTON: Q: Why not?

18 MS. McSHANE: A: So, FEI and Schedule 23 -- wait a  
19 minute. We're not talking about Schedule 23 right  
20 now. We're talking about definition of counter-  
21 cyclical and whether FEI is consistent with that  
22 definition.

23 MR. FULTON: Q: No, but we are talking about Schedule  
24 23 because it does show on the median numbers what's  
25 happening in terms of stage 1, stage 2 and stage 3  
26 growth, which all appear to be -- which are all

1 defined.

2 MS. McSHANE: A: I'm sorry, I'm not trying to be  
3 difficult, but -- so we have five companies on  
4 schedule 23. None of which are FEI. These five  
5 companies have, over the next five years, good growth  
6 prospects because they need to build infrastructure.

7 **Proceeding Time 11:58 a.m. T38**

8 MR. FULTON: Q: Yes, but -- I'll let you finish, Ms.  
9 McShane.

10 MS. McSHANE: A: I would not call them in principle  
11 counter-cyclical stocks, but at this point in time,  
12 given infrastructure requirements in North America  
13 they have good growth prospects. But that really  
14 doesn't have much to do with whether they are  
15 effectively counter-cyclical or not. It's sort of a  
16 function of, you know, what's required in terms of  
17 infrastructure investment at this point in time. FEI,  
18 within the context of what you read me as far as what  
19 constitutes counter-cyclical and FEI would be  
20 cyclical. I mean it's following the economy. Low  
21 growth, low growth. Low growth in the economy. FEI  
22 has low growth. Due to a number of factors, mind you,  
23 not all that have to do with the economy *per se* but --

24 MR. FULTON: Q: But in your model results on Schedule  
25 23, aren't you showing high growth in Stage 1 for  
26 those companies, trailing off into Stage 3?

1 MS. McSHANE: A: Correct, but that -- the trailing off  
2 doesn't have anything to do with cyclical. The  
3 trailing off has to do with the recognition that you  
4 can't maintain above normal growth rates into  
5 infinity. As I said, the high growth today for these  
6 specific companies reflects the fact that  
7 infrastructure is required. It's not to me reflective  
8 of them being counter-cyclical stocks. Yes, at this  
9 point in time they have good growth prospects because  
10 of infrastructure requirements and relatively speaking  
11 their growth prospects might be better than in the  
12 economy as a whole, but I don't see that as making  
13 them counter-cyclical stocks.

14 MR. FULTON: Q: All right, thank you. Pages C-6 and C-  
15 7 of your evidence.

16 MS. McSHANE: A: I have that.

17 MR. FULTON: Q: And at the bottom of page C-6 you refer  
18 to an article by Michael Keene and David Runcle titled  
19 "Are Financial Analysts' Forecasts of Corporate  
20 Profits Rational?"

21 MS. McSHANE: A: Yes.

22 MR. FULTON: Q: And you state that when the authors  
23 eliminated observations from their data sample based  
24 on the size of the negative special items, nearly  
25 eliminate evidence of mean optimism in their sample.

26 MS. McSHANE: A: Yes.

1 MR. FULTON: Q: Now, do I take it that what this means  
2 in simple terms is that the authors looked back at  
3 analysts' forecasts and the actual earnings of the  
4 sample companies, eliminated those with negative  
5 special items over a certain size, and based on the  
6 remainder of the sample the evidence of mean optimism  
7 was almost eliminated?

8 MS. McSHANE: A: That's my understanding, yes.

9 MR. FULTON: Q: And would you agree that on a hindsight  
10 basis for a study of analyst bias, such observations  
11 can be eliminated because the earnings have been  
12 reported?

13 **Proceeding Time 12:03 p.m. T39**

14 MS. McSHANE: A: Sorry, because they're been recorded?  
15 Reported?

16 MR. FULTON: Q: Reported.

17 MS. McSHANE: A: Yes, I'm not sure if I'm following  
18 exactly what you're asking. You have -- in order to  
19 do a study of optimism you have to have something to  
20 compare the forecast to. So it has to be something  
21 that's supported.

22 MR. FULTON: Q: Right.

23 MS. McSHANE: A: And so it depends how you interpret  
24 their reported data.

25 MR. FULTON: Q: On a forecast basis when the earnings  
26 are not known, would you agree that the negative items

1 cannot be eliminated and may or may not be included in  
2 the analysts' earning forecast?

3 MS. McSHANE: A: So when you're -- when you're  
4 forecasting, you're forecasting essentially a  
5 normalized operating earnings over a period of time.  
6 So, you wouldn't be including special negative items  
7 anyway.

8 MR. FULTON: Q: Right. And so to the extent that  
9 you're not including those special negative items,  
10 that the forecasts may be optimistic.

11 MS. McSHANE: A: I am not following that connection.  
12 The point about the elimination of the special  
13 negative items was that when you -- when you test for  
14 whether there was optimism, you have to look at what  
15 the forecast were and then you have to look at what  
16 the actuals were. And how you determine whether or  
17 not those actuals indicate optimism, pessimism or  
18 neutrality, depends on how you interpret the reported  
19 earnings. And if the reported earnings, you know,  
20 have a -- of some companies have a couple of special  
21 negative items in them that basically determine the  
22 outcome of your study, which appears to be what this  
23 article has suggested, that if you remove them, these  
24 special negative items, there's no longer any evi --  
25 that's over stating it.

26 The evidence of optimism is, you know,

1 almost gone.

2 MR. FULTON: Q: Okay, and to the extent that they are  
3 not removed, optimism remains.

4 MS. McSHANE: A: Well, that's -- I mean, that's what  
5 these people were testing. They were testing to see,  
6 you know, what effect these particular items had on  
7 the results of the study, and concluded that, you  
8 know, this seemed to be the item that was driving the  
9 study results. And removing those negative special  
10 items basically changed the results.

11 THE CHAIRPERSON: Ms. McShane, could I just clarify the--

12 MS. McSHANE: A: Sure.

13 THE CHAIRPERSON: When you say special negative items or  
14 items that couldn't have been predicted by the  
15 analysts, so then when you remove all those, you go  
16 right back to a fair result relative to forecast or  
17 what --

18 MS. McSHANE: A: Exactly.

19 THE CHAIRPERSON: Yes, okay.

20 MR. FULTON: This would be a good time to take the lunch  
21 break.

22 THE CHAIRPERSON: Let's do that. It's -- why don't we  
23 come back at 1:30.

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

25 **(PROCEEDINGS RESUMED AT 1:37 P.M.)**

**T39/40**

26 THE CHAIRPERSON: Please be seated.

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Mr. Ahmad?

MR. AHMAD: Mr. Chairman, I have two undertakings for filing. The first one is FortisBC Utilities' Undertaking Number 10. The transcript reference for this is page 333, lines 14 to 16. It was a request for an update of a table in the AMPCBC UC FBCU IR 1.4.1. I believe this should be B1-45.

THE HEARING OFFICER: B1-45.

**(RESPONSE - "FORTISBC UTILITIES UNDERTAKING**

**NO. 10", PAGE 333, LINES 14 TO 16, MARKED EXHIBIT B1-**

MR. AHMAD: And the second filing is FortisBC Utilities' Undertaking Number 11. Transcript reference for this is Volume 3, page 328, lines 4 to 14, and it was a request to provide a forecast of capital additions for the next five years, broken down into the categories of natural gas, NGT and biomethane. I believe that should be B-46.

THE HEARING OFFICER: B-46?

MR. AHMAD: B1-46. I apologize. The document itself says "B-46", but it should be B1-46.

**(RESPONSE - "FORTISBC UTILITIES UNDERTAKING**

**NO. 11", VOLUME 3, PAGE 328, LINES 4 TO 14, MARKED EXHIBIT B1-46)**

MR. GHIKAS: And before we move back to Mr. Fulton, Mr. Chairman, there was the issue that arose during my friend Mr. Hobbs's cross-examination of Ms. McShane

1           about her 2005 evidence, and the table that followed  
2           page 50 that he was referring to. What we're going to  
3           do is file page 51. And as I indicated before, the  
4           numbers that Mr. Hobbs was referring to are the same  
5           on both documents. There is just more. So in terms  
6           of reading the transcript, the numbers in the  
7           transcript are not going to change.

8   THE CHAIRPERSON:    Okay.

9   MR. GHIKAS:        But just for the purpose of clarity, my  
10           friend Mr. Hobbs and I, we have determined that it's  
11           fine to just file the document. And as I understand  
12           it, Ms. McShane doesn't need to make any further  
13           comment on the document.

14   THE CHAIRPERSON:    Okay, that's terrific.

15   MR. GHIKAS:        Thank you. So, in filing this one, this  
16           will be -- and I believe it's included in the  
17           documents you have before you. This would be B1-47.  
18           And that's page 51 of Ms. McShane's testimony. It's  
19           titled at the top "Testimony of Kathleen C. McShane".

20   THE CHAIRPERSON:    Oh, I see that.

21   MR. GHIKAS:        And there's a Table 7 on it, and it's marked  
22           at the bottom, page 51. So B1-47. And this relates  
23           -- so, just for context, this relates to Exhibit C4-14  
24           filed by Mr. Hobbs earlier today.

25   THE CHAIRPERSON:    Thank you, Mr. Ghikas.

26   MR. GHIKAS:        Thank you.

1 THE HEARING OFFICER: B1-47.

2 (DOCUMENT HEADED "TAB 2, TESTIMONY OF  
3 KATHLEEN C. MCSHARE", PAGE 51, MARKED EXHIBIT B1-47)

4 THE CHAIRPERSON: Mr. Fulton?

5 MR. FULTON: Thank you, Mr. Chair.

6 **CROSS-EXAMINATION BY MR. FULTON (Continued):**

7 MR. FULTON: Q: Good afternoon, Ms. McShane.

8 MS. McSHANE: A: Good afternoon.

9 MR. FULTON: Q: I'd like to begin with Schedules 19 and  
10 21 to your evidence.

11 MS. McSHANE: A: I have those.

12 MR. FULTON: Q: And specifically the line entry for  
13 Piedmont Natural Gas on both those schedules. Would  
14 you agree with me that the estimate in Schedule 19 for  
15 the Bloomberg -- for Piedmont Natural Gas is based on  
16 a Bloomberg forecast that has two analysts' estimates?

17 MS. McSHANE: A: The Bloomberg has two estimates?

18 MR. FULTON: Q: Yes.

19 MS. McSHANE: A: That --

20 MR. FULTON: Q: I've provided your counsel --

21 MS. McSHANE: A: I'm not positive.

22 MR. FULTON: Q: -- prior to lunch today with attachment  
23 24B of Exhibit B1-9, which was from -- oh, it's from  
24 B1-19, I'm sorry. Yes.

25 MS. McSHANE: A: Yes, that's right. I can see that on  
26 this table.

**Proceeding Time 1:42 p.m. T42**

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MR. FULTON: Q: So you would agree with me then that the Bloomberg forecasts for the Piedmont Natural Gas estimate is based on two analysts' estimates.

MS. McSHANE: A: Correct.

MR. FULTON: Q: Okay. And does that cause you any concern about the accuracy of the estimates when they're based on such a low number of analysts' estimates?

MS. McSHANE: A: Obviously it would be preferable to have more than less, but that's why I have various sources rather than just Bloomberg or just Value Line or just Reuters.

MR. FULTON: Q: Now, in terms of those other forecasts, Bloomberg, Reuters, Value Line and Sachs, to what extent would you expect any of those analysts' forecasts to duplicate any of the other analysts' forecasts within that group?

MS. McSHANE: A: There may be some duplications. Certainly not in Value Line. Value Line is separate. The Value Line forecasts as far as I know don't appear in any of the others, but there may be some overlap where analysts contribute to both sources.

MR. FULTON: Q: And based on your expertise would you expert there to be some real likelihood of overlap in some of the cases?

1 MS. McSHANE: A: I would say that's fair because there  
2 are only a limited number of utility analysts.

3 MR. FULTON: Q: Okay. Now, given that there is that  
4 potential for overlap, would the growth forecast be  
5 potentially biased one way or the other due to the  
6 double weighting of a particular analyst's earnings  
7 estimate?

8 MS. McSHANE: A: I don't see any reason why there  
9 should be any systematic bias one way or the other.

10 MR. FULTON: Q: Okay, and why not?

11 MS. McSHANE: A: Because there's no reason to believe  
12 that an analyst who happens to be high or low is going  
13 to be systematically double represented.

14 MR. FULTON: Q: Okay. But certainly the estimates, if  
15 they include estimates of the same analyst twice,  
16 isn't that a cause for concern from a weighting  
17 standpoint? So if the Bloomberg's estimate is relying  
18 on an estimate of one of the Sachs estimates and vice  
19 versa, isn't there a concern in terms of what the  
20 numbers ultimately are -- the numbers that are  
21 ultimately being derived?

22 MS. McSHANE: A: I don't think so. I mean, because I  
23 don't believe that there's any particular, as I said,  
24 you know, systematic bias one way or the other in  
25 terms of where a particular analyst stands relative to  
26 the median or the mean value.

1 MR. FULTON: Q: All right, well while there may not be  
2 systematic bias, might there be some unsystematic then  
3 issues that arise in terms of the ultimate numbers  
4 that are derived?

5 MS. McSHANE: A: My personal view is that it's better  
6 to have all of the sources rather than just one. I  
7 understand that what you are suggesting, but I don't  
8 see that when you've got four different sources that  
9 there's any real reason for concern that there's --  
10 I'm not sure, we don't like the word "bias" but that  
11 there's really a concern with double counting.

12 MR. FULTON: Q: If you could turn to Exhibit B1-20, the  
13 response to BCUC IR 1.52.1 and it's at page 120

14 **Proceeding Time 1:47 p.m. T43**

15 Mr. Chairman?

16 MS. McSHANE: A: I have that.

17 MR. FULTON: Q: Yes. And the part of the response that  
18 I want to focus on is the last half of the response,  
19 where it's stated:

20 "In the absence of inflation and  
21 technological gains, the market value of  
22 assets should approximate its book value.  
23 However, those caveats do not reflect  
24 reality particularly in the case of public  
25 utilities, where persistent inflation over  
26 time results in the book value of the assets

1           understating their true economic value.  
2           When the regulatory paradigm is based on  
3           historical cost of the assets, but the  
4           allowed return represents a capital market  
5           derived return applied to the book value of  
6           the equity, with the underlying premise for  
7           the allowed return is that the utility  
8           market value should equal book value, the  
9           resulting prices will understate the real  
10          economic costs of providing utility services  
11          and send price signals to customers that  
12          encourage overconsumption of scarce  
13          resources."

14                        Is it your view that if a utility is  
15          purchased for a premium over book value, in order to  
16          reflect the real economic costs of providing utility  
17          services, the new rates should be based on a rate base  
18          that includes the acquisition premium?

19 MS. McSHANE:    A:    I think I was asked that question in  
20          an Information Request.  And my response to that was  
21          that it really depends.  To the extent that there are  
22          benefits that are brought to bear from the  
23          acquisition, I think a case could be made for that.  
24          But that -- I mean, that's not the regulatory model  
25          that -- typically that is used in North America.  So,  
26          acquisition premiums are to the account of the



1 MS. McSHANE: A: Relatively speaking that's true. The  
2 utility assets are of lower risk than an average --  
3 the assets of an average risk company in the economy.

4 MR. FULTON: Q: Okay. And I'd like next to turn to  
5 Exhibit B1-24, which are the responses to BCUC IR 2,  
6 and I would ask you to turn the response to question  
7 2.194.5 which is at page 107. Page 107.

8 MS. McSHANE: A: I have that.

9 MR. FULTON: Q: Now, can we agree that that response  
10 discusses how you came up with your long-range GDP  
11 forecast in Schedule 21?

12 MS. McSHANE: A: Yes.

13 MR. FULTON: Q: And the response shows a table of  
14 nominal GDP growth for the years 1989 to 2011.

15 MS. McSHANE: A: Well, that's part of the response but  
16 that doesn't have anything to do with how I came up  
17 with the 4.9 percent. So the first -- the question  
18 had multiple requests. The first request was: What  
19 are the assumptions used to estimate the long-term  
20 nominal GDP growth rate of 4.9 percent in Schedule 21?  
21 So the first paragraph of the response says that it  
22 came from a consensus forecast of blue chip economic  
23 indicators, which is the consensus of forecasts of  
24 more than 50 business economists.

25 And then the second part of the question  
26 is: What were the associated assumptions of inflation

1 in real growth that were incorporated in the 4-9? And  
2 I provided those in the second paragraph. And then it  
3 asks if that forecast had changed and I gave enough  
4 update and said that it was based on October it was 4-  
5 8. And then the table down below was a response to  
6 the question: What's the actual experience of GEP  
7 been in recent years? So that's what the table  
8 represents.

9 MR. FULTON: Q: And would you agree with me subject to  
10 check that the average rate of growth that's shown in  
11 the table is 4.7 percent?

12 MS. McSHANE: A: I haven't done that calculation, but  
13 it's possible.

14 MR. FULTON: Q: Okay.

15 MS. McSHANE: A: I will take that subject to check.

16 MR. FULTON: Q: Okay. And that would be the nominal  
17 average rate of growth.

18 MS. McSHANE: A: Correct.

19 MR. FULTON: Q: Now, I produced to your counsel a copy  
20 of the TD Economics Long-Term Economic Forecast dated  
21 September 18<sup>th</sup>, 2012. Have you had a chance to review  
22 that document?

23 MS. McSHANE: A: I did look at it, yes.

24 MR. FULTON: And I see that Mr. Wallace is not alone in  
25 being abandoned by the Hearing Officer when it comes  
26 time to --

1 THE CHAIRPERSON: Thank you. Do you have an exhibit  
2 number on there?

3 MR. FULTON: Yes. A2-37 please.

4 THE CHAIRPERSON: 37?

5 THE HEARING OFFICER: A2-37.

6 (**"LONG-TERM ECONOMIC FORECAST, TD ECONOMICS, SEPTEMBER**  
7 **18, 2012", MARKED EXHIBIT A2-37)**

8 **Proceeding Time 1:57 p.m. T45**

9 MR. FULTON: Q: You would agree with me that through  
10 the period covered by the table, the annual U.S.  
11 growth rate forecast for the years 2012 to 2016 ranges  
12 from 2 to 3.5 percent in real terms?

13 MS. McSHANE: A: Correct. So this forecast goes out to  
14 2016, right?

15 MR. FULTON: Q: Yes.

16 MS. McSHANE: A: That's what I understand.

17 MR. FULTON: Q: Yes. And that in terms of the Canadian  
18 growth forecast on an annual basis, the forecast is  
19 1.8 to 2.5 percent in real terms in the same period.

20 MS. McSHANE: A: Right. That's what the TD forecast  
21 shows.

22 MR. FULTON: Q: Okay. And then it falls out  
23 mathematically, then, that the Canadian growth rate in  
24 real terms is approximately 0.2 to 1 percent lower  
25 than the U.S. growth rate over that period of time.

26 MS. McSHANE: A: Correct.

1 MR. FULTON: Q: Okay. I now have some questions on  
2 your rebuttal evidence. We're on to rebuttal  
3 evidence, your part of it. If you turn to page 12.

4 MS. McSHANE: A: Yes, I have that.

5 MR. FULTON: Q: And I'll just give you the line number.  
6 Line 314 to 315, you state,

7 "Investor return expectations are likely to  
8 be formed by the returns that they have  
9 achieved historically."

10 Are those historical achieved returns observable at  
11 any point, given point in time?

12 MS. McSHANE: A: Yes. Over various periods, yes.

13 MR. FULTON: Q: And does it follow, then, as well that  
14 the growth in historical achieved terms is observable?

15 MS. McSHANE: A: Sorry, is -- I didn't hear exactly  
16 what you said.

17 MR. FULTON: Q: Does it follow, then, that the growth  
18 in historical achieved terms is observable? So you  
19 can observe the historical achieved returns at any  
20 given point in time. You've agreed with me on that.

21 MS. McSHANE: A: Yes.

22 MR. FULTON: Q: And so can you also observe the growth  
23 in the achievable returns -- or in the achieved  
24 returns, I should say.

25 MS. McSHANE: A: Do you mean, can you observe whether  
26 the trend in the returns has changed? Is that what



1       likely to be formed by achieved historical returns,  
2       and you can observe achieved historical returns,  
3       wouldn't it be more direct to base the growth  
4       expectations on the growth of historical -- on the  
5       growth that's shown in achieved historical returns?

6 MS. McSHANE:    A:    So just to make sure I understand what  
7       you're asking, are you asking me that isn't it in the  
8       context of the discounted cash flow test to combine a  
9       forward-looking dividend yield with a historic growth  
10      rate?

11 MR. FULTON:     Q:     If investors' expectations are based on  
12      the historic growth rate, why can't you use that in  
13      your DCF?

14 MS. McSHANE:    A:     The investors' expectations will be in  
15      part informed by history. To the extent that history  
16      is relevant they should be -- that history should be  
17      reflected in the forward-looking analysts' forecasts.  
18      Analysts' forecasts have been shown to be better  
19      predictors of growth than historic numbers, so I think  
20      it is best to use, in the context of the DCF, the  
21      analysts' forecasts as the best measure of investor  
22      expectations.

23 MR. FULTON:     Q:     Would you agree with me that one  
24      doesn't know the extent to which those historic  
25      achieved returns are embedded into the analysts'  
26      forecasts.

1 MS. McSHANE: A: You can't be sure the extent to which  
2 investment analysts are embedding, to use the term you  
3 used, history into their expectations, but it would be  
4 reasonable to expect that they have looked at what the  
5 companies have been able to do in the past to assess  
6 what they should reasonably be expected to achieve in  
7 the future.

8 MR. FULTON: Q: Thank you. Page 17 of rebuttal  
9 evidence, your rebuttal evidence, and beginning -- the  
10 paragraph beginning at line 452 and concluding at 459.

11 MS. McSHANE: A: I have that.

12 MR. FULTON: Q: So it's page 17.

13 MS. McSHANE: A: Yes.

14 MR. FULTON: Q: And I want to focus on the statement  
15 that the earnings growth forecast for the companies in  
16 the index is approximately 11 percent arterially  
17 higher than the 6.3 percent sustainable growth rate as  
18 estimated by Dr. Booth.

19 In the current economic climate, and given  
20 recent historical achieved returns, does an annual  
21 growth forecast of 11 percent seem reasonable to you?

22 MS. McSHANE: A: For those companies for the next five  
23 years?

24 MR. FULTON: Q: Yes.

25 MS. McSHANE: A: Yes, I would say it's not  
26 unreasonable. But it's only for the next five years.





1 MR. FULTON: Q: Okay. Can you tell us what you mean by  
2 "revenue decoupling"?

3 MS. McSHANE: A: What I mean by "revenue decoupling" is  
4 that there is a mechanism that would either refund or  
5 recover amounts from customers that are due to higher  
6 or lower volumes that are -- that arise from changes  
7 in customer usage. And it can include weather, as  
8 well, or weather may be a separate mechanism.

9 MR. FULTON: Q: Okay. And to put it another way, would  
10 you -- or could one say that revenue decoupling  
11 removes the link between sales and revenues and  
12 therefore makes the utility indifferent as to the  
13 effects of conservation and other policy objectives?

14 **Proceeding Time 2:13 p.m. T48**

15 MS. McSHANE: A: I've heard that definition before in  
16 exactly those words. Yes, that's exactly what it is.

17 MR. FULTON: Q: Okay, all right, you'd agree with that  
18 definition?

19 MS. McSHANE: A: Yes, I would.

20 MR. FULTON: Q: All right, thank you. And would you  
21 consider the existence of deferral accounts a type of  
22 revenue to coupling mechanism?

23 MS. McSHANE: A: No. I wouldn't consider that to be  
24 the same thing. Certain deferral accounts mitigate  
25 forecasting risks but the purpose of them is not as  
26 you describe revenue to coupling.

1 MR. FULTON: Q: If you could turn over to page 128  
2 where you talk about rate stabilization mechanisms, on  
3 the second line you say:

4 "FEI's RSAM is a decoupling mechanism, not a  
5 rate stabilization mechanism, despite its  
6 name."

7 Can you tell us what the difference is?

8 MS. McSHANE: A: So you described what a decoupling  
9 mechanism was. When I was referring here to a rate  
10 stabilization mechanism which a couple of the  
11 utilities in my sample have, the rate stabilization  
12 mechanism simply is a way to adjust rates to ensure  
13 that the utility can earn its allowed return.

14 So for example in the case of Piedmont  
15 Natural Gas in its South Carolina operations, I don't  
16 recall specifically what its allowed return is, but  
17 let's say its allowed return is 10 and a half percent,  
18 if it looks like their return is going to be 9 and a  
19 half percent or 11 and a half percent, then the rates  
20 will be changed to bring the allowed return back to --  
21 I'm sorry, to bring the earned return back to  
22 approximately the allowed return.

23 MR. FULTON: Q: If I could return to your statement on  
24 page 127 that risk mitigation is a byproduct of  
25 revenue to coupling but not its primary objective,  
26 would you agree that business risk is mitigated

1 through the existence of decoupling mechanisms,  
2 through the existence of deferral accounts, and -- or  
3 through the existence of rate stabilization  
4 mechanisms?

5 MS. McSHANE: A: I don't disagree that all of those  
6 things have the effect of reducing short-term year-to-  
7 year variability risk. My only point here was just to  
8 say that regulators have introduced revenue decoupling  
9 for purposes which don't have any -- which are not for  
10 the purpose of reducing risk, but that that is one of  
11 the effects of that, at least as affects short-term  
12 risk.

13 MR. FULTON: Q: Now, I may not have given this document  
14 to your counsel, but it part of the record so I'll  
15 pass it to him now and I'll give it to you. It's a  
16 slide, Slide 17 from the AVS Consultant study that was  
17 filed by Corix and is included in Exhibit B2-9,  
18 Attachment 8.2(a). And I apologize for you not  
19 getting that in advance, Ms. McShane.

20 MS. McSHANE: A: That's quite all right.

21 Sorry, this was -- was this part of a  
22 study?

23 **Proceeding Time 2:19 p.m. T49**

24 MR. FULTON: Q: Yes, the ADS Consultants study that was  
25 filed by Corix as an attachment to its evidence. And  
26 the conclusion in the study is that revenue decoupling

1           -- sorry. It appears to be that revenue decoupling  
2 mechanisms have no impact on the systematic risk of  
3 utilities. Would you agree with that?

4 MS. McSHANE:   A:   That's not something I've really  
5 thought about.

6 MR. GHIKAS:    Mr. Chairman, I'm just rising because I  
7 think it's important that without having seen the  
8 analysis that leads up to the statement that Ms.  
9 McShane not be asked to adopt a conclusion that  
10 presumes that she agrees with all of the analysis  
11 leading up to it. So if my friend wants to formulate  
12 a question that's in the abstract, that would be my  
13 preference. Because I think until Ms. McShane sees  
14 the context leading up to it, it's difficult to ask  
15 her whether she agrees with the simple conclusion.

16 MR. FULTON:    Q:   Right. Well, let me ask you a general  
17 question, then. Would you agree that revenue  
18 decoupling mechanisms have no impact on the systematic  
19 risk of utilities.

20 MS. McSHANE:   A:   Well, if you think about what  
21 systematic risk is intended to capture, which would  
22 be, you know, how stocks react to factors like, you  
23 know, how the whole equity market moves, how they move  
24 in relation to movements in the economy, movements in  
25 oil prices, movements in interest rates, those kinds  
26 of systematic things. I mean, intuitively I would say

1           decoupling probably had little impact on beta. But I  
2           haven't looked at this study, and so, you know, I  
3           don't know what -- how the analysis was conducted.  
4           And whether it's measuring betas the way they should  
5           be measured to capture those kinds of differences. So  
6           all I can give you is my intuition.

7 MR. FULTON:    Q:   All right. Well, thank you, then. And  
8           you will have the opportunity to look at the entire  
9           study if you wish. And if your view changes, I'm sure  
10          that we'll hear that on re-examination.

11 MS. McSHANE:   A:   Okay.

12 MR. FULTON:    So, Mr. Chairman, could we mark that  
13          document the next exhibit, if we have not already?  
14          A2-38?

15 THE HEARING OFFICER:   That's A2-38.

16 MR. FULTON:    Which is page 17 of attachment 8.2A.  
17           **("ATTACHMENT 8.2(A), PAGE 17 OF 18, RESULTS OF**  
18           **DIFFERENCES IN SYSTEMATIC RISK", MARKED EXHIBIT A2-38)**

19 MR. FULTON:    Q:   Of Exhibit B2-9.

20                   If you could turn back to Appendix B of  
21           your evidence. Page B-5 and B-6. And these pages  
22           relate to details of some of the utilities collected  
23           from your sample of low-risk U.S. utilities?

24                                   **Proceeding Time 2:24 p.m. T50**

25 MS. McSHANE:   A:   Right.

26 MR. FULTON:    Q:   And pages B-5 and B-6 relate to Alliant

1 Energy Corp?

2 MS. McSHANE: A: Right.

3 MR. FULTON: Q: About halfway down page 6, B-6, it  
4 talks about deferral mechanisms and in particular for  
5 IPL, which I understand is Interstate Power and Light?

6 MS. McSHANE: A: Correct.

7 MR. FULTON: Q: And it states that "IPL was authorized  
8 to implement a pilot transmission cost recovery  
9 mechanism for a three-year term. The rider was  
10 implemented in conjunction with a three-year rate-base  
11 freeze in reduction and allowed ROE of .40 percent."  
12 Would you agree that that provides us with some  
13 insight that deferral mechanisms actually reduce  
14 risks, and that's why we see a reduction in the  
15 allowed ROE? Is that a reasonable inference to draw  
16 from that summary?

17 MS. McSHANE: A: Well, the reasonable inference to draw  
18 is that at least at some level, that there is a  
19 reduction -- viewed as a reduction in risk, yes.  
20 Whether there's a particular -- actually with this one  
21 or not, I mean, that's a different question. But I  
22 mean, this Commission has introduced reductions in ROE  
23 for, for example, the implementation of RSAMs.

24 MR. FULTON: Q: I produced yesterday to your counsel an  
25 extract from the decision of the Oregon Public Utility  
26 Commission, Order No. 09-176. Have you had an

1 opportunity to review that extract?

2 MS. McSHANE: A: Yes, I did look at it.

3 MR. FULTON: Q: Okay, and would you agree with me that  
4 the decision related to a proposal by Portland General  
5 Electric for decoupling mechanisms related to energy  
6 efficiency programs?

7 MS. McSHANE: A: It's a decoupling mechanism I'm  
8 looking for. I mean it is related -- they are all  
9 related to energy efficiency, yes, so I agree with  
10 you.

11 MR. FULTON: Q: And then in the introduction the  
12 statement appears to be on the second line:

13 "Among our conclusions was the determination  
14 that because "PGE does have the ability to  
15 influence customer usage we believe that a  
16 properly constructed decoupling mechanism  
17 would promote behaviour by the Company that  
18 would be publicly beneficial'."

19 And then it goes on to say:

20 "Among the conditions were an initial  
21 limitation on the length of the program, the  
22 two years subject to review, and a 10 basis  
23 point reduction in return on equity."

24 Would you agree with me that this appears  
25 to be another example of where the introduction of a  
26 certain type of decoupling mechanism resulted in a

1 reduction of ROE?

2 MS. McSHANE: A: Yes, this was another example of that.

3 **Proceeding Time 2:29 p.m. T51**

4 MR. FULTON: Q: Can we infer from both the Alliant  
5 Energy example and the Portland General Electric  
6 example that a reduction -- that the reduction in ROE  
7 is the result of the decoupling mechanism and  
8 decoupling mechanisms actually reduce the level of  
9 risk for a utility?

10 MS. McSHANE: A: Decoupling mechanisms do assist in  
11 helping to recover the fixed costs and earn a return  
12 from year to year, so they do reduce short-term risk.

13 MR. FULTON: Q: And depending upon the nature of the  
14 deferral accounts, if they have a revenue decoupling  
15 aspect, would you agree that the more accounts of that  
16 nature a utility has, the lower the level of risk it  
17 faces?

18 MS. McSHANE: A: In terms of the year-to-year  
19 variability, the more of the revenue requirement  
20 that's assured, I would say that there is less  
21 forecasting risk. So there is less short-term risk.

22 MR. FULTON: Q: And so would the way that you measured  
23 the level of the risk be determined by the number of  
24 deferral accounts, or revenue decoupling mechanisms,  
25 that assist in the reduction -- assist in ensuring  
26 what the revenue -- that the utility will get its

1 return.  
2 MS. McSHANE: A: No, I don't think you would look at  
3 the number. You'd be more concerned about what  
4 percentage of the costs are recovered by these -- by  
5 the mechanisms. And then, of course, you would need  
6 to see how that compares to comparable companies. So,  
7 from the perspective of a gas utility, for example,  
8 and I think that there was a discussion about this the  
9 other day with panel 1, a significant amount of their  
10 costs are gas costs, and those are recovered through  
11 gas cost recovery -- I can't remember what the  
12 acronyms are any more. But that, you know, that's  
13 basically the same as every other gas utility. And  
14 then you have the RSAM, which a lot of gas utilities  
15 have RSAM-type accounts and weather normalization  
16 accounts. So on that front, FEI is fairly similar to  
17 other gas utilities. I think -- so it's a combination  
18 of looking at what proportion is covered and how does  
19 the utility compare to its peers.

20 MR. FULTON: Q: Thank you.

21 Could we mark the extract from the Oregon  
22 Public Utility Commission, Order 09-176, the next  
23 exhibit, please?

24 THE HEARING OFFICER: A2-39.

25 **(EXTRACT FROM ORDER NO. 09-176 FROM PUBLIC UTILITY**  
26 **COMMISSION OF OREGON, MARKED EXHIBIT A2-39)**

**Proceeding Time 2:34 p.m. T52**

1  
2 MR. FULTON: Q: I'd next like to ask some questions on  
3 your response to BCUC IR 49.6 in B1-20 which is page  
4 116 of B1-20, and I do have some copies of electronic  
5 documents and the first is a rating report of DBRS  
6 dated February 29<sup>th</sup>, 2012. Do you have a copy of that?  
7 Okay. And the second is a Moody's investor credit  
8 opinion dated July the 21<sup>st</sup>, 2011. Perfect.

9 So I will ask first of all that the DBRS  
10 report dated February 29, 2012, which is part of  
11 Exhibit B1-9-1, tab A-2, be marked the next exhibit  
12 please. And then -- which would be A2-40, and then a  
13 Moody's report which is part of Exhibit B1-9-1 be  
14 marked Exhibit A2-41.

15 **(RATING REPORT, FEBRUARY 29, 2012 FROM DBRS, MARKED**  
16 **EXHIBIT A2-40)**

17 **(DOCUMENT HEADED "MOODY'S INVESTORS SERVICE, CREDIT**  
18 **OPINION: FORTISBC ENERGY INC.", MARKED EXHIBIT A2-41)**

19 MR. FULTON: Q: Now, if we begin with the response to  
20 the IR, that response shows that under a debt/equity  
21 ratio of 40/60, FEI's cash flow from operations  
22 interest coverage ratio is 2.6 times and its cash flow  
23 from operations pre-working capital debt is 10.8  
24 percent?

25 MS. McSHANE: A: Yes.

26 MR. FULTON: Q: And that under an assumed reduction in

1 the deemed common equity of 2 percent, are estimated  
2 to be 2.5 times and 10.2 percent. Correct?

3 MS. McSHANE: A: Sorry, can I just have a second to  
4 just refresh my memory on this question?

5 MR. FULTON: Q: Absolutely.

6 MS. McSHANE: A: Sorry, go ahead.

7 **Proceeding Time 2:39 p.m. T53**

8 MR. FULTON: Q: So, you'll agree with me that under an  
9 assumed reduction the deemed common equity of 2  
10 percent, the ratios are estimated to be 2.5 times and  
11 10.2 percent.

12 MS. McSHANE: A: At the actual 2011 ROE, I believe.  
13 Only a reduction in the common equity ratio.

14 MR. FULTON: Q: Yes. And have you read the rest of the  
15 response to 49.6?

16 MS. McSHANE: A: Yes.

17 MR. FULTON: Q: And in that response you speak of -- in  
18 the light of the trend toward thicker equity ratios in  
19 other Canadian jurisdictions in recent decisions --  
20 and then you also talk about Moody's expectation of  
21 stronger metrics. I want to focus on the trend  
22 towards thicker equity ratios in other Canadian  
23 jurisdictions.

24 What do you base your statement on that  
25 there is a trend towards thicker equity ratios in  
26 other Canadian jurisdictions?

1 MS. McSHANE: A: There are -- at the National Energy  
2 Bard, there have been changes, increases, in the  
3 allowed common equity ratios for a number of the  
4 Canadian pipelines since the last decision as well as  
5 the increases for all the Alberta utilities in 2009,  
6 and confirmed in 2011.

7 MR. FULTON: Q: The OEB, though, did reject Union Gas's  
8 application for an increase from 36 to 40 percent, did  
9 they?

10 MS. McSHANE: A: Yes, they did.

11 MR. FULTON: Q: Okay. Now, if you look at A2-40, which  
12 is the DBRS report, the second paragraph of that  
13 report, about midway down, states:

14 "The regulatory framework in British  
15 Columbia is viewed as reasonable in terms of  
16 cost recovery, returns on equity, ROE of 9.5  
17 percent, and capital structure 40 percent.  
18 Although FEIs, ROE, and capital structure  
19 could be affected in 2013 to a regulatory  
20 review (see regulation) DVRS does not expect  
21 the outcome of the regulatory review to have  
22 a material impact on the company's earnings  
23 and cash flow."

24 So, that was DBRS's view as of September the -- as of  
25 February the 29<sup>th</sup>, 2012. Correct?

26 MS. McSHANE: A: Well, that says to me that they didn't

1           expect there to be material changes. But that's my  
2           interpretation of what they're saying.

3 MR. FULTON:   Q:   Okay. And then if you turn to Exhibit  
4           A2-41, the Moody's Investor Service Report of July  
5           21<sup>st</sup>, 2011, and turn to the third page of that report,  
6           under the heading "What could change the rating -  
7           down?", and the comment appears:

8                        "Notwithstanding FEI's low-risk business  
9                        profile, its financial profile is considered  
10                      weak at the A-3 senior unsecured rating  
11                      level. Accordingly, a sustained weakening  
12                      of FEI's cash flow interest coverage below  
13                      2.3 times and CFO pre-W/C debt below 8  
14                      percent combined with a less supportive and  
15                      predictable regulatory framework would  
16                      likely return in a downgrade of FEI's  
17                      rating. This could occur if gas were to  
18                      lose its competitive advantage over  
19                      electricity in British Columbia due to  
20                      provincial policies favouring non-carbon-  
21                      emitting energy sources and other factors."

22                      Would you agree that on the numbers  
23                      available to date, it doesn't appear that FEI will  
24                      lose its competitive edge?

25                                        **Proceeding Time 2:44 p.m. T54**

26 MS. McSHANE:   A:   Well, the statement references not

1 prices, but it says gas losing its competitive  
2 advantage due to provincial policies favouring non-  
3 carbon-emitting energy sources or other factors.

4 MR. FULTON: Q: Well, you'll agree with me that the  
5 carbon tax is under review?

6 MS. McSHANE: A: Yes.

7 MR. FULTON: Q: And would you also agree with me that  
8 the new natural gas policy is more friendly towards  
9 FEI than was previously the case?

10 MS. McSHANE: A: In one specific application.

11 MR. FULTON: Q: Yes.

12 MS. McSHANE: A: That being natural gas transportation,  
13 which is, as was discussed, expected to be relatively  
14 small impact at least over the next five years.

15 MR. FULTON: Q: I have some questions now about what  
16 the change might be in the embedded costs of debt if  
17 there was a downgrade to B Double-A. And if you could  
18 -- we can begin with your evidence, your rebuttal  
19 evidence actually, page 5, footnote 6.

20 MS. McSHANE: A: I have that.

21 MR. FULTON: Q: And can we agree that the marginal  
22 costs of long-term debt in the examples is  
23 approximately 4 percent and that the current embedded  
24 cost of debt is 6.78 percent?

25 MS. McSHANE: A: The 4 percent is basically the rate  
26 for an A rated utility for 30-year debt today.

1 MR. FULTON: Q: The difference between the two numbers  
2 is 278 basis points?

3 MS. McSHANE: A: Yes.

4 MR. FULTON: Q: And you'll agree with me that the debt  
5 rating agencies don't evaluate credit metrics using  
6 the marginal costs of debt but they use the embedded  
7 costs of debt?

8 MS. McSHANE: A: Yes.

9 MR. FULTON: Q: Would you agree with me that the  
10 refinancing of embedded debt with new lower cost  
11 marginal debt under current conditions is beneficial  
12 to the rating agency credit metrics over time, the  
13 rating agency base credit metrics over time?

14 MS. McSHANE: A: If you can -- all other things equal,  
15 and that includes your allowed ROE, if you can -- and  
16 your capital structure. If you can refinance at lower  
17 than embedded costs it will improve your credit  
18 metrics. That does assume the same capital structure.

19 **Proceeding Time 2:49 p.m. T55**

20 MR. FULTON: Q: And you don't need to turn to this  
21 unless you want to, but will you agree with me that in  
22 the rebuttal evidence at page 6, you have raised a  
23 concern that a downgrade to B Double-A rating category  
24 could significantly raise FEI's costs of new long-term  
25 debt?

26 MS. McSHANE: A: Yes.

1 MR. FULTON: Q: And do I understand your concern  
2 correctly to be that it relates to a rise in the  
3 marginal cost of debt which is currently assumed to be  
4 4 percent?

5 MS. McSHANE: A: Well, it would be -- it's not just  
6 what you finance today. But if -- as you go out in  
7 time and you need to refinance maturing debt, for  
8 example, it will impact those rates as well. And you  
9 won't necessarily be, and probably won't be,  
10 refinancing a lot of your existing debt at 4 percent  
11 if you -- if interest rates do, as is expected,  
12 normalize. So I think from my own perspective it  
13 would be fairly short-sighted to assume that it's okay  
14 to be B Double-A rated now, because interest rates  
15 happen to be low in 2013.

16 MR. FULTON: Q: Would a downgrade to B Double-A rating  
17 cause the marginal cost of debt to rise more than the  
18 278 basis points up towards FEI's embedded cost of  
19 debt?

20 MS. McSHANE: A: No. But as you refinance, you would  
21 see an increased cost. So, if you get out to when  
22 some of the large amounts of debt become due -- I've  
23 forgotten what the years are, maybe -- I'm going to  
24 say 2016. Then we're talking refinancing at rates  
25 that could be significantly higher at a B Double-A  
26 than at an A. And this is something that perpetuates

1           over time.

2 MR. FULTON:    Q:    Okay.  Would you agree with me that

3           even with a 4 percent number, for Canada, you wouldn't

4           expect the spread to go up 278 basis points?  Wouldn't

5           it be more in the range of 190 basis points?

6 MS. McSHANE:   A:    I'm sorry, I don't know what the 190

7           basis points represents.

8 MR. FULTON:    Q:    It's the Triple-B spread.

9 MS. McSHANE:   A:    Over 30-year Canadas?

10 MR. FULTON:    Q:    Yes.

11 MS. McSHANE:   A:    I'm not sure how that relates to the

12           678.

13 MR. FULTON:    Q:    No, the 278.

14 MS. McSHANE:   A:    So, the difference is 278.

15 MR. FULTON:    Q:    Yes.

16 MS. McSHANE:   A:    Between what the embedded cost of debt

17           is today and the cost of new debt to an A-rated

18           utility, which is a spread of about -- for an A-rated

19           utility is a spread of about -- is 150 basis points.

20 MR. FULTON:    Q:    So if you take the 190 on a Triple-B --

21 MS. McSHANE:   A:    Right.

22 MR. FULTON:    Q:    -- plus the 4 percent.

23 MS. McSHANE:   A:    No, I think that's not right.

24 MR. FULTON:    Q:    Why isn't it right?

25 MS. McSHANE:   A:    The 4 percent already includes a

26           spread for A-rated utilities of, say, 150 basis

1 points. So the differential is -- for new debt, could  
2 be an additional 40 basis points per issue, or more,  
3 if the market views a decision to explicitly cause a  
4 reduction in rating to Triple-B.

5 **Proceeding Time 2:55 p.m. T56**

6 MR. FULTON: Q: Your new Canada yield is approximately  
7 4 percent. If you take the --

8 MS. McSHANE: A: I'm sorry. I think we're talking  
9 about two different 4 percents. Maybe that's the  
10 problem.

11 MR. FULTON: Q: All right, so let's try this again so  
12 that the record is clear. Your new Canada yield is 4  
13 percent based on the 30-year forecast.

14 MS. McSHANE: A: Oh, see, that's where we weren't  
15 clear. Okay. Because the number that's in footnote 6  
16 that we were talking about is not the 4 percent Canada  
17 rate. So we want to discuss -- if over the next  
18 couple of years, if the Canada rate, 30-year Canada  
19 rate is 4 percent and we have a spread of say 150  
20 basis points for an A-rated utility, then there were  
21 about 5 and a half percent for an A-rated utility.

22 MR. FULTON: Q: And for a Triple-E?

23 MS. McSHANE: A: And then you would add anywhere from  
24 -- I mean it depends. Depends on what the perception  
25 of the bond investor is with regard to the downgrade.  
26 It could have a more, a greater impact than typical

1 simply because investors are concerned about the  
2 implications from a regulatory support perspective.  
3 But let's assume that it's just a typical Triple-B  
4 spread versus A-rated utility. So we would add  
5 perhaps another 50 basis points to the 550. So we're  
6 at 6 percent for a Triple-B at a Long Canada 4  
7 percent, 590, 6 percent. So now the difference in the  
8 next three years we're talking about, or five years,  
9 is the difference between 6 percent and the embedded  
10 cost of 6.78 percent. So that's 78 basis points at  
11 that specific point in time, and long-term Canada Bond  
12 yields over that period are still relatively low.

13 So as we move out to the point where FEI's  
14 long-term debt starts to become ready to be  
15 refinanced, we're back at long-term bond yields that  
16 are fairly similar to the embedded rate.

17 MR. FULTON: Q: You would agree with me, though, that  
18 the result of that is that the embedded costs of debt  
19 is less than the 6.78 percent. The new marginal costs  
20 on the embedded debt -- the new marginal costs on debt  
21 are going to be less than the 6.78 percent that's  
22 referred to at page 5, footnote 6.

23 MS. McSHANE: A: At a Triple-B?

24 MR. FULTON: Q: Yes.

25 MS. McSHANE: A: For the long term? Or just in the  
26 next couple of years?

1 MR. FULTON: Q: In the near term, in the next couple of  
2 years.

3 MS. McSHANE: A: In the next couple of years because  
4 we're at abnormally low interest rates, that's true.  
5 Over the long term, no. And I don't think you should  
6 be looking at what small benefit you might be able to  
7 achieve in the next couple of years at the cost of  
8 long-term increased costs to customers.

9 **Proceeding Time 3:00 p.m. T57**

10 MR. FULTON: Q: And what it really depends on is on  
11 your forecasts of long-term bond yields.

12 MS. McSHANE: A: Well, not just my forecasts. It  
13 depends on where long-term bond yields end up. And it  
14 depends on, you know, what the state of the markets  
15 turns out to be, how receptive the markets are in the  
16 future to A-rated companies versus lower-rated  
17 companies. So it depends on a lot of things.

18 MR. FULTON: Q: I'd like to talk about comparable  
19 earnings next. In Schedule 25 of your evidence, you  
20 use a Canadian sample of unregulated industrial  
21 companies to estimate comparable earnings. Correct?

22 MS. McSHANE: A: Yes.

23 MR. FULTON: Q: And the achieved ROEs presented in  
24 Schedule 5 range from negative 43.7 percent in the  
25 case of Canadian National Railway in 1995 to a  
26 positive 38.8 percent for Ritchie Bros. in 1998.

1       Agreed?

2 MS. McSHANE:    A:    I haven't looked at the highs and  
3       lows, but I'll take that, subject to check.

4 MR. FULTON:     Q:     And would you also agree subject to  
5       check that there are many other companies with large  
6       swings in ROE or have recorded negative ROEs in that  
7       schedule?

8 MS. McSHANE:    A:     There are some that have negative, and  
9       there are swings, yes.

10 MR. FULTON:     Q:     And would you agree with me that that  
11       schedule appears to show that there is a much higher  
12       level of business volatility with those unrelated  
13       companies than there are with regulated utilities?

14 MS. McSHANE:    A:     There is higher volatility in  
15       earnings, yes.

16 MR. FULTON:     Q:     And the majority of those unregulated  
17       industrial companies are rated Triple-B?

18 MS. McSHANE:    A:     The ones that are rated, they're rated  
19       Triple-B.

20 MR. FULTON:     Q:     Yes.

21 MS. McSHANE:    A:     There are a lot that aren't rated, as  
22       I said yesterday, I guess it was. That there are a  
23       lot that don't -- a fair number that don't have much  
24       debt, and therefore they really don't need a debt  
25       rating.

26 MR. FULTON:     Q:     Would you agree with me that the --

1           that higher business risks such as economic downturns  
2           or competition are a large reason for the ROE  
3           variability in those companies?

4 MS. McSHANE:    A:    Yes.

5 MR. FULTON:     Q:     The risk adjustment that you have made,  
6           or estimated, is approximately 125 to 150 basis points  
7           to compensate investors for additional business risk?

8 MS. McSHANE:    A:     To reflect the differences in total  
9           risk as between the unregulated companies and  
10          utilities.

11 MR. FULTON:     Q:     And -- all right, I think I'll leave  
12          that one there.

13                   I'm moving to another topic, Mr. Chairman.  
14           I see the time.  So --

15 THE CHAIRPERSON:  We'll break for 15 minutes.  Back at  
16           3:15.

17           **(PROCEEDINGS ADJOURNED AT 3:04 P.M.)**

18           **(PROCEEDINGS RESUMED AT 3:22 P.M.)**                   **T/5859**

19 THE CHAIRPERSON:  Please be seated.

20 MR. FULTON:     Q:     Ms. McShane, I'd like to move to the  
21           subject of A ratings, and your rebuttal evidence page  
22           28, so Exhibit B1-32, page 28.  Now, at page 28 in the  
23           answer that appears at lines 763 to 770, you state  
24           that the average S&P rating for Canadian utilities is  
25           A Minus, which is only one notch higher than Triple-B  
26           Plus, and you go on to say that the one notch

1 difference in debt rating between the two universes of  
2 utilities does not support the conclusion that the  
3 utility sectors in the two countries are viewed by S&P  
4 as a materially different total risk.

5 Are you implying that a one notch  
6 difference moving from A Minus to Triple-B Plus does  
7 not represent materially different total risk from  
8 S&P's perspective? Is that what I'm to take from your  
9 statement?

10 MS. McSHANE: A: No, I think what you're to take from  
11 my statement is that from an equity holder's  
12 perspective, Triple-B Plus versus -- a universe of  
13 Triple-B Plus versus a universe of A Minus is not so  
14 materially different that you can't select sample  
15 companies of comparable risk from a universe of  
16 Triple-B Plus companies.

17 MR. FULTON: Q: If you turn back to page 6 of the  
18 rebuttal evidence, you state that a downgrade of the  
19 Moody's rating from A-3 to the B Double-A category  
20 could significantly raise FEI's costs of new long-term  
21 debt, and in weak debt market conditions negatively  
22 impact its access to capital. I'm trying to reconcile  
23 what appears to me to be an inconsistency, but you may  
24 say it's not and tell me why it's not. But it seems  
25 on the one hand that you're saying that the difference  
26 between the two S&P ratings where Triple-B Plus and A

1 -- the difference between Triple-B Plus and A Minus is  
2 not material, yet a move of Moody's ratings for FEI  
3 could significantly impact its cost or access to  
4 capital. Can you help me reconcile what seems to be,  
5 to me at least, to be an inconsistent position?

6 MS. McSHANE: A: So what I was trying to convey was  
7 that if you have a universe of companies that is  
8 within one notch of another universe of companies, I  
9 didn't think that that difference was material enough  
10 to conclude that the universe that was rated Triple-B  
11 on average was so much more risky that you could not  
12 select from that universe companies of comparable risk  
13 to Canadian utilities. That was really the thrust of  
14 what I was trying to say on page 28.

15 **Proceeding Time 3:27 p.m. T60**

16 MR. FULTON: Q: And then the statement on page 6 is  
17 then specifically intended for the FEI situation.

18 MS. McSHANE: A: Yes. If FEI was to be downgraded,  
19 that there could be a significant increase in its cost  
20 of debt, due to that downgrade from A-3 to Triple-B.  
21 In a market particularly -- which is particularly  
22 small, still, in terms of Triple-B issues, at the  
23 long-term end.

24 MR. FULTON: Q: Okay. I'd next like to turn to the  
25 issue of regulatory lag. And use the Puget Sound  
26 Energy as an example of that.

1                   In IR No. 1, beginning at page 78, there  
2                   was a discussion about Puget Energy's achieved ROE and  
3                   allowed ROE over the period 2002 to 2011. And so page  
4                   78 -- and in 2010 and 2011, we can agree that the ROEs  
5                   that were achieved by Puget Sound Energy were less  
6                   than the allowed ROEs for those years. Correct?  
7 MS. McSHANE:    A:    I didn't prepare this response, but I  
8                   assume that those are accurate.  
9 MR. FULTON:     Q:     Okay. Well, this may be something that  
10                  I need to ask Mr. Engen, then. Do you know whether  
11                  that gap was caused by regulatory lag?  
12 MS. McSHANE:    A:     No, I don't, specifically.  
13 MR. FULTON:     Q:     Okay. The score for Puget Sound Energy  
14                  is B Double-A?  
15 MS. McSHANE:    A:     Yes.  
16 MR. FULTON:     Q:     And the Moody's score?  
17 MS. McSHANE:    A:     Score for?  
18 MR. FULTON:     Q:     Its rating?  
19 MS. McSHANE:    A:     Are you talking about the Moody's  
20                  rating?  
21 MR. FULTON:     Q:     Yes.  
22 MS. McSHANE:    A:     Based on the piece of paper that I was  
23                  provided, which I -- no, sorry, this is --  
24 MR. FULTON:     Q:     Let me take you to page 28 of the IR,  
25                  and that may help you in terms --  
26 MS. McSHANE:    A:     Okay.

1 MR. FULTON: Q: Because you were asked a question at  
2 161.1. And you were unable to speak -- it was noted  
3 you were unable to speak for Moody's as you did not  
4 know what consideration led to its assignment of the  
5 BWA rating.

6 So maybe I should try this more generally.  
7 Is it your opinion that the existence of a regulatory  
8 lag is a significant reason for a lower regulatory  
9 framework rating?

10 MS. McSHANE: A: I think it could be one reason that  
11 Moody's would assign a lower rating on regulatory  
12 framework.

13 MR. FULTON: Q: Okay. But I take it from that you  
14 can't put any weight on how significant that reason  
15 might be.

16 MS. McSHANE: A: No. I can't.

17 **Proceeding Time 3:32 p.m. T61**

18 MR. FULTON: Q: Okay. I next have some questions  
19 related to risk adjustments to holding companies. And  
20 I'd like to ask you about the risk adjustment that  
21 should be made when we look at a holding company  
22 versus an operating company. You'll agree that the  
23 objective of this proceeding is to find an ROE, a  
24 benchmark ROE for an operating company, the operating  
25 company FEI and not the holding company.

26 MS. McSHANE: A: That's correct.

1 MR. FULTON: Q: And the majority of the public traded  
2 equity represents holding company equity for utilities  
3 from the evidence that you've provided, correct?

4 MS. McSHANE: A: Most of the publicly traded companies  
5 are holding companies that have one or more utilities  
6 as subsidiaries.

7 MR. FULTON: Q: And back to Schedule 22, would you  
8 agree with me that these publicly traded companies are  
9 likely to be holding companies? We know --

10 MS. McSHANE: A: They were all holding companies.

11 MR. FULTON: Q: Yes, thank you. And in terms of the  
12 U.S. sample that you provided, are they also mostly  
13 holding companies?

14 MS. McSHANE: A: They're mostly holding companies.

15 MR. FULTON: Q: Would you agree with me generally that  
16 your market-based test such as the CAPM, beta,  
17 historic utility equity risk premium and DCF inform of  
18 the costs of equity for publicly trading holding  
19 companies and not specifically for operating  
20 companies?

21 MS. McSHANE: A: Yes, the publicly traded and these are  
22 holding companies.

23 MR. FULTON: Q: Yes.

24 MS. McSHANE: A: For the most part, except for I think  
25 Piedmont Natural Gas and Northwest Natural Gas are  
26 really not holding companies *per se* in that their

1 operating company sits at the parent company level. I  
2 mean they may have some small subsidiaries themselves,  
3 but Piedmont and Northwest are not really holding  
4 companies.

5 MR. FULTON: Q: So in terms of the universe of  
6 companies that you have provided in your samples,  
7 there aren't many examples of publicly trade equity of  
8 the operating companies, of operating companies, are  
9 there?

10 MS. McSHANE: A: No, they're mostly holding companies  
11 whose subsidiaries are operating utilities.

12 MR. FULTON: Q: Conversely, there is more information  
13 in the bond market because both operating companies  
14 and holding companies typically issue bonds. Would  
15 you agree with that?

16 MS. McSHANE: A: Sorry, there's more information on --

17 MR. FULTON: Q: On the bond market in which the holding  
18 companies and the operating companies are involved  
19 because both holding companies and operating companies  
20 typically issue bonds.

21 MS. McSHANE: A: Just so I'm clear what you're asking,  
22 I can observe what the ratings are for the holding  
23 companies and what the ratings are for the operating  
24 companies in the bond market.

25 MR. FULTON: Q: Yes, but you can't do that in the  
26 equity market.

1 MS. McSHANE: A: That's correct. You are essentially  
2 inferring the cost of equity from information for the  
3 publicly traded entity.

4 MR. FULTON: Q: And the difference in the cost of long-  
5 term debt between the holding companies and the  
6 operating company subsidiaries of Canadian utilities  
7 has been approximately 35 basis points since 2010?

8 MS. McSHANE: A: I think that's about right.

9 MR. FULTON: Q: And Mr. Engen provided a graph of the  
10 spread between Fortis Inc. and related subsidiaries  
11 which showed a similar profile. Do you recall that  
12 evidence?

13 MS. McSHANE: A: Yes.

14 **Proceeding Time 3:37 p.m. T62**

15 MR. FULTON: Q: Can you confirm that you conceptually  
16 use bond spreads as a proxy to calculate a portion of  
17 the risk adjustment in your comparable earnings test?

18 MS. McSHANE: A: I did. And I was asked in an  
19 Information Request about that. And I said that in  
20 that case I did use that difference as well as the  
21 beta, where I was -- where there was, to my mind,  
22 overwhelming evidence that the unregulated companies  
23 were a greater risk than the utilities.

24 MR. FULTON: Q: And IR 176.3, which is in Exhibit B1-24  
25 at page 56 -- so, B1-24, page 56. You were asked  
26 about a hypothetical scenario, and your response was,

1 all other things equal, that is, a single investment  
2 by the holding company, and no liquidity premium  
3 attached to the 50 percent of the equity owned by the  
4 private investor, the equity of the holding company  
5 would be riskier due to the higher leverage. Correct?

6 MS. McSHANE: A: In the example that you gave, yes.

7 MR. FULTON: Q: Okay. If equity investors are exposed  
8 to more risk than bond investors, and bond investors  
9 demand a 35 to 40 basis point risk premium to invest  
10 in the holding company bonds, wouldn't it be  
11 reasonable to assume that an equity investor in a  
12 holding company would also demand at least 40 basis  
13 points more than the hypothetical equity investor in  
14 the operating company on a standalone basis, all else  
15 being equal?

16 MS. McSHANE: A: No. I believe that if you look at the  
17 response to BCUC IR No. 1, I think it's question 73.5,  
18 which is Exhibit B1-20, and it's page 162, there is a  
19 full discussion of this issue and the fact that the  
20 reason that there is a premium on the debt of the  
21 holding company is because of the subordination of the  
22 debt at the holding company level to the debt of the  
23 operating company level. Which is a factor that is  
24 not the same at the equity level.

25 At the equity level, we should be looking  
26 at the -- you know, what the business risks are of the

1 equity of the holding company. What businesses are  
2 there, how much diversification is there. That kind  
3 of thing. So, the debt really has to do with the  
4 subordination of the parent company debt to the  
5 operating company debt.

6 MR. FULTON: Q: And you're speaking of on a standalone  
7 basis.

8 MS. McSHANE: A: The equity?

9 MR. FULTON: Q: Yes.

10 MS. McSHANE: A: Yes.

11 MR. FULTON: Q: Now, in terms of the U.S. sample of  
12 low-risk U.S. utilities that you used to perform the  
13 discounted cash flow estimates, can you confirm that 7  
14 of those 12 companies in the sample have Moody's  
15 ratings of D Double-A1?

16 **Proceeding Time 3:42 p.m. T63**

17 MS. McSHANE: A: Yes. Which, by the way, is the same  
18 rating that Fortis Alberta has, that Newfoundland  
19 Power has, that Hydro One has on a standalone basis.  
20 So, very similar to the typical rating of a Canadian  
21 utility that Moody's rates. So --

22 MR. FULTON: Q: I provided your counsel yesterday with  
23 copies of extracts from the electronic attachments,  
24 attachments 47.5b and 47.5c. Have you had an  
25 opportunity to review those attachments?

26 MS. McSHANE: A: Yes.

1 MR. FULTON: Q: And would you agree, from your review  
2 of attachments 47.5b and 47.5c, that they display a  
3 history of achieved ROEs and allowed ROEs for the  
4 companies that are listed in those attachments?

5 MS. McSHANE: A: So, the first page of the attachment  
6 that you gave me, these are the returns for the parent  
7 companies, the holding companies.

8 MR. FULTON: Q: Yes.

9 MS. McSHANE: A: And then the allowed returns in the  
10 years they were granted for whatever subsidiary they  
11 were granted for is on the next four pages.

12 MR. FULTON: Q: Okay. Now, on 47.5b, would you agree  
13 that the highlighting shows where large declines in  
14 ROE -- where there are large declines in ROE or the  
15 ROE has fallen short of the allowed ROE?

16 MS. McSHANE: A: The highlighted numbers are -- well,  
17 they're all actual ROEs of the parent company. So they  
18 don't necessarily show where, for the operating  
19 subsidiary, the achieved ROE has fallen short of the  
20 allowed ROE. I'm sure that what you've done, for  
21 example, for Xcel Energy is to look at the most recent  
22 allowed ROEs that are on like page 4 of Attachment  
23 47.5c. The number for 2011 for Xcel Energy on 47.50b  
24 doesn't necessarily tell you Northern States Power of  
25 Minnesota earned its allowed ROE. It just shows that  
26 overall the holding company earned 10.1 percent in



1 MR. FULTON: Q: And we can just pick AGL for an  
2 example, in which its achieved ROE declined from 13  
3 point -- 13 percent to 6.7 percent during 2010-2011.

4 MS. McSHANE: A: Yes because they acquired NYCOR and  
5 incurred significant merger and acquisition costs.

6 MR. FULTON: Q: Okay, and Alliant Energy Corp achieved  
7 an ROE, or its achieved ROE went down from 9 percent  
8 to negative .3 percent during 2003-2005, and then more  
9 recently moved from 10.5 percent down to 4 percent  
10 during 2008-2009.

11 MS. McSHANE: A: Yes, and again all of those situations  
12 were described in response to 162.3.

13 MR. FULTON: Q: Okay. Can I infer that it was  
14 unregulated business activity that caused a fall in  
15 the ROE?

16 MS. McSHANE: A: In which case?

17 MR. FULTON: Q: For some of the companies?

18 MS. McSHANE: A: For some of the companies, yes.

19 **Proceeding Time 3:52 p.m. T65**

20 MR. FULTON: Q: Okay. Did you select most of the  
21 companies due to their proportionately large holdings  
22 of regulated assets?

23 MS. McSHANE: A: Yes. That was one of the criteria.

24 MR. FULTON: Q: Okay. There are also a number of  
25 instances on -- in the attachments where the achieved  
26 ROEs were somewhat below the allowed ROE, and those

1           would include Atmos, Integrys Energy, Vectren, and  
2           Xcel over the last two to three years?

3 MS. McSHANE:    A:    I think that's fair to say, that in  
4           those examples you've given me that in the last couple  
5           of years the achieved ROEs have been lower than the  
6           allowed -- allowed returns that have been allowed in  
7           recent years.

8 MR. FULTON:     Q:     And would you also agree with me that  
9           attachment 47.5c generally shows that the allowed ROEs  
10          and allowed common equity ratios of the U.S. sample  
11          companies are generally higher than the allowed ROEs  
12          and allowed common equity ratios in Canada?

13 MS. McSHANE:    A:     That's true.  Yes.

14 MR. FULTON:     Q:     And can you also agree with me that  
15          U.S. utility companies, at least those that appear in  
16          your sample, often achieve lower returns on equity  
17          than allowed while in Canada utility companies usually  
18          receive ROEs at the same or higher levels than those  
19          allowed.

20 MS. McSHANE:    A:     Well, two things.  One, these returns  
21          are for the parent companies, not for the utilities.  
22          And also there are situations where they earn below,  
23          but there are also situations where they earn above,  
24          so that on average the utilities tend to earn their  
25          allowed return.  I think I can --

26 MR. FULTON:     Q:     In Canada.

1 MS. McSHANE: A: -- I have discussed, in that there is  
2 more of a tendency to earn more and then less than to  
3 earn on average a return equal to the allowed -- there  
4 is a bit more volatility in the U.S. achieved returns  
5 of utilities than in Canada.

6 MR. FULTON: Q: But in spite of the higher common  
7 equity rates, the U.S. sample still has higher  
8 earnings volatility.

9 MS. McSHANE: A: They do have higher earnings  
10 volatility, yes. Now, at the parent company level.  
11 Which is the trade --

12 **Proceeding Time 12:14 p.m. T66**

13 MR. FULTON: Mr. Chairman, if we could mark those  
14 attachments the next exhibit in the A2 series, I  
15 believe that's A2-42.

16 THE HEARING OFFICER: A2-42.

17 **(FIVE-PAGE DOCUMENT, FIRST PAGE HEADED "RETURNS ON**  
18 **AVERAGE COMMON STOCK EQUITY FOR SAMPLE OF U.S.**  
19 **UTILITIES", MARKED EXHIBIT A2-42)**

20 MR. FULTON: Q: Now, in summary, would you agree that  
21 much of your current U.S. sample is rated lower and  
22 has much higher profit risk for the various reasons  
23 that you have described?

24 MS. McSHANE: A: They have more variability. I  
25 wouldn't say they have higher profit risk in the sense  
26 that the expectation that on average the utilities

1 will earn a fair return is similar in the U.S. as in  
2 Canada. They may do it with more variability around  
3 the average in the U.S., but I don't think that  
4 there's a view that there's greater risk that they  
5 won't on average earn a compensatory return.

6 MR. FULTON: Q: In terms of looking at the change in  
7 risk, would you agree with me that there has been a  
8 change in the companies in the sample since 2009 and  
9 that since then six companies have been removed and  
10 five companies added to the current sample of 12  
11 companies?

12 MS. McSHANE: A: I know you're referring to an  
13 information request response.

14 MR. FULTON: Q: Yes.

15 MS. McSHANE: A: Could you give me the reference to  
16 that?

17 MR. FULTON: Q: Yes, I will.

18 MS. McSHANE: A: Thank you.

19 MR. FULTON: Q: BCUC 47.4, pages 109 and 110 and I'm  
20 specifically referring to page 110.

21 MS. McSHANE: A: Sorry, so could you ask your question  
22 again now that I have the IR in front of me here?

23 MR. FULTON: Q: Some of the companies that were in your  
24 2009 sample are no longer in the 2012 sample, correct?

25 MS. McSHANE: A: Yes.

26 MR. FULTON: Q: And in fact there have been six

1 companies removed and five companies added between the  
2 sample dates.

3 MS. McSHANE: A: Yes. Part of that is because the  
4 criteria for inclusion were changed. So if we look at  
5 the companies that are in the 2012 sample that were  
6 not in the 2009 sample, those are all improved in  
7 terms of risk. The ones that were in the 2000 sample  
8 that aren't in the 2012 sample, like the first two  
9 that were in the 2009 sample, I didn't have a -- I did  
10 not have a criterion on the Moody's rating. So the  
11 reason that Dominion and Duke were in the sample but  
12 not now is because I actually included -- well, I  
13 insisted that the utilities had to be -- at least be  
14 Double-A-1 or Triple-B Plus on both credit ratings.  
15 So as a result, these two companies weren't in the  
16 sample in 2012. Had the criteria been the same, had I  
17 not strengthened the criteria, they would have still  
18 been in the sample.

19 **Proceeding Time 4:03 p.m. T67**

20 And similarly, on the New Jersey resources,  
21 in the bottom half of the table, it was because the  
22 criteria were strengthened, not because of any change  
23 in the riskiness of the company. It was because I had  
24 determined that if, you know, there was a concern  
25 about the relative risk of the sample, let's make the  
26 criteria a little bit more strict and so I added this

1 criterion that you had to have a certain percentage of  
2 assets that was regulated, so that that knocked out  
3 New Jersey Resources. It wasn't a change in the  
4 riskiness of the company. It was just that it didn't  
5 meet the criteria.

6 MR. FULTON: Q: So can I take it from that answer that  
7 previously some of the companies were higher-risk and  
8 they only recently began to display lower risk, so  
9 they don't have a long track record of being low-risk.

10 MS. McSHANE: A: Well, they would have been maybe one  
11 notch lower before. I mean, it's not like somebody  
12 changes their risk overnight. It's sort of a  
13 continuum. At some point, S&P decided that they  
14 should be rated A-minus. So it would have been, I  
15 guess, what you might call an evolution.

16 MR. FULTON: Q: Well, if we return to the earnings --  
17 the issue of earnings variability conceptually, would  
18 you agree with me with something with high variability  
19 requires higher arithmetic returns to compensate for  
20 the volatility?

21 MS. McSHANE: A: I'm not sure I exactly understand what  
22 you're asking. Are you talking about, like, a  
23 risk/reward trade-off?

24 MR. FULTON: Q: Yes.

25 MS. McSHANE: A: So --

26 MR. FULTON: Q: And I'm talking conceptually here.

1 MS. McSHANE: A: Conceptually, you would expect or hope  
2 that if a company had higher variability of returns,  
3 it would have a higher return. To compensate for the  
4 higher variability. And that's conceptually what  
5 you'd expect.

6 MR. FULTON: Q: I'd next like to turn to a discussion  
7 of equity risk premium methods. And the *ex ante* and  
8 the *ex post* methods. And am I correct in my  
9 understanding that the *ex ante* method starts off with  
10 the premise of the expectation of future equity  
11 returns as measured by your DCF implied cost of equity  
12 in each calendar year from 1998 to 2012, as opposed to  
13 the expectations of bond returns as indicated by the  
14 bond yields in the calendar year, or income returns?

15 MS. McSHANE: A: So the DCF measures are the dividend  
16 yield for their monthly estimates. So you've got the  
17 dividend yield plus the growth rate that's published  
18 as the expected growth rate during that same month.  
19 Essentially the sum of those two numbers gives you the  
20 DCF cost. And those DCF numbers are then compared  
21 with the coincident month's yield on Government bonds.

22 **Proceeding Time 4:08 p.m. T68**

23 MR. FULTON: Q: All right, so that's the *ex ante*  
24 method.

25 MS. McSHANE: A: Yes. So there is a determination then  
26 in each month of what the premium was and then there

1 was an analysis of what the relationship over that  
2 period was between equity risk premiums, the level of  
3 government bond yields, and also the spread between A-  
4 rated utility bonds and government bonds. So then we  
5 can estimate based on where we think interest rates  
6 are going to be, where I forecast long-term government  
7 bond yields and spreads are going to be, what the cost  
8 of equity is at that level of long Canada bond yields  
9 and A-rated utility spreads.

10 MR. FULTON: Q: Now, if we turn next to the ex-post  
11 method. As I understand it, the *ex post* method is  
12 based on the premise of actual returns, and you  
13 described this method as the historic utility equity  
14 risk premium test?

15 MS. McSHANE: A: Yes.

16 MR. FULTON: Q: And for equity returns, this consists  
17 of income returns and actual capital gains or losses  
18 which combined equal the total return?

19 MS. McSHANE: A: So there is a total return on the  
20 equities and a bond income -- in comparison to bond  
21 income returns historically.

22 MR. FULTON: Q: And the total return includes both  
23 anticipated and unanticipated price movements?

24 MS. McSHANE: A: On the equity return?

25 MR. FULTON: Q: Yes.

26 MS. McSHANE: A: It would, yes. Conceptionally.

1 MR. FULTON: Q: Now, when we experienced market forces  
2 that cause simultaneous price moves to both equities  
3 and bonds, shouldn't we compare them on a total return  
4 basis?

5 MS. McSHANE: A: Depends what you are trying to do. If  
6 you are trying to estimate it in relation to the risk-  
7 free rate, then no. This is what I was trying to do  
8 here, similar to what I was doing with the capital  
9 asset pricing model.

10 MR. FULTON: Q: Page 107 of your evidence, table 27.

11 MS. McSHANE: A: I have that.

12 MR. FULTON: Q: And Mr. Wallace, yesterday afternoon  
13 touched on this table with you. That table shows the  
14 historic risk premium relative to bond total returns  
15 and relative to bond income returns.

16 MS. McSHANE: A: This is Table 27?

17 MR. FULTON: Q: Yes.

18 MS. McSHANE: A: Yes, it does.

19 MR. FULTON: Q: And the income based bond returns shows  
20 the utility risk premium of approximately 60 to 70  
21 basis points higher than the bond total return?

22 MS. McSHANE: A: Yes, it does.

23 MR. FULTON: Q: So 60 points for Canadian utilities and  
24 70 basis points for the U.S. gas utilities and U.S.  
25 electric utilities.

26 MS. McSHANE: A: Right, that's how much higher the bond

1 total returns were than the bond incomes returns over  
2 the historical period.

3 MR. FULTON: Q: And are you able -- is Table 27 telling  
4 us that Canadian investors have earned a total return  
5 premium of 4.2 percent by investing in utilities  
6 versus bonds?

7 MS. McSHANE: A: If they -- if they had bought and sold  
8 bonds each and every year, that's what that 4.2 is  
9 telling you.

10 **Proceeding Time 4:13 p.m. T69**

11 MR. FULTON: Q: Okay. Now, we may not have agreed with  
12 this completely, but we did have a discussion earlier  
13 about investors looking to past experience as a guide  
14 to the future. Do you recall that discussion?

15 MS. McSHANE: A: I do.

16 MR. FULTON: Q: Okay. And some investors do look to  
17 past experience as a guide to the future, correct?

18 MS. McSHANE: A: They would do.

19 MR. FULTON: Q: Yes. And those investors might expect  
20 a similar 4.2 percent risk premium over bonds going  
21 forward rather than your regression model at 6.4  
22 percent?

23 MS. McSHANE: A: Are you talking about the number  
24 that's on page 108?

25 MR. FULTON: Q: The one on page 28, which I think this  
26 is -- it's in Table 28 on 108, yes.

1 MS. McSHANE: A: I suppose that you could argue that  
2 there might be investors that would look at it that  
3 way. I have a discussion underneath Table 27 which  
4 shows that there really hasn't been any trend in the  
5 equity returns of utilities over time. So I would  
6 think that investors would look to what they've  
7 actually earned as far as returns on the utilities, as  
8 well as recognize that these total bond returns are  
9 from a period on average that gave rise to a much  
10 higher return than they could expect, given where  
11 interest rates are today.

12 MR. FULTON: Q: Now, in terms of how you calculated  
13 your DCF costs of equity estimate, there are different  
14 variations of using DCFs and a common distinction  
15 could be described as using a single-stage or multi-  
16 stage model?

17 MS. McSHANE: A: That's one difference in the way  
18 analysts implement the DCF model or models.

19 MR. FULTON: Q: Yes, and you've read the Brattle  
20 report?

21 MS. McSHANE: A: I did read the Brattle report.

22 MR. FULTON: Q: Do you have it close by?

23 MS. McSHANE: A: I don't.

24 **Proceeding Time 4:16 p.m. T70**

25 MR. FULTON: Q: Ah. I'm wondering if Mr. Ghikas could  
26 provide you with that report and just take it to page

1 26.

2 MS. McSHANE: A: Sorry, Mr. Fulton, what was the  
3 exhibit number?

4 MR. FULTON: Q: Of the Brattle report?

5 MS. McSHANE: A: Yes.

6 MR. FULTON: Q: A2-3. And page 26. And if you turn  
7 forward to page 30, the top paragraph, the comment  
8 appears:

9 "The major source of debate for the DCF  
10 model is determining the dividend growth  
11 rate, particularly for the long term.  
12 Unfortunately the forecast growth rate has a  
13 major effect on the costs of equity  
14 estimated by the DCF method."

15 Do you agree with that statement?

16 MS. McSHANE: A: That the forecast growth rate has a  
17 major effect on the cost of equity?

18 MR. FULTON: Q: Yes.

19 MS. McSHANE: A: Yes, it does. If you're talking about  
20 a utility, it could be half of the cost estimate.

21 MR. FULTON: Q: And you've expressed the view that many  
22 investors feel that the long-term growth rate for the  
23 utility industry should be similar to the GDP if not  
24 lower.

25 MS. McSHANE: A: I don't think I said anything about if  
26 not lower.

1 MR. FULTON: Q: Okay.

2 MS. McSHANE: A: But I mean, I think that's a  
3 reasonable assumption for what the terminal growth  
4 rate should be in a multi-stage model, for a utility.

5 **Proceeding Time 4:19 p.m. T71**

6 MR. FULTON: Q: Okay. And I apologize, Ms. McShane, I  
7 said that you said, "If not lower", and I understand  
8 that you didn't say that. So thank you.

9 Now, you have incorporated very high long-  
10 term growth estimates in one of your variants of the  
11 DCF estimate on schedule 22, correct?

12 MS. McSHANE: A: I am assuming that schedule 22 is the  
13 Canadian utility group?

14 MR. FULTON: Q: Yes.

15 MS. McSHANE: A: So this is the group that has very  
16 strong forecast earnings growth and that is reflected  
17 in the relatively lower dividend yields than compared  
18 to the U.S. sample, which has lower expected earnings  
19 growth.

20 MR. FULTON: Q: And the single stage constant growth  
21 Canadian-based sample shows a long-term mean growth  
22 rate assumption of 7.5 percent for those companies?

23 MS. McSHANE: A: That's correct.

24 MR. FULTON: Q: And that is substantially higher than  
25 the 4.3 percent GDP used on your Canadian multi-stage  
26 variant?

1 MS. McSHANE: A: Yes, it is.

2 MR. FULTON: Q: And that fact results in a much higher  
3 corresponding DCF cost of equity estimate?

4 MS. McSHANE: A: The constant growth is higher than the  
5 multi-stage growth?

6 MR. FULTON: Q: Yes.

7 MS. McSHANE: A: Yes.

8 MR. FULTON: Q: Now, I think at some point this morning  
9 you used the word "infinity", but I can check the  
10 transcript over the weekend.

11 MS. McSHANE: A: "Perpetuity" I think maybe was the  
12 word.

13 MR. FULTON: Q: Perpetuity? Okay.

14 MS. McSHANE: A: But same difference.

15 MR. FULTON: Q: Okay, thank you. So that doesn't a  
16 7.15 percent long-term growth rate into perpetuity for  
17 the utility sector with a 4.3 percent GDP rate for the  
18 whole Canadian economy imply that the utility sector  
19 would become a substantially larger portion of the  
20 Canadian economy?

21 MS. McSHANE: A: In principle, if those were -- growth  
22 rates were achieved into perpetuity, that would be  
23 eventually the logical outcome. And that's why I  
24 don't give 100 percent weight to that constant growth  
25 model, nor do I give a hundred percent weight to the  
26 multi-stage model.

1 MR. FULTON: Q: Because they would result in  
2 unreasonable outcomes.

3 MS. McSHANE: A: Giving a hundred percent weight?  
4 Yeah, I think on its own, for this sample of utilities  
5 that the constant growth model overstates the long-  
6 term expected return. On the other hand, I think  
7 doing it -- when you implement a very low growth rate  
8 relatively speaking into the multi-stage model, you  
9 end up understating. So the answer is somewhere in  
10 the middle.

11 **Proceeding Time 4:23 p.m. T72**

12 MR. FULTON: Q: And because the number is unreasonable,  
13 why not just eliminate it?

14 MS. McSHANE: A: Because I think what I was trying to  
15 say is that it's not that you eliminate it. You  
16 recognize that there is a range of these -- of values,  
17 and it falls in the middle. Similarly, I suppose, you  
18 could say, you know, eliminate the three-stage model  
19 because it's unreasonably low. And then you've got  
20 nothing.

21 MR. FULTON: Q: Okay. Of the two mechanism options,  
22 the single-stage and the multi-stage, which one in  
23 your opinion is the more unreasonable?

24 MS. McSHANE: A: I don't think either of them is more  
25 or less unreasonable. I think the answer falls in the  
26 middle.

1 MR. FULTON: Q: Okay.

2 MS. McSHANE: A: I mean, clearly investors are  
3 expecting above-average growth from these companies in  
4 the medium-term, and that's reflected in the prices  
5 and their yields. So, I believe that to accurately  
6 represent expectations that you need to consider the  
7 constant growth model, as well as the multi-stage  
8 model.

9 MR. FULTON: Q: Okay. I'd like to turn briefly to  
10 Enbridge, and I don't have a transcript reference for  
11 this, so it's based on my understanding of your  
12 testimony earlier today, I think. That you mentioned  
13 that Enbridge Inc., as a growth company, would have  
14 lower dividend yield, which offsets the high growth in  
15 estimating the cost of equity. Do you remember saying  
16 something like that?

17 MS. McSHANE: A: That, yeah, that there would tend to  
18 be a lower dividend yield with higher growth. Not  
19 saying that they're going to entirely offset each  
20 other, so that you'd get exactly the same answer for  
21 two companies with, you know, different growth rates  
22 and different dividend yields.

23 **Proceeding Time 4:26 p.m. T73**

24 MR. FULTON: Q: Okay. Well, if we return to Schedule  
25 22 again, it shows that Enbridge Inc.'s dividend yield  
26 is 3.2 percent, which is 70 basis points lower than

1 Fortis Inc.'s 3.9 percent.

2 MS. McSHANE: A: Correct.

3 MR. FULTON: Q: And the growth rate of Enbridge is 10.4  
4 percent, or 350 basis points higher than that of  
5 Fortis Inc.

6 MS. McSHANE: A: Correct.

7 MR. FULTON: Q: And both of them are holding companies,  
8 as we have agreed.

9 MS. McSHANE: A: Yes.

10 MR. FULTON: Q: Would it be fair to say that the lower  
11 dividend yield of Enbridge is only a partial offset to  
12 high growth, relative to Fortis Inc.?

13 MS. McSHANE: A: That's true. I mean, otherwise they  
14 would be equal, which the DCFs would be equal, which  
15 they're not.

16 MR. FULTON: Q: So perhaps, then, if I could summarize  
17 then some of the differences in risk adjustments that  
18 could be made to some of your market-based models,  
19 including the equity risk premium test and the DCF  
20 test. First, the U.S. utility sector in your sample  
21 has higher business risk, as the fluctuations and the  
22 achieved ROEs show, and the shortfalls from the  
23 allowed ROEs show.

24 Second, that --

25 MS. McSHANE: A: So, higher business risk than an  
26 operating company?

1 MR. FULTON: Q: Yes.

2 MS. McSHANE: A: They do have higher volatility of  
3 achieved returns.

4 MR. FULTON: Q: Yes. And compared to the Canadian  
5 operating company, compared to FEI.

6 MS. McSHANE: A: The volatility of those returns is  
7 higher than FEI's has been.

8 MR. FULTON: Q: Okay. Many of the companies in your  
9 sample are holding companies, which have higher equity  
10 risks than their associated operating companies on a  
11 stand-alone basis.

12 MS. McSHANE: A: I don't know that I would agree with  
13 that, since a lot of the companies have multiple  
14 operating companies, and so you get the  
15 diversification effect across multiple geographic  
16 locations, multiple regulatory jurisdictions, and  
17 economic bases.

18 MR. FULTON: Q: Okay. One of the Canadian DCF  
19 estimates includes a utility sector long-term growth  
20 assumption that is much higher than GDP growth?

21 MS. McSHANE: A: Are you talking about the Canadian  
22 Utilities?

23 MR. FULTON: Q: Yes.

24 MS. McSHANE: A: The constant growth? The DCF  
25 estimates based on constant growth for the Canadian  
26 Utilities is, yes, it's higher than GDP growth,

1 reflecting the fact that these companies have  
2 relatively high growth prospects in the medium term.

3 **Proceeding Time 4:30 p.m. T74**

4 MR. FULTON: Q: And the Canadian estimates rely  
5 partially on businesses that are very different than  
6 gas distribution, pure play gas distribution, and I'm  
7 including in those different businesses, Enbridge Inc.  
8 and TransCanada.

9 MS. McSHANE: A: So Enbridge Inc. is made up of gas  
10 distribution and pipelines for the most part, so they  
11 would be similar infrastructure type businesses.

12 MR. FULTON: Q: TransCanada?

13 MS. McSHANE: A: TransCanada is pipelines and power, I  
14 guess.

15 MR. FULTON: Q: Now, one last question in this area and  
16 that is that on pages 20 to 32 of your evidence, there  
17 are charts numbered 1 to 4 and tables numbered 2 to 3.  
18 And as an undertaking could I ask you to update those  
19 charts and tables to the end of November of 2012?

20 MS. McSHANE: A: Sorry, what pages are these on?

21 MR. FULTON: Q: They're on pages 20 to 32 of your  
22 evidence.

23 MS. McSHANE: A: So Charts 1 --

24 MR. FULTON: Q: 1 to 4.

25 MS. McSHANE: A: -- to 4.

26 MR. FULTON: Q: And Tables 2 and 3.

1 MS. McSHANE: A: Yes, I can do that.

2 **Information Request**

3 MR. FULTON: Thank you, Mr. Chairman. I'm moving into a  
4 different area now, so this would be a good time to  
5 break. I know you're looking like "How much longer  
6 are you going to be, Mr. Fulton?"

7 THE CHAIRPERSON: What a sense of --

8 MR. FULTON: I've anticipated that question and I'll  
9 probably be till the morning break tomorrow. On  
10 Monday I should say.

11 THE CHAIRPERSON: On Monday, okay. I think probably that  
12 it's appropriate that we'll break now. And then we  
13 have Mr. Wallace following you on Monday, is that  
14 right?

15 MR. FULTON: What will happen on Monday is I will finish.

16 THE CHAIRPERSON: Yes.

17 MR. FULTON: The Commission Panel will then ask its  
18 questions. Mr. Ghikas will conduct his re-examination  
19 to the extent that he has any. Then we will then  
20 close the public session of Ms. McShane's evidence and  
21 take hopefully just a five-minute break or however  
22 long it will take the Hearing Officer to set us up to  
23 do an *in camera* session, and Mr. Wallace and anyone  
24 else who has questions in the *in camera* session will  
25 then ask questions of Ms. McShane. Once that's done  
26 we'll close off the *in camera* session. Ms. McShane

1 will be finished in terms of her evidence, and we will  
2 move into the next witness panel, which will be Mr.  
3 Coyne.

4 THE CHAIRPERSON: Mr. Coyne, okay. Well, let's break for  
5 today and for the weekend, and back Monday morning  
6 8:30. I think we should anticipate maybe going a  
7 little later on Monday, perhaps 5:00.

8 MR. FULTON: Yes. I've had some discussions with  
9 counsel, Mr. Chairman, and we're all agreed that we  
10 would like to have a shortened lunch hour. So we can  
11 pick up a half an hour there if we break from 12:00  
12 until 1:00, and then in terms of sitting later next  
13 week we can see how flexible everyone can be.

14 THE CHAIRPERSON: Okay, that's reasonable at this point,  
15 so we'll deal with that on Monday then.

16 MR. FULTON: Thank you.

17 THE CHAIRPERSON: Excellent. Have a good weekend  
18 everybody.

19 **(PROCEEDINGS ADJOURNED AT 4:34 P.M.)**

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