

1 (9:30 a.m.)

2 MR. NOSEWORTHY, CHAIRMAN: Good morning. I trust
3 everybody had a good weekend and I see some familiar
4 faces. Welcome back to the, I guess, as a (inaudible), the
5 cost of capital experts, for lack of a better definition. Before
6 we get started I'll go to counsel and ask if there are any
7 preliminary matters. Mr. Kennedy?

8 MR. KENNEDY: Chair, just that counsel had a meeting on
9 Friday and it's my intention to provide an update on that.
10 I prefer to do it after the lunch break, if that's appropriate,
11 just so I could gather my notes.

12 MR. NOSEWORTHY, CHAIRMAN: Thank you, Mr.
13 Kennedy. If there are no other matters, we'll go directly to
14 the Industrial Customers, and are you in a position, I guess,
15 Mr. Hutchings, is it, to introduce Mr., Dr. Vilbert, please?

16 MR. HUTCHINGS: Yes. Thank you, Mr. Chair. Dr. Vilbert
17 has made it despite the disruptions in the airline service
18 and is prepared to take the stand at this point. Dr. Vilbert,
19 please.

20 MR. NOSEWORTHY, CHAIRMAN: Thank you. Good
21 morning, Dr. Vilbert, and welcome back. I wonder could
22 you take the Bible in your right hand, please? Do you
23 swear on this Bible that the evidence to be given by you
24 shall be the truth, the whole truth and nothing but the
25 truth, so help you God?

26 DR. VILBERT: I do.

27 MR. NOSEWORTHY, CHAIRMAN: Thank you very much.
28 Please be seated. I'll ask Mr. Hutchings to continue and
29 introduce the direct examination, please.

30 MR. HUTCHINGS: Thank you, Mr. Chair. Could you
31 please state for the record your full name and current
32 address?

33 DR. VILBERT: My name is Michael J. Vilbert and I live in
34 Melrose, Massachusetts.

35 MR. HUTCHINGS: Dr. Vilbert, in connection with this
36 hearing you have pre-filed with the Board written evidence
37 dated August of 2001, and supplemental written evidence
38 dated November 2001. Do you adopt both of these pieces
39 of evidence as your testimony for the purpose of this
40 hearing?

41 DR. VILBERT: I do.

42 MR. HUTCHINGS: Thank you. Those are all my
43 questions, Mr. Chair.

44 MR. NOSEWORTHY, CHAIRMAN: Thank you very much,
45 Mr. Hutchings. I'll move now to cross-examination by
46 Hydro. Ms. Greene, please?

47 MS. GREENE, Q.C.: Thank you. Good morning, Dr. Vilbert.

48 DR. VILBERT: Good morning.

49 MS. GREENE, Q.C.: Welcome back.

50 DR. VILBERT: Thank you.

51 MS. GREENE, Q.C.: I understood, Dr. Vilbert, from your
52 evidence that you are not recommending a specific return
53 on equity for Hydro at this time. Is that correct?

54 DR. VILBERT: That's correct.

55 MS. GREENE, Q.C.: But rather recommending an approach
56 which is called the after-tax weighted average cost of
57 capital. Is that correct?

58 DR. VILBERT: Yes, ma'am.

59 MS. GREENE, Q.C.: And you also mention ... I wonder if
60 we could look at your **pre-filed evidence**, please, Mr.
61 O'Rielly, **page two**? On page two, line 17 to 19, I understood
62 from those lines, Dr. Vilbert, that in your view the three
63 percent return on equity that Hydro is requesting in this
64 proceeding is low in relation to returns that would normally
65 be considered in other proceedings, is that correct?

66 DR. VILBERT: Yes.

67 MS. GREENE, Q.C.: I'd like to turn for a few moments to
68 look at the approach that you're recommending. So as I
69 understand it, you're not recommending a specific return on
70 rate base or return on equity, but you are recommending an
71 approach to the Board for the Board to consider in this
72 application, is that correct?

73 DR. VILBERT: That's correct.

74 MS. GREENE, Q.C.: The approach, ATWACC is a new
75 type of approach for regulatory proceedings, is that
76 correct?

77 DR. VILBERT: Yes, although it's inherent in everything
78 that's been done by cost of capital witnesses. It's just that
79 it combines some things in one step.

80 MS. GREENE, Q.C.: And the theory as, or the methodology
81 is relatively new in terms of a regulatory board accepting it.

82 DR. VILBERT: Yes.

83 MS. GREENE, Q.C.: You have reviewed the evidence of
84 Ms. McShane and Dr. Kalymon, have you?

85 DR. VILBERT: Yes.

86 MS. GREENE, Q.C.: Would you describe the approach that
87 Ms. McShane and Dr. Kalymon have put forward as the
88 traditional type of approach that a regulatory board in
89 Canada would use?

90 DR. VILBERT: Yes, although Dr. Kalymon has a deemed
91 capital structure which is a little different and in fact it's in
92 some ways similar to the ATWACC approach.

1 MS. GREENE, Q.C.: But in terms of the tests that we use to
2 determine the appropriate return, that would be
3 characterized as a traditional type of approach, is that
4 correct, risk premium test, a discounted cash flow test,
5 comparable earnings test?

6 DR. VILBERT: Yes. Those are traditional methods of
7 estimating the cost of equity and I would use the same
8 methods to estimate the cost of equity as well.

9 MS. GREENE, Q.C.: With respect to the methodology that
10 you're recommending, the ATWACC approach, has any
11 other regulatory board accepted that particular
12 methodology as the primary tool in dealing with the issues
13 of the return on capital?

14 DR. VILBERT: Not as a primary tool. The Alberta Energy
15 and Utilities Board adopted the ATWACC method in the
16 1998 hearing, although they adopted it with a modification.
17 It was a secondary or ... not the primary method.

18 MS. GREENE, Q.C.: So they still use the traditional method
19 in setting it, is that correct?

20 DR. VILBERT: Yes, and I should note that the ATWACC
21 method and the traditional method are not in any way in
22 conflict. In fact they are very much in accord, and you'll
23 get the exact same answer in terms of the return on equity.
24 The advantage of the ATWACC method is that it ensures
25 a consistency between the return on equity and the capital
26 structure that is adopted.

27 MS. GREENE, Q.C.: And you just mentioned that the
28 Alberta Energies (*sic*) Utility Board is the first regulatory
29 board to have adopted the methodology, is that correct, in
30 Canada and the United States?

31 DR. VILBERT: Yes.

32 MS. GREENE, Q.C.: And in fact that board modified your
33 recommended approach, is that correct?

34 DR. VILBERT: Yes, they modified it.

35 MS. GREENE, Q.C.: And I think you've already indicated
36 that they also used it as a secondary tool, not as a primary
37 tool, is that correct?

38 DR. VILBERT: I'm trying to remember their exact
39 characterization. I believe they tried to say that it was co-
40 equal but it probably is secondary and is still in their mind,
41 because there's some ... any time you adopt a new
42 approach, there's going to be a need to anchor it in terms of
43 the old approach.

44 MS. GREENE, Q.C.: I'd like for us to look at how the
45 Alberta Energy Utilities Board modified your recommended
46 approach, and I think if we could look at your **pre-filed**
47 **evidence first, please, page 36 to 37**, and it begins on the
48 bottom of page 36. And I wonder, Dr. Vilbert, if you could

49 read beginning at line 25 there on the bottom of page 36
50 and going over to page 37, please, your answer to the
51 question, and the answer begins there on line 25?

52 DR. VILBERT: Yes. "The AEUB has taken a significant
53 official step in this direction at least and there are other
54 cases in which the principles are in use in the proceedings
55 but which have not been officially adopted by regulators.
56 In its adoption of the principle of the ATWACC, the AEUB
57 decided to calculate the ATWACC based upon book value
58 instead of market value weights (phonetic). This is
59 economically incorrect. The reason for the AEUB's
60 decision and the explanation of their (inaudible) in its
61 application is discussed more fully in Appendix B, Section
62 4.

63 MS. GREENE, Q.C.: The decision of the Alberta Energy
64 Utilities Board is very lengthy, isn't it?

65 DR. VILBERT: Yes.

66 MS. GREENE, Q.C.: Okay. I think it occupies something
67 like two big volumes.

68 DR. VILBERT: I don't think I read the whole thing. I just
69 read the ones that were applicable to me.

70 MS. GREENE, Q.C.: At this time I have copies of extracts
71 from that decision that I would like to refer to and that I
72 have to circulate at this time. We'll just wait till everybody
73 gets a copy, Dr. Vilbert.

74 MR. KENNEDY: I understand, Counsel, this is an excerpt
75 from a decision?

76 MS. GREENE, Q.C.: Yes, it is. It's an extract, just two
77 pages, from the very lengthy decision of the Alberta
78 Energy Utilities Board in the Trans Alta case that Dr.
79 Vilbert referred to in his pre-filed evidence and as well this
80 morning.

81 MR. KENNEDY: Chair, unless there's an objection of
82 counsel, I'd just list it as a consent document in light of its
83 source, and it'll be Consent No. 10.

84 **EXHIBIT CONSENT NO. 10 ENTERED**

85 MR. NOSEWORTHY, CHAIRMAN: Thank you.

86 MS. GREENE, Q.C.: I'd like first, Dr. Vilbert, to look at the
87 first page in the hand-out which is page 307 of this
88 decision. Do you recognize these pages being from that
89 decision?

90 DR. VILBERT: I do.

91 MS. GREENE, Q.C.: And the date on the bottom of the
92 page is November 25th, 1999, is that correct?

93 DR. VILBERT: Yes.

94 MS. GREENE, Q.C.: Okay. As I said, this is a lengthy

1 decision but I believe if we could look at the last paragraph
2 before the heading that begins with "E," which is
3 conveniently a short summary paragraph, and I wonder if
4 you could read that into the record, please, the paragraph
5 that begins with "In summary."

6 DR. VILBERT: "In summary, for all of the above reasons,
7 the Board finds it necessary to reject Trans Alta's version
8 of the ATWACC model which proposes the use of market
9 capitalization ratios. Accordingly, the Board considers that
10 it should place primary weight on the traditional method in
11 the development of a fair return for these proceedings.
12 Nevertheless, the Board considers that useful insight and
13 assistance can be obtained from the principles of the
14 ATWACC concept that will assist it in determining the fair
15 return for the integrated company as well as by business
16 function."

17 MS. GREENE, Q.C.: So we see from that paragraph that the
18 Board did modify the recommended methodology to use
19 book values rather than market capitalization ratios, is that
20 correct?

21 DR. VILBERT: That's correct.

22 MS. GREENE, Q.C.: And we also see that the Board there
23 agreed to place primary weight on the traditional method as
24 described in the decision, is that correct?

25 DR. VILBERT: Yes. May I explain some things about this
26 decision?

27 MS. GREENE, Q.C.: Perhaps after. As I said, I have some
28 questions to get to and I'm sure if your counsel would like
29 you to explain it, he will ask you those questions. I think
30 you've acknowledged in your evidence, Dr. Vilbert, that
31 Newfoundland Hydro does not pay incomes tax, is that
32 correct?

33 DR. VILBERT: That's correct.

34 MS. GREENE, Q.C.: Turning to the second page of this
35 decision that we've just circulated, page 331, there were
36 entities there that did not pay income tax as well, and the
37 first paragraph on the top of page 331 deals with that issue,
38 and I wonder, Dr. Vilbert, if you could read that first
39 paragraph on the top of page 331 into the record, please?

40 *(9:45 a.m.)*

41 DR. VILBERT: "The Board earlier in this decision set out
42 its approach to the determination of a fair return. The
43 Board noted that it would use both the traditional method
44 and a modified ATWACC as tools to arrive at the fair return
45 for EPGI, EPTI and Trans Alta with primary weight placed
46 upon the traditional method. The Board also noted that
47 since EPGI and EPTI do not pay income tax, the modified
48 ATWACC model collapses to the traditional method used
49 to determine a fair return, or, in other words, the ATWACC

50 return grossed up by dividing one minus the tax rate is
51 mathematically equivalent to the traditional fair return plus
52 income tax payable on the equity portion of the fair return."

53 MS. GREENE, Q.C.: Thank you. I'd like now to look to the
54 **Information Request NLH-18**, and it's page two of five.
55 This table produces the implied return on equity that would
56 have resulted from your recommendations in three different
57 proceedings, is that correct, Dr. Vilbert? Among other
58 things, the last column shows the implied return on equity.

59 DR. VILBERT: Yes.

60 MS. GREENE, Q.C.: Okay. The first column there, could
61 you please explain what proceeding that was? It's again
62 before the Alberta Energy Utilities Board 1998, is that
63 correct?

64 DR. VILBERT: Yes.

65 MS. GREENE, Q.C.: And at that time, shall we take from
66 this table that if your recommended methodology had been
67 adopted, the implied return on equity that would have
68 resulted for Trans Alta at that time was 10.8 percent?

69 DR. VILBERT: Yes, that's correct.

70 MS. GREENE, Q.C.: Similarly with the second column, this
71 is the decision that we just looked at, is it, the second one
72 coming down on the left-hand side, the second, the Alberta
73 Energy Utilities Board in 2000. That's just the decision we
74 read, is that correct?

75 DR. VILBERT: The decision you read was from the 1998
76 proceeding.

77 MS. GREENE, Q.C.: Oh, sorry. In this one, it was for the
78 transmission or (inaudible) part of the unbundled utility, is
79 that correct?

80 DR. VILBERT: Yes, as part of a deregulated industry in
81 Alberta.

82 MS. GREENE, Q.C.: Okay. And the implied return on
83 equity that would have resulted if your methodology had
84 been adopted is 11.08 percent, is that correct?

85 DR. VILBERT: That's correct.

86 MS. GREENE, Q.C.: And the third one shown on the table
87 ...

88 DR. VILBERT: That's National Energy Board, Trans
89 Canada Pipeline, 12.52 percent.

90 MS. GREENE, Q.C.: And that particular proceeding is not
91 concluded yet, is that correct?

92 DR. VILBERT: That's correct.

93 MS. GREENE, Q.C.: Okay. And if that methodology that
94 you're recommending is adopted by the National Energy

- 1 Board, you're saying that the implied return on equity for
2 the pipeline would be 12.52 percent, is that correct?
- 3 DR. VILBERT: That's correct.
- 4 MS. GREENE, Q.C.: Thank you, Dr. Vilbert. That
5 concludes the questions that I have for you.
- 6 MR. NOSEWORTHY, CHAIRMAN: Thank you very much,
7 Ms. Greene. We'll move now to cross-examination by
8 Newfoundland Power. Ms. Butler, please.
- 9 MS. BUTLER, Q.C.: Thank you, Mr. Chairman. Good
10 morning, Dr. Vilbert.
- 11 DR. VILBERT: Good morning.
- 12 MS. BUTLER, Q.C.: I wonder, Mr. O'Rielly, can we see
13 again **NLH-18**? This time page five of five. Thank you.
14 Dr. Vilbert, in relation to the question that was posed there,
15 the response that was given is in three paragraphs. Can
16 you just read the first paragraph, please?
- 17 DR. VILBERT: "Please see Dr. Vilbert's written evidence,
18 page 12, line 12, through page 13, line 4, for Dr. Vilbert's
19 views on the issue of the benchmark samples for Hydro.
20 Dr. Vilbert believes that Hydro is less risky than the
21 average company in the same sample of Canadian investor-
22 owned utilities, IOU."
- 23 MS. BUTLER, Q.C.: IOU. Thank you, Dr. Vilbert. And is
24 there anything in your supplementary evidence
25 subsequently filed to these RFIs that would change that
26 opinion?
- 27 DR. VILBERT: That the ... that Hydro is less risky than
28 investor-owned utilities?
- 29 MS. BUTLER, Q.C.: Yes.
- 30 DR. VILBERT: No.
- 31 MS. BUTLER, Q.C.: No, okay. In your **supplementary**
32 **evidence** now, Mr. O'Rielly, if I might, at page four, lines 12
33 to 14. Thank you. Can you skip the first sentence there
34 and just start, if you might, Dr. Vilbert, with the sentence
35 that starts with the word, "First." I think we only need the
36 first sentence read in there, if you don't mind.
- 37 DR. VILBERT: "First, I do agree that the size of the percent
38 of the debt guarantee fee is likely to change with capital
39 structure, although probably not in the way she (phonetic)
40 imposes in the example."
- 41 MS. BUTLER, Q.C.: Okay. You can go on and just read the
42 next sentence there for me.
- 43 DR. VILBERT: "In my opinion a required debt guarantee
44 fee could be estimated by the fee that a third party would
45 charge to guarantee the debt of Hydro or it could be
46 estimated by the difference in the required yield on Hydro's
47 debt with and without the guarantee."
- 48 MS. BUTLER, Q.C.: Okay, thank you. Dr. Vilbert, is it your
49 opinion that at 80/20 or 85/15 debt-equity ratio, the debt
50 guarantee fee of one percent currently being paid by Hydro
51 to the Provincial Government is reasonable?
- 52 DR. VILBERT: I believe it to be reasonable, yes.
- 53 MS. BUTLER, Q.C.: And is it also your opinion that as the
54 equity increases it may be reasonable to decrease the debt
55 guarantee fee?
- 56 DR. VILBERT: Yes. I believe that a third party who would
57 bid to provide this guarantee would take into consideration
58 how much equity the Company has when setting that fee.
- 59 MS. BUTLER, Q.C.: Now, Ms. Greene of course has
60 pointed out that in your original testimony at pages two
61 and three you basically conclude that the appropriate rate
62 of return is not in issue in these proceedings.
- 63 DR. VILBERT: That's my understanding, yes.
- 64 MS. BUTLER, Q.C.: And that it's because Hydro is seeking
65 three percent.
- 66 DR. VILBERT: That's correct.
- 67 MS. BUTLER, Q.C.: I wonder if I might, rather than
68 spending the time with you then debating what appropriate
69 method might be used, because the entire issue is not
70 currently before the Board, just ask you some questions
71 about perhaps a related issue, which is apparent at **page**
72 **three of your original evidence at lines 13 to 18**? And
73 perhaps you might just read the first sentence in there, Dr.
74 Vilbert, please?
- 75 DR. VILBERT: "Most importantly, however, I show that
76 the total amount of the capital charges in Hydro's revenue
77 requirement will decrease as the amount of equity in the
78 capital structure increases. In other words, rates" ...
- 79 MS. BUTLER, Q.C.: Okay. Go ahead.
- 80 DR. VILBERT: "In other words, rates should decrease as
81 equity is added to Hydro's capital structure, which result
82 seems counter-intuitive precisely because the analysis by
83 cost of capital witnesses and intervenors frequently fails to
84 maintain an appropriate relationship between capital
85 structure and the return on equity and because of the tax
86 effects resulting from Hydro's status as a Crown
87 corporation."
- 88 MS. BUTLER, Q.C.: Okay. Now does your supplementary
89 evidence filed in November affect the opinion that's
90 expressed here?
- 91 DR. VILBERT: No, it does not.
- 92 MS. BUTLER, Q.C.: Alright. I wonder if we might look at

1 your **supplementary testimony, Schedule MJV-8?** Thank
2 you, Mr. O'Rielly. Now, relative to the point that was being
3 made by you at page three of the original evidence, and let
4 me see if I actually understand what's being expressed here,
5 generally the lower the equity in a corporation, the higher
6 the return on equity.

7 DR. VILBERT: Yes, that's because of financial risk.

8 MS. BUTLER, Q.C.: Right. Because, looking at your table
9 there for a moment, let's take an example, line "E," while
10 equity is 15.27 percent, you're suggesting that investors
11 would want a return in the range of 19 percent because of
12 the risk that they're taking.

13 DR. VILBERT: That's correct for this table. It's predicated
14 on the 7.08 percent after-tax weighted average cost of
15 capital which is constant, and as you increase the, or
16 decrease the amount of equity in the capital structure, in
17 order to maintain that 7.08 percent, return on equity must
18 go up.

19 MS. BUTLER, Q.C.: But the same principle applies to the
20 traditional model in the sense that as equity decreases,
21 investors would want a higher rate of return on their equity.

22 DR. VILBERT: That's correct.

23 MS. BUTLER, Q.C.: And likewise, the higher the debt, so
24 on the same line, at 83.18 percent debt, which is column
25 four, the cost of debt shown as 8.35 percent, but if the debt
26 were lower, say at line "B" at 58.45 percent, the cost of debt
27 could be lower or the debt guarantee fee could be
28 eliminated.

29 DR. VILBERT: Yes.

30 MS. BUTLER, Q.C.: Okay. In normal situations then, as
31 the debt-equity ratio improves, that is as there is more
32 equity, normally, looking at this table here which gives us
33 a good example, returns on equity are usually higher than
34 returns on debt or cost of debt, right?

35 DR. VILBERT: Yes.

36 MS. BUTLER, Q.C.: Okay. You can just compare the rates
37 in column three to the rates in column five. Because the
38 return on equity is usually higher than the cost of debt, as
39 the debt-equity ratio improves, rates paid by ratepayers
40 would increase.

41 DR. VILBERT: As the equity ratio goes up for Hydro, the
42 rate ...

43 MS. BUTLER, Q.C.: Oh, yeah. No, normally.

44 DR. VILBERT: Excuse me?

45 MS. BUTLER, Q.C.: Normally. Not for Hydro in this
46 particular application.

47 DR. VILBERT: For an investor-owned utility?

48 MS. BUTLER, Q.C.: In the normal rule as equity increases,
49 if returns on equity are higher than the cost of debt, then
50 rates for ratepayers should increase, correct?

51 DR. VILBERT: No. The point I was trying to make, for an
52 investor-owned utility ...

53 MS. BUTLER, Q.C.: Yes.

54 DR. VILBERT: ... for constant ATWACC, that means that
55 the before-tax weighted average cost of capital is also
56 constant, which means that the rates that ratepayers pay
57 are independent of capital structure.

58 MS. BUTLER, Q.C.: Right. Now in this particular situation
59 before the Board ...

60 DR. VILBERT: Yes.

61 MS. BUTLER, Q.C.: ... given that Hydro seeks a three
62 percent return on equity, which is significantly lower than
63 the cost of debt, then the rates paid by ratepayers will
64 reduce if the equity in the Company increases, is that
65 correct?

66 DR. VILBERT: If the financial leverage is properly taken
67 care of, the problem that I criticized Ms. McShane for was
68 that when she changed the capital structure for Hydro, she
69 left the rate of return on equity constant, and that has the
70 effect of increasing the required return to ratepayers here
71 because they don't adjust properly for financial risk.

72 MS. BUTLER, Q.C.: And I think ... we can just leave that
73 schedule, Mr. O'Rielly, and have a look at **KM-3**. I think
74 that was apparent in the Exhibit KM-3. Am I right, Dr.
75 Vilbert?

76 DR. VILBERT: What was your question?

77 MS. BUTLER, Q.C.: The criticism that you were making of
78 Ms. McShane's constant use of (phonetic) the factors, is
79 that apparent on this particular exhibit or can you work with
80 that exhibit in terms of explaining the criticism?

81 DR. VILBERT: Yes, I can talk about this. In the hearing it
82 became apparent to me that Ms. McShane was keeping,
83 what I would call, the before-tax weighted average cost of
84 capital constant, and at least in her example I think it was
85 **KM-1**, and what she was showing there was that as you
86 change capital structure and keep the return on equity and
87 the return on debt constant, what was really changing was
88 the implied debt guarantee fee, and so she kept, by doing
89 that she kept the revenue requirement for ratepayers
90 constant. I'm saying that the use of equity by Hydro,
91 because of its tax status, will actually reduce the required
92 rate of return or required return for ratepayers in the
93 province.

1 MS. BUTLER, Q.C.: Okay. I wonder if we might look at the
2 actual conclusions that you gave in your testimony. That's
3 **the original testimony, pages 46 and 47**. And before we
4 read any of these, Dr. Kalymon (*sic*), maybe you just might
5 take a moment to tell me whether any of these conclusions
6 have been affected by your supplementary testimony.

7 DR. VILBERT: No, I don't believe any of those conclusions
8 have changed.

9 (10:00 a.m.)

10 MS. BUTLER, Q.C.: Can you tell me whether there are any
11 implications for these conclusions to the issues that are in
12 fact before the Board on this application?

13 DR. VILBERT: I think so.

14 MS. BUTLER, Q.C.: Okay. Given, and now I'm talking
15 particularly because of the earlier testimony, pages two and
16 three, where you indicate that the rate of return is not in
17 issue in these proceedings.

18 DR. VILBERT: It is true that the rate of return is not in
19 issue but it's my understanding that the Company is asking
20 that a target equity ratio of 40 percent be established and
21 that an 11.25 percent return on equity be, I don't know what
22 the proper term would be, but would be regarded as the
23 proper goal for the Company's rate of return in the future,
24 even though three percent is what they're asking for today.

25 MS. BUTLER, Q.C.: Correct, but your opinion, expressed
26 very early in your testimony, was that this was really not an
27 issue that the Board need deal with.

28 DR. VILBERT: That's correct. The request for a three
29 percent return on equity would mean that this request is far
30 below the return on their debt and so there isn't an issue
31 about whether that's too high certainly.

32 MS. BUTLER, Q.C.: Well, an exact quote from your
33 testimony suggested that the rate is so low that the Board
34 may assume that it is relieved from determining an
35 appropriate rate in this proceeding.

36 DR. VILBERT: Yes, that would be my judgement.

37 MS. BUTLER, Q.C.: Okay. So that being the case, I'm
38 wondering whether in fact any of your conclusions are
39 particularly relevant to the task before the Board.

40 DR. VILBERT: The immediate task of setting a required
41 return on equity of three percent, I don't believe so, but
42 going forward there will be decisions about the relationship
43 between the proper return on equity and capital structure
44 that must be considered, the effect of the tax status of
45 Hydro as a Crown corporation is very important for future
46 rate making, and the fact that as equity increases, the
47 required rates for ratepayers to pay will be lower. Those
48 are all factors to me that are important, even though not

49 specifically at issue with the three percent level of
50 requested return on equity.

51 MS. BUTLER, Q.C.: Thank you, Dr. Vilbert. Those are my
52 questions, Mr. Chairman.

53 MR. NOSEWORTHY, CHAIRMAN: Thank you, Ms.
54 Butler. We'll move now to the Consumer Advocate, Mr.
55 Fitzgerald, please.

56 MR. FITZGERALD: Thank you. Thank you, Mr. Chairman.
57 Dr. Vilbert, if I could first direct you back to **NLH-18**, the
58 RFI we were looking at earlier this morning, page three, I
59 believe it is. I must have the wrong reference. Can you go
60 to the last page, Mr. O'Rielly? I don't have the reference,
61 Dr. Vilbert, and you will recollect that when I ask you the
62 question, you were shown a table this morning giving,
63 given (*sic*) deemed rates of return. There it is, **NLH-18**,
64 **page two**, and here is a diagram or a schedule indicating
65 what the implied return of, return on equity would have
66 been had your methodology regarding the ATWACC been
67 adopted, indicating the Trans Alta for 1998, implied return
68 on equity of 10.8 percent, 2000, 11.08 percent, and Trans
69 Canada, National Energy Board decision, 12.52 percent. Do
70 these figures resemble any amounts that were actually
71 awarded?

72 DR. VILBERT: The bottom two ... the last one is still in
73 progress. It hasn't been decided. The 2000 AEUB settled
74 and I'm not sure what the rate of return inherent in the
75 settlement was. In the '98 the Board awarded a 9.25 percent
76 return on equity.

77 MR. FITZGERALD: Okay. If I was to suggest to you that
78 the AEUB 2000 settlement that you referred to also arrived
79 at a figure of 9.25 percent, would you agree with me?

80 DR. VILBERT: I believe it did that in the sense that it
81 continued the current rates.

82 MR. FITZGERALD: Currently or previous, you may have
83 been here when you, during the evidence of Mr. Hall. I'm
84 not sure if you ...

85 DR. VILBERT: I was here.

86 MR. FITZGERALD: Yes. And you might recall there was
87 a schedule, and I won't bring us all to it right now, it was a
88 Dominion Bond Security Report relating to the awards that
89 the NEB was allowing for certain utilities, and it was in the
90 range of 9.61 percent. Do you recall that evidence?

91 DR. VILBERT: I do.

92 MR. FITZGERALD: Do you know if your methodology has
93 been adopted in any of those regulatory hearings?

94 DR. VILBERT: The NEB has a formula that adjusts the rate
95 of return based upon a risk premium and the, I think it's the
96 Canadian ten-year bond yield, and it adjusted ... it's called,

1 I think, RH-294 decision, and that procedure has been
2 called into question in a hearing that I'm involved in now in
3 this, the Trans Canada, precisely because the rates of
4 return that it's producing are fairly low.

5 MR. FITZGERALD: What would you describe as fairly
6 low?

7 DR. VILBERT: I guess I'm trying to decide how long-
8 winded an answer you want about Trans Canada's rate
9 case, but the issue is that if you look at Triple A rated
10 bonds right now, their yields are in the neighbourhood of
11 7.3 percent, something like that, and relative to Canadian
12 long-term ten-year bonds the spread between the Triple A
13 and the Canadian bonds has widened quite a bit. It's
14 doubled basically. And what has happened then is if you
15 use as a basis the Canadian ten-year bond yield to adjust
16 your rate of return on equity, you're squeezing the
17 difference between a Triple A rated bond and the return on
18 equity, and this is why many of the pipelines in Canada are
19 arguing that that methodology is broken right now and are
20 trying to get the Board to reconsider how to do it, and one
21 of the ways that are being considered is testimony by the
22 Brava (phonetic) Group on use of the ATWACC method to
23 compensate for this change in interest rates.

24 MR. FITZGERALD: Has the overall stock in Trans Canada
25 suffered in the recent years as a result of regulatory
26 inattention to that type of methodology?

27 DR. VILBERT: I think they would argue it has, yes.

28 MR. FITZGERALD: Do you know what, where are they,
29 say, you know, just to ballpark it?

30 DR. VILBERT: In terms of?

31 MR. FITZGERALD: In terms of return on equity.

32 DR. VILBERT: I think their last year's was nine nine,
33 something like that. I don't remember exactly.

34 MR. FITZGERALD: Has there been any, to your
35 knowledge, any appreciation in share prices in the Trans
36 Canada utility?

37 DR. VILBERT: I had a meeting with them, I'm trying to
38 remember the date, and at the time they were afraid they
39 were going to be taken over because their share price had
40 gone down so much. I haven't really followed the price in
41 the last month or so.

42 MR. FITZGERALD: Is it possible to get your undertaking
43 to file information regarding the share prices for Trans
44 Canada for last year?

45 DR. VILBERT: Sure.

46 MR. FITZGERALD: And do we understand it correctly, Dr.
47 Vilbert, that really you have no recommendation on the

48 level of the ATWACC, it's just a methodology approach?
49 I believe that's the way we understand your evidence.

50 DR. VILBERT: Well, I think it's actually more than just a
51 methodology. It's an emphasis on ensuring that the return
52 on equity and the capital structure are consistent with one
53 another, and that's inherent in the methodology but to just
54 dismiss it as simply methodology I think is, ignores the
55 primary contribution of it.

56 MR. FITZGERALD: And I believe you were asked this
57 question, but for my purposes, I understand that you have
58 not run any of the traditional tests to determine the average
59 cost of capital, being the risk premium test, the comparable
60 earnings test, the DCF test. That is not a part of your
61 testimony whatsoever.

62 DR. VILBERT: No. I was not asked to do that for Hydro.

63 MR. FITZGERALD: Those are my questions, Mr. Chair.

64 MR. NOSEWORTHY, CHAIRMAN: Thank you, Mr.
65 Fitzgerald. We'll move on now to counsel.

66 MR. KENNEDY: Thank you, Chair. Dr. Vilbert, is there, in
67 your view, any way for this Board to reconcile the
68 requested rate of return of Hydro in this application and
69 what, according to your evidence, would be an appropriate
70 rate of return based on the ATWACC methodology?

71 DR. VILBERT: If you look at my direct written evidence
72 there's some exhibits and I try to show, Exhibit No. 1, the
73 implied ATWACC of Ms. McShane's recommendation as
74 I understood originally. The forecast capital structure in
75 the year 2002, at 11.25, you, and 15 percent equity, you end
76 up with an ATWACC of 5.89 percent. If you then go to the
77 next, I think it's the next exhibit, it shows how the return on
78 equity changes as you add equity to the capital structure,
79 and you can see that as you add equity it goes down, and,
80 by the way, if you add equity it also reduces, and use this,
81 these risk adjusted returns on equity, then you get a lower
82 revenue requirement as well when you add equity. That's
83 the ... I think the major point of the testimony is that if you
84 had kept return on equity constant as you increase the
85 amount of equity in the capital structure, then the amount
86 of money that ratepayers would pay will increase, but if
87 you properly adjust for financial leverage, financial risk,
88 and recognize that the risk, the financial risk is decreasing
89 as you increase the amount of equity, then the rates that
90 ratepayers have to pay will be less than they would have
91 been. So basically this accepts Ms. McShane's original
92 recommendation of 11.25 percent and 15 percent return on
93 equity, or 15 percent equity, and shows how that return on
94 equity changes.

95 MR. KENNEDY: But if I'm gathering correctly, you're not
96 necessarily agreeing with Ms. McShane about what the
97 appropriate rate of return on the equity should be at a

1 given spot in the capital structure, what proportion the
2 equity is at any given time but more pointing out that as
3 equity changes the rate of return should change with the
4 capital structure, so it's, your evidence is more about the
5 methodology employed in making adjustments for change
6 in capital structure rather than pinpointing what an
7 appropriate rate of return should be.

8 DR. VILBERT: That's correct. I did not determine whether
9 or not the 5.89 percent is the appropriate overall cost of
10 capital. I'm just suggesting that if it were the appropriate,
11 then these are the numbers that you should have at 40
12 percent instead of 11.25 that she recommends.

13 *(10:15 a.m.)*

14 MR. KENNEDY: And if I gather correctly from your pre-
15 filed testimony, you're indicating as well that the rate of
16 return ... let me re-word that. I'm just trying to get the right
17 word here now, if you could bear with me. That the capital
18 structure of Hydro is what it is at any given moment and
19 that the Board has to determine what's appropriate and
20 what's not appropriate in that regard, that you're not
21 making a recommendation concerning the capital structure
22 either.

23 DR. VILBERT: You're correct, the capital structure is what
24 it is. As a recommendation, however, I would urge the
25 increasing the amount of equity as has been requested
26 because ratepayers will be better off if you both increase
27 the amount of equity and take into consideration the
28 change in financial risk from increasing the amount of
29 equity, so I would urge that they move to more equity, but
30 it is what it is at any point in time.

31 MR. KENNEDY: Now, I guess the jeopardy is that if the ...
32 the Board would need to be conscious of the fact that if it
33 moves towards a greater proportion of equity as part of the
34 overall capital structure of Hydro, but does not adopt your
35 recommended ATWACC methodology but instead
36 employs a more traditional risk premia methodology, that,
37 and that in the future the rate of return is, on the equity is
38 greater than the embedded cost of debt, that it will increase
39 the revenue requirement of Hydro overall.

40 DR. VILBERT: I think this is the same question I was asked
41 earlier. Let me see if I can take a little bit more time to try to
42 explain why I think that's not quite right. The first point is,
43 the estimation methods for the return on equity, whether
44 it's ATWACC or any other approach, are all the same. I
45 don't change comparable earnings, discounted cash flows,
46 capital (inaudible) pricing model, risk premium. I don't
47 change those methods at all, although I might implement
48 them slightly differently than Ms. McShane or Dr.
49 Kalymon. Nevertheless, those estimation methods are from
50 a sample of companies that have capital structures that
51 differ from Hydro and in fact there are very few of those

52 companies, none in fact in Ms. McShane's sample, that had
53 15 percent equity capital structures. If you acknowledge
54 the increased return from financial risk, then to take the
55 numbers that you get from your samples which have more
56 equity and apply that directly to a company with less
57 equity, is not correct. On the other hand, as you increase
58 the equity in the capital structure, if you don't take into
59 consideration the change in financial risk when you do
60 that, that's also, gives you an incorrect outcome. Now,
61 there are other ways to adjust for financial risk than the
62 ATWACC method but the ATWACC method is a very
63 simple and, I believe, the most theoretically correct method
64 in terms of also being consistent with empirical evidence,
65 so if the Board were to decide to increase the amount of the
66 equity and then not adjust return on equity, it would mean
67 that the ratepayers are paying more than they should pay
68 to compensate Hydro for the risk of its business and
69 financial risk. A long-winded answer to your question. I
70 don't know if I ...

71 MR. KENNEDY: I believe that's helpful to me. I guess
72 being new to the methodology that you're recommending,
73 I'm at a loss because, I guess, I'm more familiar with
74 paradigm, the existing paradigm of determining a fair and
75 reasonable rate of return, and being so you keep grasping
76 for some of the more familiar pillars and posts that guide
77 you along the way, and one of the considerations inherent
78 in the more traditional methods of determining a fair and
79 reasonable rate of return is to look to, for instance, the fact,
80 and there's been a lot of discussion about Hydro being a
81 Crown corporation and being a, at times, possibly an
82 instrument of Government as a means of furthering social
83 objectives, and that there's been discussion about how that
84 would be incorporated into the rate of return of Hydro and
85 the determination of what a fair and reasonable rate of
86 return is for Hydro. So how ... the ATWACC methodology,
87 if I'm gathering correctly, does not need to take that into
88 account, that ultimately the rate of return is still assessed
89 the way it's assessed and then the ATWACC steps in to
90 just make adjustments in the rate of return as the capital
91 structure fluctuates, or does ATWACC have embedded in
92 it, in the methodology itself, a means of looking to the
93 company, such as Hydro, being a Crown corporation?

94 DR. VILBERT: There's a couple of questions I think in
95 there. Let me see if I can deal with each of them. The first
96 is that you were wanting to anchor your thinking on the
97 traditional methods, and let me tell you that the ATWACC
98 method does nothing to the traditional methods that you're
99 used to dealing with because cost of capital witnesses will
100 come up with a recommendation that's based on what they
101 think the return on equity should be and the only thing that
102 the ATWACC method does or the main thing the
103 ATWACC method does is you must consider that there are
104 two types of risk that affect the return on equity. One is

1 business risk and the other is financial risk, and the capital
2 structures of your sample companies differ, as I said, and
3 so the ATWACC then calculates the overall return for your
4 sample companies that it considers both the debt and
5 equity and preferred stock if it has it. The next part of your
6 question is, alright, now I have my sample companies and
7 I know the overall cost of capital and that overall cost of
8 capital is a number that incorporates both the business risk
9 of my sample companies and the financial risk of my sample
10 companies in one number, and Ms. McShane has three
11 samples that she was looking at, and I would have done
12 something similar, had three samples or so, and all I do then
13 is take, try to understand Hydro's specific situation and
14 specific risk characteristics, including the kind of things
15 you're talking about, about the fact that it's a Crown
16 corporation and doesn't pay taxes, that it has more control,
17 I think it was discussed, and the previous week, cost of
18 capital hearings, that the Board, or the Hydro can request,
19 Province can request a certain amount of dividends and it's
20 basically given its wishes. These are factors then that must
21 be considered in terms of comparing Hydro to the
22 benchmarks you've established. You've got ... in Ms.
23 McShane's case, she would have three benchmarks, and
24 the question then is, how risky is Hydro relative to those
25 benchmarks, and this is where cost of capital gets into
26 some judgement, but you can ask yourself what is the
27 effect of things like the RSP on the risk of Hydro compared
28 to the typical companies in the samples used by the cost of
29 capital witnesses, and when you have those sort of factors
30 in your mind and look at the benchmarks, you can then
31 make a judgement about what the after-tax weighted
32 average cost of capital should be for Hydro relative to your
33 benchmarks. Once you have that number, you go to the
34 capital structure of Hydro and you can then calculate what
35 the appropriate rate of return on equity is given your
36 judgement on what the appropriate overall cost of capital
37 should be.

38 MR. KENNEDY: I'm not ... maybe ... so is it the case then
39 that the peculiarities of, associated with Hydro as a
40 company are, still taking into account in the determination
41 of what the fair and reasonable rate of return is using the
42 traditional methodologies, that that target is selected and
43 then after that the ATWACC methodology is used to
44 adjust the rate of return based on a mathematical, an
45 application of a mathematical formula of how the ATWACC
46 is taken into account as the equity portion changes?

47 DR. VILBERT: I think you almost have it, if I can just alter
48 it one more time. I think the difference between what I'm
49 proposing and what has been traditionally done is that
50 samples, the methods that you're familiar with, the
51 comparable earnings and the discounted cash flow and the
52 risk positioning methods, are applied to a sample of
53 companies and then that, those equity numbers are

54 adjusted for Hydro's risk. The problem with that approach
55 is that there is no consideration of, when we do the return
56 on equity, of the financial risk of the sample companies
57 compared to the target company, in this case Hydro, and so
58 the ATWACC method first figures out the overall cost of
59 capital, the after-tax weighted average cost of capital for the
60 sample, which then automatically includes both financial
61 risk and business risk in that number. Then the
62 adjustments are made based upon the relative risk of the
63 companies in the sample and Hydro to adjust the overall
64 cost of capital up or down, depending on what you believe
65 the risk to be, and then the mathematical procedure that
66 you've described at the end (phonetic) is used to come up
67 with the return on equity that would be consistent with the
68 overall cost of capital that you have now estimated.

69 MR. KENNEDY: So is it the case then that the, if you have
70 two companies and you've determined what the overall
71 cost of capital is using that methodology that you just
72 employed that as their equity levels change, the rate of
73 return on the equity will change the same for both
74 companies, that you don't make adjustments within
75 ATWACC, inside the ATWACC methodology to take into
76 account how differing levels of equity might affect two
77 different companies then?

78 DR. VILBERT: We do. That's the point. In other words,
79 hypothetically, assume you had two companies that were
80 identical in all respects except that one had 30 percent
81 equity and the other one had 60 percent equity. Well the
82 one who had 60 percent equity would have a lower return
83 on equity than the company that had 30 percent equity, but
84 their ATWACC, their overall cost of capital, would be
85 exactly the same. The only thing that's different between
86 those two companies is the way they have divided the risk
87 between equity holders and debt holders. The company
88 with more equity has ... the debt holders haven't ... you
89 know, there's not as much risk being not borne by the debt
90 holders, that the equity holders must bear.

91 MR. KENNEDY: But if we have those two companies and
92 then, as, as you, I think your sample was one has 60
93 percent equity and the other has, I think it was ...

94 DR. VILBERT: 30.

95 MR. KENNEDY: ... 30 percent equity, and if both of those
96 companies move to a point where they now have half as
97 much equity, so the company with 60 percent is now at 30
98 and the company that was at 30 percent equity is now at 15
99 ...

100 DR. VILBERT: Yes.

101 MR. KENNEDY: ... that proportionally their ATWACC
102 should be the same as what it was prior to the 60/30, in
103 other words, they'll both drop at the same level?

1 DR. VILBERT: The ATWACC would remain unchanged for
2 both of them but the return on equity will change for both
3 of them and both of them will increase.

4 MR. KENNEDY: And the return on equity for both of
5 them, being a falling out from the application of the
6 mathematical formula, will be proportional to each other in
7 that sense?

8 DR. VILBERT: No. In fact the return on equity as you ... I
9 think there's also an exhibit I have here which shows how
10 the return on equity changes as capital structure changes.
11 When you get to high levels of debt or low levels of equity,
12 the return on equity to give a full compensation to the
13 equity holders goes up faster than it does at higher levels
14 of equity, and part of that is mathematical but a part of it is
15 logical. If you think about what's happening when you go
16 from 40 percent equity to 20 percent equity, it means that
17 the entire risk of the company that's not being borne by the
18 debt holders is now being borne by equity holders of only
19 20 percent, whereas before there were twice as many equity
20 holders, and that's not quite the same as going from 40 to
21 60 because now you're getting double the amount of risk
22 that's being borne.

23 MR. KENNEDY: This is the, if I'm gathering correctly, the
24 band (phonetic) and that as long as the changes are within
25 a certain range, it should be almost a one-to-one effect, but
26 if you start to hit the peripherals on either side, that the
27 impact may be more exponential in nature, if you will, rather
28 than a one-to-one effect.

29 DR. VILBERT: I don't know if I agree with the one-to-one,
30 but there's a couple of concepts there. One is that it's not
31 true that the ATWACC is constant in all capital structures
32 because there are some capital structures in which it's
33 inefficient, and for an industrial utility, specifically initially
34 there's tax advantage to use of debt by an investor-owned
35 utility and that tax advantage reduces, well increases the
36 cash flows to debt holders and equity holders, primarily
37 equity holders, and as you start to use debt, the total cost
38 of capital will start to decrease. It reaches a sort of a flat
39 middle section for the sort of standard capital structures
40 you observe for most companies in an industry and then
41 begins to increase as you get to very high levels of debt.
42 The reason it starts to increase is because the risk of
43 bankruptcy and financial distress, which are costs
44 associated with excessive levels of debt, begin to outweigh
45 any tax savings that you might have from use of more debt,
46 so as a result the capital structure, the overall cost of
47 capital has kind of a U-shape with a flat middle section
48 where the cost of capital is constant in that range. Now
49 you had said one-for-one change, and what really happens
50 within that flat range is the ATWACC is constant and the
51 cost of equity will adjust to compensate for financial risk to
52 keep that ATWACC constant within that range, or another

53 way of saying that is that you can use this methodology
54 then to adjust the required return on equity as you change
55 the capital structure and ensure that two equally risky
56 companies who have different capital structures are
57 appropriately compensated in terms of their rate of return
58 on equity that takes into consideration both the business
59 risk and the financial risk of the company.

60 *(10:30 a.m.)*

61 MR. KENNEDY: You recognize that the Board uses a
62 different methodology for regulating the rate of return on
63 the, on Newfoundland Power, and in the sense that the ...
64 the automatic adjustment formula, I'm speaking to.

65 DR. VILBERT: Yes.

66 MR. KENNEDY: And in reply to a question from Mr.
67 Fitzgerald you indicated that, I believe it's the NEB is at
68 least reviewing whether it would continue with the
69 automatic, a similar automatic adjustment formula or move
70 to an ATWACC methodology.

71 DR. VILBERT: We're encouraging them to do that. I don't
72 know if they're going to do it.

73 MR. KENNEDY: Is there a benefit to be gained or
74 conversely are there problems that could arise from having,
75 in this instance, in the specific instance for the Province of
76 Newfoundland, the generator Hydro regulated under on
77 methodology and Newfoundland Power, the main
78 purchaser of the power produced by Hydro, regulated
79 under a different methodology, or can the two of them
80 operate at the same time?

81 DR. VILBERT: I guess we're back again now to this same
82 issue, and let me be sure that I understand what you're
83 saying, or you understand what I'm saying, I guess. The
84 ATWACC method again starts with the exact same
85 procedures to estimate the return on equity as is used for
86 Newfoundland Power to estimate its return on equity. The
87 only difference is they're now on, once their rate of return
88 is set, it adjusts with a formula as opposed to, which is,
89 well, what would happen to Hydro I'm assuming until the
90 next rate case, or maybe not a formula, it'd just be stuck at
91 a particular level of return until the next rate case, but in
92 either case there's nothing inconsistent about using the
93 ATWACC method or the traditional method to estimate the
94 cost of equity. The inconsistencies arise when people
95 don't take into consideration financial risk when they set
96 the return on equity for two like situated companies, and
97 that's why in the States at least, and in Canada I think, there
98 are these raging battles over the appropriate capital
99 structure, because the raging battles centre on the fact that
100 if the utility can convince the board to increase its amount
101 of equity while simultaneously not reducing the return on
102 equity, then the utility wins. On the other hand, if the

1 advocates for the ratepayers' side can convince the Board
2 to reduce the amount of equity in the capital structure
3 without increasing the return on equity, then the ratepayers
4 win.

5 MR. KENNEDY: Okay. So we're familiar with the
6 shortcomings, if you will, on the process of unlinking the
7 capital structure of a utility with its rate of return on its
8 equity.

9 DR. VILBERT: Okay.

10 MR. KENNEDY: And I'm wondering if you, being more
11 familiar than I with the ATWACC methodology, could
12 perhaps give me a heads-up and in turn the panel on what
13 the shortcomings are of the ATWACC methodology? In
14 other words, if I was a utility regulated under the
15 ATWACC methodology, how would I gain that?

16 DR. VILBERT: How would you gain it?

17 MR. KENNEDY: How would I gain it?

18 DR. VILBERT: Can we start with the investor-owned utility
19 because I think it's clearer, it's easier there? An investor-
20 owned utility, if I, if the Board were to set the allowed
21 return, the revenue requirement on the ATWACC method,
22 then there's no gaining that you can do, and in fact the
23 Board could free the Utility to select any capital structure
24 it chooses because the revenue requirement would be
25 completely unaffected by that choice, and so all the Board
26 would have to worry about was whether or not the overall
27 cost of capital was estimated properly for the risk of that
28 business. Once that's done, the ATWACC method is now,
29 you can't game (phonetic) it, because changing the capital
30 structure doesn't change your revenues to you, doesn't
31 change the revenue requirement, doesn't change the rates
32 that ratepayers pay, but it will change the mix of return to
33 debt and equity depending on the capital structure selected
34 by the utility. Going to Hydro, things are a little different
35 and the reason they're different is because Hydro, because
36 it pays no income tax, it has an advantage through the use
37 of equity. That's why the revenue requirement for Hydro
38 is always lower than the revenue requirement for an
39 investor-owned utility, because there's no taxes that have
40 to be paid. On the other hand, Hydro has a disadvantage
41 when it comes to debt. The interest payments made on
42 debt are a tax deductible item for investor-owned utilities,
43 and as a result of that the after-tax cost of debt is less to an
44 investor-owned utility than it is Hydro. Hydro gets no
45 advantage from that, but when it competes to get the debt
46 in the market, it's competing with investor-owned utilities,
47 other agencies, that do have an income tax advantage when
48 it comes to the use of debt, and so they, Hydro pays
49 roughly the same cost of debt as an IOU roughly but gets
50 no tax advantage. So what does all that mean for Hydro?
51 Well it means that the use of equity, which is tax

52 advantaged for Hydro, is beneficial, and the use of debt
53 which it has a lot of right now, is a disadvantage because
54 there's no tax benefit to the interest that's paid. Now Hydro
55 does receive the, or the province does receive the debt
56 guarantee fee, (inaudible) income, but that's just
57 compensation for the increased risk of having a capital
58 structure with so much debt. Now, I'll stop there and let
59 you ask me where you want me to go next. I can continue
60 if you like.

61 MR. KENNEDY: Well, and actually it leads to just the last
62 area I wanted to speak to, speak about, which is the
63 guarantee issue, and I noted that in your pre-filed
64 testimony you seemed to be fairly emphatic that the debt
65 guarantee has no impact on ATWACC, and yet, you know,
66 in some senses that's counter-intuitive again to me being
67 more familiar with the sort of traditional way of looking at
68 the regulation of a utility, so, and then you just mentioned
69 the guarantee in the same phrasing of the determination of
70 the ATWACC, so I'm just wondering if you could speak to
71 that a little more, about why it is that the guarantee has no
72 impact on ATWACC and yet at the same time in effect
73 affects Hydro's ability to access debt on the market.

74 DR. VILBERT: Okay. Let's start with the debt guarantee
75 fee then. As I suggested earlier today, Hydro could issue
76 debt without the fee, without the guarantee, and
77 presumably the required yield on that debt would be higher
78 than it is with the guarantee. To the extent that they ... and
79 if the fee is fair, which in a sense means that its actuarially
80 fair, that this is the proper insurance premium necessary to
81 provide the guarantee and that the guarantee, grantor is
82 being paid a proper fee, then that is essentially an interest
83 charge because Hydro could have issued the debt without
84 the guarantee at a higher interest rate than it does or it
85 could issue the debt at a lower interest rate, include the
86 guarantee fee, and that, I assumed in my evidence, for
87 purposes of my evidence, that those two numbers were
88 roughly the same. In fact I assumed they were exactly
89 equal. As a result of that, that means that the cost of debt
90 is now properly established in the weighted average cost
91 of capital for Hydro and that all that remains then is to
92 figure out the appropriate return on equity that goes with
93 the after-tax weighted average cost of capital. Now it's also
94 true though that if the province were to substitute equity
95 for debt, it is getting, it's earning that fee right now, and
96 that's money in its pocket, that would be giving that up.
97 On the other hand, it would be earning the rate of return on
98 equity, which is going to be higher than the return on debt
99 for its increased use of equity, and ultimately it'll make more
100 money that way than it would have made if it were running
101 as a business. This is a good investment in a sense, what
102 I'm suggesting to you. They put the money into Hydro,
103 they'd get an ongoing cash flow stream from its investment
104 in equity and the ratepayers of course would get a benefit

1 because equity is tax advantaged for Hydro and debt is tax
2 disadvantaged.

3 MR. KENNEDY: Just so I'm clear, and it may be just a
4 quick assumption that you ran through, you indicated that
5 the equity would be a higher rate of return than the debt,
6 and again you're not providing evidence on what the
7 appropriate rate of return should be on equity and whether
8 in fact it should be higher or lower than the embedded cost
9 of Hydro's debt.

10 DR. VILBERT: As a general principle equity is more risky
11 and therefore requires a higher return than debt. Now, you
12 could possibly, I suppose, get into a situation in which the
13 market cost of debt ... well, let me back up and say the
14 market cost of debt and the market cost of equity, in those
15 circumstances, the market cost of equity will always be
16 greater than the market cost of debt because it's a riskier
17 security. If you go to embedded cost of debt which
18 changes with a lag, you could imagine a circumstance in
19 which the embedded cost of debt is very high just because
20 interest rates at some point in the past was very high and
21 the going forward cost of equity would be lower than the
22 embedded cost of that debt. Most places have call
23 provisions and bonds to avoid that problem so that you
24 can, say, call back your bonds that are very high interest
25 rates and replace them with a more moderate cost of debt
26 going forward, but basically the answer is equity is always
27 more expensive than debt.

28 MR. KENNEDY: Based on a market ...

29 DR. VILBERT: Market costs.

30 MR. KENNEDY: Market costs. And so again you haven't
31 looked to specifically and you're not making
32 recommendations to the Board concerning what the
33 appropriate rate of return on Hydro's equity should be.

34 DR. VILBERT: No, I wasn't asked to do that.

35 MR. KENNEDY: And so you haven't taken into account
36 any considerations about, as discussions have taken place
37 on the evidence, about who the investor of Hydro is and
38 whether that should impact on the appropriate rate of
39 return on equity. You haven't included that in your pre-
40 filed testimony, is what I'm saying.

41 DR. VILBERT: No.

42 MR. KENNEDY: You indicated that in the, using the
43 ATWACC methodology, that it's, you seem to describe it
44 as almost a fail-safe methodology, that there's no way to
45 gain the methodology, and you indicated that the Utility
46 could choose any capital structure that it wanted to within
47 the ATWACC methodology because its rate of return is
48 always going to be adjusted no matter what the amount of
49 equity will be at any given moment in time, but would it not

50 be appropriate that if the Board were to move towards an
51 ATWACC process that it should also provide at least some
52 thresholds, minimum and maximums of what the equity
53 should be in a company?

54 DR. VILBERT: I agree, yes, they should, and the reason is
55 because, to back up and emphasize, the reason the
56 ATWACC method would allow the company to use any
57 capital structure it likes is because the return would be fixed
58 at a constant rate and so changing the capital structure
59 doesn't provide the company any more return on equity or
60 any less return on equity by adjusting the capital structure.
61 But capital structure, companies choose capital structure
62 for more than just trying to adjust the return on equity.
63 There are bond provisions, there are appropriate levels of
64 capital structure based upon things like how much
65 operating leverage the company has and how risky they
66 view it to be, and so the Board may be concerned or may
67 want to ensure that a utility doesn't move one direction or
68 the other too far for other reasons than the rate of return in
69 the overall cost of capital.

70 *(10:45 a.m.)*

71 MR. KENNEDY: If you were to, as a Board, impose an
72 ATWACC process for the automatic adjusting of the rate
73 of return, would you also provide some time frame for when
74 reviews would be conducted, and, if so, how long would
75 you recommend?

76 DR. VILBERT: I think that there are a couple of issues
77 there. One is cost of capital reflection of interest rates in
78 the economy and it's not a one-for-one sort of thing, but
79 you know that as interest rates go down, generally cost of
80 capital goes down and vice-versa. You could also ... but
81 you'd also want to be concerned about whether or not the
82 nature of the business that is being regulated is changed in
83 some way for reasons outside of the control of the
84 company. Specifically, if you thought that the industry
85 was becoming much more risky for some reason, perhaps
86 you'd need to have a review of the cost of capital on a more
87 frequent basis. If you thought things were pretty stable
88 and static, you may not need another review for some
89 extended period of time, and particularly if the company is
90 reporting to you its earnings and you feel comfortable that
91 they're providing a quality of service that you want the
92 utility to provide and they're not over or under earning by
93 any dramatic amount, there's probably no need to have
94 another rate of return hearing. They're costly and not
95 always much fun.

96 MR. KENNEDY: But clearly a utility might be anxious to
97 get back before the Board if it felt that its business risks
98 had increased or other factors may have contributed to it
99 feeling that it's entitled to a greater rate of return than what
100 was previously set under its ATWACC, but may not be as

1 anxious to get back if its business risks have fallen or
2 conditions have changed in favourable terms, sort of a
3 rockets and feathers approach to economics. So how is it
4 that the Board, and what should the Board look to as
5 factors in determining when a new ATWACC hearing
6 would be triggered off, on the low side, if you will, or the
7 side where it's unlikely that the utility would be the one
8 coming forward?

9 DR. VILBERT: I think it would ... it's the case that this
10 would happen either methodology, would it not? I mean,
11 in other words, returns that a company earns, whether it's
12 being regulated on the basis of ATWACC or basis, just
13 return on equity and a fixed capital structure. Either one of
14 those circumstances are going to be the kind of issues you
15 just raised if ...

16 MR. KENNEDY: Yes, and in the case of Newfoundland
17 Power with an automatic adjustment formula, there was a
18 specific sunset, if you will, on the application of that
19 automatic adjustment formula and a requirement for
20 Newfoundland Power to come back before the Board for a
21 full review of the application on that formula, which is
22 scheduled to take place in 2002, so that's why I was asking
23 you about the time frames on the ATWACC methodology
24 but you didn't seem to suggest any, so I'm looking more to
25 then specific indice of what would trigger off an ATWACC
26 if it's in fact not a time frame that would be appropriate.

27 DR. VILBERT: I think the same sorts of things that you
28 would look at. You would look at the earned returns on
29 equity and determine whether or not, if you're an
30 intervenor, look at their capital structure, what the
31 authorized ATWACC was and evaluate the earnings that
32 they're getting on their return on equity and determine
33 whether or not this is high or low relative to what it should
34 have been. If you're an intervenor and it seems like they're
35 really making tonnes of money, probably going to want to
36 come in and ask for a rate hearing to see if you can get the
37 rates reduced, and if you're the company, I suspect you'll
38 have high incentives to come in if you find that your
39 returns on equity aren't, you're not able to earn your
40 allowed returns on the ATWACC. I don't know that that's
41 a time period sort of thing although there probably is some
42 period of time where it would be nice to refresh the whole
43 set of cost of service but I don't know that particular set
44 times ... well, let's say, there has been proposals to just, to
45 deal with it based upon things like percentage change and
46 interest rates since the rates were set originally, and you
47 could adopt something like that, and that's probably
48 something that will come up in NEB proceedings.

49 MR. KENNEDY: Chair, if it's appropriate, I'd like to break
50 now. It'll give me an opportunity just to review my notes
51 on the break. We went through in rather lickety-split time
52 this morning, so ...

53 MR. NOSEWORTHY, CHAIRMAN: I agree, yes. Thank
54 you. We'll break now until 10 after, please.

55 (break)

56 (11:15 a.m.)

57 MR. NOSEWORTHY, CHAIRMAN: Thank you. Mr.
58 Kennedy, can I ask you to continue or are you finished?

59 MR. KENNEDY: No, Chair, I just have a couple of areas
60 that I just wanted to quickly canvas with Dr. Vilbert. Dr.
61 Vilbert, one of the counsel, I believe it was counsel for
62 Newfoundland Power, indicated that ... or had you confirm
63 that it was your assessment that Newfoundland and
64 Labrador Hydro had a, I believe the term was a below
65 average business risk profile. Is that correct?

66 DR. VILBERT: I think the question was whether I ... in
67 relationship to the investor owned utilities that I would
68 have compared it to in the samples that were on the data
69 request No. 18 from Newfoundland Hydro ... or
70 Newfoundland Power, that the business risk is less than
71 the investor owned utilities.

72 MR. KENNEDY: And I'm wondering if you could just
73 indicate to the Board what factors you would have looked
74 at in making the determination, making that determination
75 that Hydro has a below ... a risk profile below that of the
76 IOUs?

77 DR. VILBERT: I think there are several things, and I should
78 add that I did not study this carefully, just because I was
79 not asked to establish a rate of return for Hydro, but there
80 are things that came to my attention as I was getting ready
81 for the hearing, one of which is you have the rate
82 stabilization program; you are not in the process of
83 deregulating your electric utility industry; you are a utility
84 that is isolated from other electric utilities which is a
85 weakness in the sense that you don't have anybody to fall
86 back on if you have problems, but it also means that you
87 don't have any competition from power generated outside
88 the province. You have a unique situation in that the
89 province is the shareholder and also has the ability to
90 direct that the Company pay dividends, which most
91 shareholders don't have that luxury, and presumably, if
92 dividends are paid then the combination of the Board and
93 the Company will have to adjust their activities to
94 compensate for that, so these are all things that I think are
95 risk reducing relative to an investor owned utilities that are,
96 some of them being subject to competition in a variety of
97 ways and don't have the luxury of being able to direct the
98 Board to do anything.

99 MR. KENNEDY: The first ones ... just this final point on
100 this issue. For instance, the presence of the RSP, the fact
101 that there's no movement towards a deregulated market, it
102 being isolated from the North America grid and therefore

1 fewer competitive forces at play, they would be business
2 risks that a bondholder would look to as well as a equity
3 investory (*sic*) would look to, correct?

4 DR. VILBERT: Yes. Bondholders, however, I think, are
5 concerned about somewhat different risks than equity
6 holders. In finance theory there's the concept of systematic
7 or non-diversifiable risk, and in the capitalistic pricing
8 model that's the risk that's being compensated.
9 Bondholders, on the other hand, are really concerned with
10 sort of total variability in return because what they are
11 worried about is whether they're going to get their money
12 back and whether they're going to get their interest as
13 promised, and so while total variability doesn't impact as
14 much systematic risk, it's a big factor for bonds.

15 MR. KENNEDY: Just curious, I guess, of the last example
16 that you gave concerning the fact that the province being
17 the shareholder has some influence over the payment of
18 the dividends from Hydro being one of the things that you
19 took into account in determining that Hydro has a risk
20 profile below the average IOU, and I guess I had some
21 questions of Ms. McShane regarding the ability of the
22 shareholder in this instance to require of Hydro to pay
23 dividends at certain points in time and in certain amounts
24 as having some inherent value. Is it your testimony then
25 that that's something that should also be taken into
26 account, the fact that the dividends can be called upon at
27 a given moment in time by the shareholder should be taken
28 into account necessing (*sic*) the risk that the shareholder
29 is presented with in buying equity, theoretically, in this
30 company?

31 DR. VILBERT: Yes, I think so because the shareholders of
32 an IOU have no such ability, and the ability ... I think it's
33 tied to two things, as well. One is the shareholders of an
34 IOU have no ability to do that, and therefore, that means
35 the cash flow to the province, as equity holder, is much
36 more assured than it would be for an IOU, and the other
37 part of that is that should the province determine that a
38 dividend of a certain amount is appropriate, then both the
39 Company, Hydro, and the Board must work to make that
40 work out, is my understanding, and of course, this is, again,
41 it's not something that IOU has in its back pocket.

42 MR. KENNEDY: Dr. Vilbert, you'll recognize, if you will,
43 that as far as I'm aware, at least, this is the first time that an
44 expert has put forward the ATWACC methodology as a
45 proposed mechanism for making adjustments to the rate of
46 return of a utility, based on its capital structure to this
47 Board, at least, and I'm wondering, being cautious in
48 nature, as boards often are, instead of leaping straight to a
49 full adoption of the ATWACC methodology from where we
50 stand today, is there an appropriate mid step that the Board
51 could go to as a sort of the transition process in order test
52 drive, if you will, the ATWACC concept without fully

53 adopting it so that they could see how it's working and
54 how it's not working?

55 DR. VILBERT: Yes, I believe so and in fact, just to
56 followup your comment about it being adopted, one of the
57 things that absolutely astonished Dr. Colby and I, when we
58 presented the ATWACC method to the Alberta Energy
59 Utility Board, is that they did adopt it based upon the first
60 time they had heard it, and we can go in later, if you like, to
61 why they made the one change they made. But that was
62 the first time it had been presented to them and when we
63 left the hearing we thought we had completely sold them,
64 and I think we had. Subsequent events, some information
65 they got that we didn't have a chance to speak to, caused
66 them to adjust their decision, but the point is what they did
67 was to make it in parallel to this traditional approach so that
68 you could sort of see what's going on, and I think as an
69 intermediate step the Board could do something like that,
70 as well as, even if they decide not to adopt the ATWACC
71 method, if simply keeping in mind the return on equity is a
72 function of at least two things, business risk and financial
73 risk, and making an explicit adjustment as you change
74 capital structure for the return equity. Those are
75 movements in the right direction, short of a full fledged
76 adoption of the ATWACC method.

77 MR. KENNEDY: Just curious, what was the additional
78 evidence that changed that Board's decision regarding the
79 full adoption of the ATWACC?

80 DR. VILBERT: I'm glad you asked me. What happened
81 was we went through the hearings and everybody put their
82 evidence in and then people filed briefs, and in the brief,
83 additional evidence was submitted that Dr. Colby and I did
84 not have a chance to rebut, and the evidence specifically
85 was that if you graph what appears to be the measured
86 ATWACC versus capital structure, what it appears to show
87 is that as you use more debt the ATWACC goes down,
88 and we didn't get a chance to respond to that, and in fact,
89 if you graph it on a book value basis it appears to be flatter
90 than it does on a market value basis, and that was their
91 decision, they decided to use book value weights instead
92 of market value weights. I brought a footnote which will be
93 in the next textbook that's produced by Breely and Myers
94 (phonetic) Professor Richard Breely and Stewart Myers.
95 Myers is ... well, both Breely and Myers are members of the
96 Brava Group (phonetic) and Stewart Myers is a professor
97 at MIT. Dr. Breely is now at the London Business School
98 of Economics, and this is a footnote that specifically
99 addresses the issue. It'll be in the next edition of the book,
100 and I can give it to people to copy, but can I read it now?

101 MR. KENNEDY: Go right ahead, absolutely.

102 DR. VILBERT: I may have to stop periodically to sort of
103 explain what's going on because this is a footnote into a

1 section of a book that's moderately complicated, but "Some
2 financial managers argue that the costs of debt and equity
3 increase rapidly at high debt ratios because of the cost of
4 financial distress. This, in turn, would cause the WACC
5 curve in Figure 19 to flatten out and finally increase as debt
6 ratios climbed. There may be other costs to excessive debt
7 in addition to the risk of outright financial distress, for
8 example, loss of financial flexibility. Formal modelling of the
9 interactions between the cost of higher debt ratios and the
10 expected rates of return on a company's security is not
11 easy. No one knows just when the value of interest tax
12 shields begin to be offset by the cost of too much debt, nor
13 are all of the costs of excessive debt reflected in the cost of
14 capital, some should be used to reduce the expected cash
15 flows. Personal taxes may offset the corporate tax
16 advantage of debt too. All of this suggests a shortcut
17 used by some practitioners, instead of trying to model
18 precisely the cash flow and cost of capital impacts of more
19 debt when considering the different financial structure,
20 simply treat the industry WACC estimated from a sample of
21 companies as constant, regardless of the capital structure,
22 at least within the normal range of observed industry debt
23 ratios. This is equivalent to the substitution of the after tax
24 cost of debt for the pre-tax cost of debt in the above un-
25 leveraging and re-levering formulas."

26 As I say, there's a whole lot of other things being
27 discussed in this section of the textbook, but basically
28 what they are saying is that the reason that the graphs
29 looked the way they did, which is to say that it appears that
30 the ATWACC instead of being constant as you add debt
31 to the capital structure decreased, is because not all of the
32 costs of debt are measured in the terms of the yield on the
33 bonds, some of the costs of debt are things like loss of
34 financial flexibility, the cost of financial distress which are
35 not fully showing up in the cost of debt. And so even
36 though these graphs showed the appearance that it wasn't
37 flat, it's more a matter of the fact that these other things
38 were not being captured, and so as a simplification to a
39 fairly complex problem, treat it as flat is the best way to
40 approach it, and there's another section in the textbooks
41 that talks about, and I didn't bring that reference, I think I
42 included it somewhere in my evidence that the market value
43 weights were the appropriate weights, not the book value
44 weights, because it's the market value of evidence that
45 we're considering. Nobody really cares what the book
46 value, other than at a utility proceeding, nobody really
47 cares what the book value of the stock is. It's really the
48 market value that matters. I could give you this if you want
49 a copy.

50 MR. KENNEDY: And so just to complete that, the market
51 value is a surrogate for these other more unquantifiable
52 aspects to what happens when a company gets highly
53 leveraged, that those types of ... the inflexibility in its

54 financing would not necessarily show up as a ... is a form
55 of pressure on the company that's not reflected in the yield
56 that it pays on its bond, but is reflected in the market value
57 of its stock?

58 DR. VILBERT: Yes.

59 MR. KENNEDY: Okay.

60 DR. VILBERT: In essence, that's right, some of the costs
61 just don't show up in the measured ATWACC.

62 MR. KENNEDY: That's all the questions I have, Chair.

63 MR. NOSEWORTHY, CHAIRMAN: Thank you, Mr.
64 Kennedy. We'll move now to Industrial Customers, Mr.
65 Hutchings, on redirect, please?

66 (11:30 a.m.)

67 MR. HUTCHINGS: Yes, thank you, Mr. Chair. Dr. Vilbert,
68 I just wanted you to look, for a moment, at **Consent 10**,
69 which was the extract from the AUB decision that Ms.
70 Greene gave you this morning. The second page of
71 **Consent 10**, you were referred to the top page where the
72 Board was discussing the use of the traditional and
73 modified ATWACC. Just by way of background, can you
74 explain for us the relationship, as you understand it,
75 between EPGI, EPTI and Trans Alta?

76 DR. VILBERT: Trans Alta is the company for which we
77 were giving the evidence, and they are ... they were at the
78 time an integrated electric utility with generation
79 transmission and distribution mostly in the southern part
80 of the state. I think ...

81 MR. HUTCHINGS: The province.

82 DR. VILBERT: Excuse me?

83 MR. HUTCHINGS: The province.

84 DR. VILBERT: Oh, excuse me, sorry. EPGI and EPTI, I
85 think, are Edmonton Power gas and the other one is
86 transmission, and they are, as it says, nontaxable entities in
87 the province.

88 MR. HUTCHINGS: So your evidence was not directed
89 toward EPGI or EPTI?

90 DR. VILBERT: No, not at all.

91 MR. HUTCHINGS: Okay. The part that you read this
92 morning, at the request of Ms. Greene, refers to the notion
93 that the modified ATWACC model collapses to the
94 traditional method used to determine fair return, in their
95 view, because of the fact that these two entities do not pay
96 income tax. Can you, first of all, try to explain, for my
97 benefit, what you understand them to be saying about the
98 collapsing to the traditional method and whether or not you
99 feel that's a correct statement of the effect?

1 DR. VILBERT: First of all, I have to say that I haven't read
2 this decision in some time and I don't really remember what
3 they meant there, but I honestly don't understand what
4 they mean there. It doesn't seem to me that they're ... the
5 words don't convey to me what I understand them to be
6 saying, so it's hard for me to respond to that part of it. But
7 one of the issues that came up with trying to set the rate of
8 return for Hydro is to try to understand the relationship
9 between the after tax weighted average cost of capital for
10 an IOU, which we're using as the benchmarks for Hydro
11 and the ... which, when you gross it up, becomes the before
12 tax weighted average cost of capital for an investor owned
13 utility, both of which are constant, compared to Hydro
14 which, when you gross up the return to get the revenue
15 requirement from an ATWACC is not constant for Hydro,
16 and so when it says that it collapses to the traditional, I
17 think what they mean is is when you gross up the return on
18 debt from an ATWACC to get the before tax return on debt
19 and you don't have to gross up the return on equity for
20 these nontaxable entities, you end up then with what is the
21 regulated weighted average cost of capital for Hydro which
22 is an after tax rate of return equity and a before tax return
23 on debt. I think that's what they mean by that passage, but
24 it's not quite clear to me that that's exactly right.

25 MR. HUTCHINGS: Okay, so in terms of the evidence that
26 you were giving in Alberta, there was not an issue about
27 nontaxable entities that you dealt with?

28 DR. VILBERT: That's correct. Trans Alta is highly ...

29 MR. HUTCHINGS: Trans Alta is taxable?

30 DR. VILBERT: Taxable, yes, IOU.

31 MR. HUTCHINGS: Just one other brief point. In your
32 discussion with Mr. Kennedy you spoke about the ability
33 of the shareholder of Newfoundland Hydro to control the
34 payment of dividends, and your reference then was that the
35 Company and the Board must work to make that work out.
36 When you referred to the Board in that instance, were you
37 talking about the Board of Directors of Hydro or this
38 Board?

39 DR. VILBERT: It's my understanding that it really applies
40 to both of those boards, but that whether or not the
41 Regulatory Board wants the dividend to be paid, it will be
42 paid. It's my understanding at least that that's the case,
43 and then the situation will be such that everyone has to
44 work hard to be sure that that happens as requested and
45 the operations of the Company is not impacted too
46 negatively by that decision.

47 MR. HUTCHINGS: Okay. Thank you, Dr. Vilbert. Those
48 are my questions on redirect, Mr. Chair.

49 MR. NOSEWORTHY, CHAIRMAN: Thank you, Mr.
50 Hutchings. We'll go to Board questions now. Mr. Powell,

51 please, Commissioner Powell, please?

52 COMMISSIONER POWELL: Thank you, Mr. Chair. Dr.
53 Vilbert, I enjoyed reading your presentation. A lot of food
54 for thought. As you said, we really don't have to make the
55 decision at this point in time because Hydro has sort of
56 asked us to make a different one, but what I was interested,
57 when was the first time that the ATWACC was proposed?

58 DR. VILBERT: I neglected to mention, because it wasn't
59 asked earlier, that it had been used in the United Kingdom
60 as well in the regulation of electric utilities over there.

61 COMMISSIONER POWELL: When?

62 DR. VILBERT: I think they started using it, or a form of it,
63 in the mid '90s. I don't remember the exact time period, but
64 if I may say, one of the things that the Brava group has
65 done for a long time in submitting evidence was to adjust
66 the rate of return we recommend before differences in
67 capital structures between our sample companies and the
68 target company, and so we've done that for a long time.
69 The difference with the ATWACC method is in the past we
70 had used three different methods because there were
71 several different theories about how taxes affect the rate of
72 return on equity, and basically what we decided to do,
73 rather than put three different theories in, which tended to
74 have the effect of confusing everyone, we settled on the
75 theory that is not only the simplest but also corresponds to
76 the empirical evidence the best, and we did that
77 presentation before Trans Alta in 1998. That was the first
78 time the method was set forward in that fashion.

79 COMMISSIONER POWELL: In Canada?

80 DR. VILBERT: In Canada.

81 COMMISSIONER POWELL: Any other jurisdictions in
82 North America?

83 DR. VILBERT: Yes. We did this almost simultaneously, we
84 did it in California before the California Public Utility
85 Commission and it was for Pacific Gas and Electric. The
86 commission there was not as bold as the commission in
87 Alberta and shot us down, but interestingly then all the
88 intervenors who had railed against it adopted it as a way to
89 adjust the return equity for changes on capital structure
90 that they were recommending, so it was sort of snuck (*sic*)
91 in the back door by the intervenors even though the board,
92 or the commission decided not to adopt it.

93 COMMISSIONER POWELL: One of the issues, or the
94 number of issues we're having to deal with. One of the
95 issues is Hydro is, in their presentation and the evidence
96 we've heard so far, is proposing that they be treated like an
97 investor owned utility, but at the same time they come
98 towards the Board saying that we only want a three percent
99 cost of capital but they think that ten and a half percent is

1 correct. Now, how do you, as a professional dealing with
2 that, look upon a utility sort of saying one thing but asking
3 something that seems to be ... so I think you said that the
4 rate is so low in relation to normal returns granted. How
5 can you rationalize that, how would you rationalize that?

6 DR. VILBERT: I basically accepted the explanation offered
7 by the Company, which is, as I understood it, that there is
8 a transition from interest coverage methodology of rate
9 making to one of rate of return on rate base and going to a
10 full justified risk adjusted rate of return on equity would be
11 such a rate shock that they thought it better not to make
12 that transition. Were I a shareholder of such a company I
13 would be unhappy with them, but in this circumstance it
14 seems like a reasonable way to proceed to make the
15 transition from one methodology to another.

16 COMMISSIONER POWELL: So you don't think that the
17 fact that they're a government owned utility as opposed to
18 an independent investor owned utility, going this method,
19 there's nothing really wrong with it, other than being a
20 shareholder you may feel ... wondering what the
21 management is doing, but the process itself?

22 DR. VILBERT: You mentioned another thing in your
23 question, and that is I think one of the disadvantages of
24 regulated companies and probably in particular government
25 owned regulated companies, is that the incentives are not
26 the same as they would be for an investor owned company,
27 and those incentives, profit motive and those sorts of
28 things, have been well known to lead to more efficient
29 operations, and to the extent that you can alter Hydro's
30 incentive structure in a way that provides them the
31 incentive to be more efficient, I think that's a good thing.
32 As far as the three percent, you know, as I say, I accept
33 what the Company says is the reason they chose that
34 number.

35 COMMISSIONER POWELL: Was there any other
36 recommendation that you would recommend that they
37 would go with the full cost of capital and blend in the rate
38 shock? Do you have any examples of that?

39 DR. VILBERT: Where they would deliberately ask for a
40 lower rate of return?

41 COMMISSIONER POWELL: No. That they deliberately ...
42 or they come in and say here is our appropriate rate of
43 return, be it 10.5 or whatever, but here is the effect on rates
44 but we don't think the ratepayers should have to pay all
45 this but they should be phased in, say, over a three year
46 period or a two year or five year?

47 DR. VILBERT: I think that happens periodically. I know
48 that in some states in the States, California, for example,
49 which has a rate hearing on cost of capital every year, they
50 try to do that by ... their method is to say the rate of return

51 on equity will not go up by as much as we think justified in
52 this year because of changes in interest rates, let's say, in
53 the economy in order to deliberately sort of dampen out the
54 rate shock to investors. That's a comparable sort of thing
55 to what they're doing here. I suppose the alternative here
56 could be to publish rates, what they would be if a full risk
57 adjusted rate of return were authorized and then phase
58 those in at some schedule over time to avoid the rate
59 shock, that's another way to do the similar sort of thing.

60 COMMISSIONER POWELL: One of the other things
61 Hydro wants us to do, in addition to adopting the three
62 percent, they want the Board to acknowledge that it's
63 inadequate, and I guess my words, but they want us to
64 send a message to ... send a signal to the market with a
65 message that this is inadequate. How do you think the
66 panel, or how would you recommend to the panel to put the
67 appropriate signals or do you think that's appropriate?

68 DR. VILBERT: I think regulatory certainty is always a good
69 thing, as from the markets point of view, and particularly if
70 you have stock that you're ... that's going to react to
71 changes in the signals that the Board is sending. In this
72 case, for Hydro the only market that you're going to affect,
73 I suspect, is the bond rating agencies, and you've already
74 provided, the province already provides a debt guarantee.
75 I think that to the extent that you increase the amount of
76 equity in the Company, that will send a signal also that the
77 risk of the bonds of Hydro are going to be less in the future
78 than you have now. And perhaps you may get a decrease,
79 slight decrease in the interest rate you charge, are being
80 charged for your debt, but there's no signal to send to the
81 equity markets, that I see.

82 COMMISSIONER POWELL: Because of the loan
83 guarantee, basically takes care of the issue?

84 DR. VILBERT: To (inaudible) standard the loan guarantee
85 fee will go down as you signal that you're moving towards
86 a heavier equity ratio, but it's to the extent that it's
87 established by other means in the market, then that fee
88 wouldn't be affected.

89 COMMISSIONER POWELL: But this load guarantee fee is
90 determined by the shareholder, so it would be up to them
91 if they would lower it as their equity increased, would it
92 not?

93 DR. VILBERT: If that's the agency in charge of determining
94 the fee, then I suspect that's right.

95 COMMISSIONER POWELL: Thank you. Those are my
96 questions.

97 MR. NOSEWORTHY, CHAIRMAN: Thank you,
98 Commissioner Powell. Commissioner Sanders?

99 (11:45 a.m.)

1 COMMISSIONER SAUNDERS: I have no questions, Mr.
2 Chair. Thank you, Dr. Vilbert.

3 MR. NOSEWORTHY, CHAIRMAN: Thank you.
4 Commissioner Whelan?

5 COMMISSIONER WHELAN: No, I have no questions.
6 Thank you, Dr. Vilbert.

7 MR. NOSEWORTHY, CHAIRMAN: Dr. Vilbert, thank you
8 very much for your evidence. Certainly for a non-
9 accountant it requires some careful reading and scrutiny.
10 I don't have a ... I just have but one question, actually. I
11 guess in listening to Ms. McShane's it seems to me, again
12 from a fairly broad perspective, that what she would be
13 proposing would be to look at sort of an investor owned
14 utility with a view to establishing some financial principles
15 and parameters around that investor owned utility, looking
16 at cost of debt and cost of equity and then making some
17 adjustments after the fact for elements of financial and
18 business risk associated with a specific utility based on a
19 comparison to other models that might be in place. And I
20 realize that's a fairly simplistic description. There are other
21 elements of that, but I think for my purposes, in any event,
22 that's what I understand at this point in time. I think, in
23 looking at your approach to this after tax weighted cost of
24 capital, that indeed, you would be looking at that weighted
25 cost of capital would contain the sum, I think as indicated
26 in your evidence, the sum of the return on equity, the
27 payment of interest, the debt guarantee, and I think implicit
28 in that return on equity would be based on comparisons
29 that would be ... that you would use, although you haven't
30 used them necessarily here. That that return on equity
31 would indeed acknowledge financial and business risk as
32 opposed to making the adjustment after. In response to
33 Mr. Kennedy's question, I think he put it to you, well, if we
34 didn't accept this methodology fully what are some
35 intermediate steps, and I believe you said in response that
36 even if we didn't go with the ATWACC model that some
37 recognition of the return on equity is a function of
38 business and financial risk, and that we would adjust
39 accordingly. Those are my notes in the absence of a
40 transcript, in any event. Wouldn't that be ... wouldn't that
41 be there in both these models, Ms. McShane and yours in
42 that sort of acknowledgement?

43 DR. VILBERT: It should be. The recommendation, as I
44 understand it, from Ms. McShane, was that the appropriate
45 cost of equity for Hydro at 15 percent equity was 11.25
46 percent, and that that same rate of return on equity was
47 appropriate at 40 percent equity compounding. To me, that
48 means that she didn't adjust the rate of return for changes
49 in the financial risk as you increase the amount of equity in
50 the capital structure, so the first answer to your question is,
51 yes, we should both do that. For some reason, she elected
52 not to in this case, and that's what I was critiquing her

53 about in her evidence.

54 MR. NOSEWORTHY, CHAIRMAN: I understood,
55 somewhat that indeed she was making an adjustment for
56 financial and business risk in her model as well, so that the
57 recognition, to me, would be there in both, but I would be
58 subject to going back and sort of reviewing that testimony
59 again. I thought that was there in both models, it was just
60 applied in different ways.

61 DR. VILBERT: In fairness to Ms. McShane, she did say, I
62 believe, in the hearing, that what she believed was
63 changing was the debt guarantee fee and that she set up a
64 model in which the return on equity was constant and the
65 return on debt was constant, and the thing that was
66 varying, the capital structure changed, was the debt
67 guarantee fee, but to keep the return equity constant with
68 changes in capital structure ignores one aspect of financial
69 risk. It's true that the debt guarantee fee is likely to change
70 with capital structure if it were done on an actuarially fair
71 basis, which is to say estimated besides being set by the
72 shareholder, but it's not true, in my opinion, that the
73 returned equity, the appropriate risk adjusted return on
74 equity would be constant at 15 percent equity in a capital
75 structure and 40 percent equity in a capital structure.
76 Those two things just don't, they just don't work.

77 MR. NOSEWORTHY, CHAIRMAN: Thank you, Dr.
78 Vilbert. We'll move now to questions on matters arising
79 and ask Hydro, please, to begin?

80 MS. GREENE, Q.C.: Thank you, Mr. Chair. I have no
81 questions.

82 MR. NOSEWORTHY, CHAIRMAN: Thank you.
83 Newfoundland Power?

84 MS. BUTLER, Q.C.: No, Mr. Chair, no questions.

85 MR. NOSEWORTHY, CHAIRMAN: Consumer Advocate,
86 please, Mr. Fitzgerald?

87 MR. FITZGERALD: No questions, Mr. Chair.

88 MR. NOSEWORTHY, CHAIRMAN: Counsel, Mr.
89 Kennedy?

90 MR. KENNEDY: No questions, Mr. Chair, none.

91 MR. NOSEWORTHY, CHAIRMAN: Okay. Redirect, Mr.
92 Hutchings, please, any?

93 MR. HUTCHINGS: Just a couple of quick points, Mr.
94 Chair. Dr. Vilbert, in your discussion with Commissioner
95 Powell you were exploring some other ways of dealing with
96 the question of rate shock, and you raised the possibility
97 that one could publish the full rate, what I would call the
98 full rate, that is to say with an appropriate, shall we say,
99 return on equity now and move toward that over a period
100 of time. What would be required in this hearing if that

1 procedure were to be followed?

2 DR. VILBERT: Well, then you would open up the door to
3 all of the kind of things that we avoided by deciding that
4 three percent was all that was going to be asked, and so
5 you would have to then determine the risk of Hydro relative
6 to the benchmark sample companies and determine what
7 then the appropriate rate of return would be for the capital
8 structure that actually exists and so forth, so it would make
9 it messy again.

10 MR. HUTCHINGS: Okay. Just referring briefly to your last
11 discussion with the Chair. Is the effect of maintaining the
12 11.25 percent return on equity over the range of capital
13 structures from 15 to 40 percent illustrated anywhere in
14 your supplemental evidence?

15 DR. VILBERT: Yes, it is.

16 MR. HUTCHINGS: Can you point us to that?

17 DR. VILBERT: I think it's in my supplemental, using the
18 most recent example.

19 MR. HUTCHINGS: I was looking at **MJV-7** but I'm not sure
20 whether that's the one you had in mind.

21 DR. VILBERT: Yes, that's the one I'm pulling up. If you
22 look at ...

23 MR. HUTCHINGS: That's the working paper we have there.

24 DR. VILBERT: That's the work paper.

25 MR. HUTCHINGS: It's the previous page.

26 DR. VILBERT: One more.

27 MR. HUTCHINGS: One more back there.

28 DR. VILBERT: What I tried to illustrate here is the contrast
29 between the ATWACC method and the method Ms.
30 McShane adopted, which I interpreted to mean to leave the
31 BTWACC constant. Starting at the top, she recommends
32 that 40 percent equity, as I understand it now, 11.25 percent
33 rate of return on equity at 40 percent, and that comes up
34 with an ATWACC of about seven percent, a little over,
35 which as I comment, was really higher than even a utility
36 like Trans Alta that's in the process of deregulation so
37 that's quite high ATWACC just on a relative basis. Then
38 as you decrease the amount of equity in your capital
39 structure, keeping the return on equity cost in, you see that
40 the ATWACC is decreasing, and it gets down to five, nine,
41 six percent at the forecast 2002 capital structure of 15.27
42 percent equity. That's a little bit higher than my original
43 testimony because, as Ms. McShane has said in her
44 hearing, that she was allowing the debt guarantee fee to
45 change, and you'll see that the debt guarantee fee in
46 Column 7 goes from zero at 40 percent equity to 1.16
47 percent at 15.27 percent equity in order to keep the rate of

48 return on equity at 11.25 and the rate of return on debt at,
49 it's not on here, but at eight three ... oh, I'm sorry. Eight,
50 five, one, so ...

51 MR. HUTCHINGS: Keep the BTWACC constant, is that ...

52 DR. VILBERT: Yeah, that's BTWACC is constant in this
53 example. If you go to the ATWACC situation now
54 accepting for a moment that the 708 is the correct number,
55 you can see that a risk adjusted rate of return on equity
56 would have to go up pretty substantially, Column 4, as you
57 get to 15 percent equity ratio. The point is that the
58 compensation for equity on a risk adjusted basis should
59 really be, if you believe 708, should really be 19 percent at
60 15 percent equity as opposed to 11.25, so the effect of
61 financial risk is quite substantial. Of course, you can
62 reverse this process, and I think I've done that on **Exhibit**
63 **3**. Let me just check. If you look at **Exhibit 3** on my direct
64 or my written, this is the original five, eight, nine that was
65 inherent in her recommendation of 11.25 with a one percent
66 debt guarantee fee so that the cost of debt is eight, three,
67 five, and you'll see that as you increase the amount of
68 equity in the capital structure and you go to Column 4
69 you'll see that the return on equity, that adjustment for
70 financial risk goes from 11.25 requested down to eight, two,
71 seven at 40 percent, so again, the effect of financial
72 leverage, financial risk is substantial on the return on
73 equity. Now, I'm not arguing that five, eight, nine is the
74 right number, I'm just illustrating if you adjusted for
75 financial risk from her original recommendation the effect
76 on equity.

77 MR. HUTCHINGS: Okay, so from **Exhibit MJV-3**,
78 accepting the ATWACC principles, a return on equity of
79 11.25 percent at 15.27 percent equity is the equivalent of
80 8.27 percent at 40 percent equity?

81 DR. VILBERT: Yes, and if you look at the first column you
82 see that the ATWACC at five, eight, nine is constant
83 throughout. Now, the revenue requirement is the second
84 column, which is the BTWACC column, and note there that
85 the revenue requirement now as a function of the capital
86 structure, which is to say as you go to more equity, the
87 revenue requirement, instead of being an eight, six, six,
88 inherent in the original recommendation 11.25 goes down
89 to 7.6. That number multiplied times the rate base gives
90 you the interest and return on equity charge, and so by
91 increasing the amount of equity in the capital structure you
92 can reduce the revenue requirement that ratepayers would
93 have to pay.

94 MR. HUTCHINGS: Thank you, Dr. Vilbert. That's all I
95 have, Chair.

96 (12:00 noon)

97 MR. NOSEWORTHY, CHAIRMAN: Thank you, Mr.

1 Hutchings. That would conclude Dr. Vilbert's testimony.
2 Thank you, Dr. Vilbert, very much. It is 12:00. I'll ask the
3 Consumer Advocate now if he's in a position to introduce
4 Dr. Kalymon or would you prefer to wait until 2:00?

5 MR. FITZGERALD: Well, Mr. Chairman, we're encouraged
6 by the lightening speed that this witness has been dealt
7 with, but the effect of that is that it's compressed the time
8 that we have to prepare Dr. Kalymon, and that wouldn't be
9 a problem but there is updated information that ... Dr.
10 Kalymon has updated his data as of November 9th, and
11 this information hasn't been circulated to the parties yet, so
12 I thought it might be appropriate if we made copies of this
13 now, circulate it to the parties so they have an opportunity
14 to look at it over the lunch break and then commence at
15 2:00.

16 MR. NOSEWORTHY, CHAIRMAN: Fine.

17 MR. HUTCHINGS: Mr. Chair, if I might. There was the
18 footnote that Dr. Vilbert referred to. If we do wish to have
19 that marked we can do that and have it reproduced and
20 distributed. I think it was in response to a question from
21 Mr. Kennedy, so I would ...

22 MR. NOSEWORTHY, CHAIRMAN: That would be
23 appropriate.

24 MR. KENNEDY: In light of the fact the witness quoted
25 verbatim, perhaps we could put it in as an exhibit, and we'll
26 give it the initials of the witness at the time when it gets
27 distributed.

28 MR. HUTCHINGS: That's fine. We'll make those
29 arrangements.

30 MR. NOSEWORTHY, CHAIRMAN: Thank you. Mr.
31 Fitzgerald, do you have requisite copies of that?

32 MR. FITZGERALD: I was going to impose on the Board's
33 resources, perhaps, in a pinch here, just to get a couple of
34 copies for counsel.

35 MR. NOSEWORTHY, CHAIRMAN: Thank you. We'll
36 reconvene at 2:00.

37 *(break)*

38 *(2:00 p.m.)*

39 MR. NOSEWORTHY, CHAIRMAN: Good afternoon, Dr.
40 Kalymon. Before we get started I'll ask Counsel to address
41 preliminary matters, please.

42 MR. KENNEDY: Yes, Chair, one preliminary matter to my
43 matter which is I see that has been filed, the flip note
44 Exhibit that Dr. Vilbert referred to during his testimony and
45 for the purposes of the record we should enter that as an
46 Exhibit and it would be MJV No. 1, Chair.

47 **EXHIBIT MJV NO. 1 ENTERED**

48 There's also an Exhibit that's there for Dr. Kalymon but I'll
49 leave it to the Consumer Advocate during the cross to
50 actually enter that in at an appropriate time. With the
51 panel's indulgence, Chair, I'd also like to report on the
52 meeting between counsel that was conducted on Friday
53 afternoon just past, November 9th. There were a number of
54 items discussed. One such item was the ... there was an
55 attempt to try to change the order, if you will, of some of
56 the witnesses and to delay the commencement of the cost
57 of service experts. However, due to some scheduling
58 conflicts with the cost of service experts, that was unable
59 to be achieved. So the cost of service experts are, unless
60 the Board otherwise orders, in keeping with the Board's
61 previous order PU-18 to commence on November 26th.
62 And it is hoped, of course, that the cost of service experts
63 will take no more than the two weeks that have been
64 scheduled for that purpose, which would be the second
65 week commencing on December 3rd. However, on the off
66 chance that the cost of service experts spill into the third
67 week, I believe counsel have, or if they haven't, should
68 speak to their individual experts to ensure their availability
69 for at least the beginning of that third week which would be
70 the week commencing on December 10th to ensure that
71 they're present if that's what's required during cross-
72 examinations. So I guess that's a long winded way of
73 saying that everything remains the same as far as the cost
74 of service experts are concerned.

75 The second issue which I have in my notes which
76 was discussed was the appearance of Mr. Drazon
77 (phonetic) which is the expert witness for the Town of
78 Labrador City. In discussions with Mr. Hearn, he was
79 requesting that Mr. Drazon not testify until the completion
80 of Mr. Osmond's testimony. In keeping with the schedule,
81 as I just indicated for the cost of service, in anticipation
82 that, particularly now that Mr. Roberts may be finished
83 before we break next week, I'm at Wednesday, that we may
84 in actual fact start Mr. Osmond next week and that certainly
85 we would be able to complete him in the third week of
86 December after the cost of service. He should certainly be
87 finished his testimony before December 18th and therefore,
88 that was the date chosen for Mr. Drazon's appearance,
89 December 18th. And so, with the Board's indulgence,
90 request confirmation that that's appropriate, that Mr.
91 Drazon be given a particular date on which he knows that
92 he can appear and that that therefore can be communicated
93 to Mr. Hearn.

94 The third item I had was the actual sitting hours of
95 the panel. This has been discussed, as you're aware, a
96 couple of times previously with the panel and there's a
97 request by counsel for all parties that the Board consider
98 extending the sitting hours, and specifically a request for
99 an extension to 4:30 each day for the purposes of basically
100 just hearing more evidence in each day in an effort to speed

1 along the process. On that point, there's clearly
2 reservations as Board counsel, that I would advise the
3 Board to be cautious about extending its hours, for the sole
4 reason of fatigue and of being unable to absorb the
5 information that's being put forward to the Board through
6 the witnesses. And, also, that over the next two weeks, we
7 have an abbreviated week this week and an abbreviated
8 week next week and so whatever efficiencies might be
9 gained through that I think would be marginal and it might
10 be an issue better addressed for the purposes of the cost of
11 service experts, and then looked at again after the cost of
12 service experts are completed to see where we are in our
13 schedule. And, I guess, all counsel would look for some
14 direction from the panel in that regard concerning sitting
15 hours as well. And I believe that's all the items I had, Chair,
16 arising from that meeting that need to be discussed at this
17 time.

18 MR. NOSEWORTHY, CHAIRMAN: Thank you, Counsel.
19 I'll take those matters, I guess in particular, the focus would
20 be around the sitting hours, and I'll take that under
21 advisement and the panel will discuss it during the break
22 and I'll report back after the break. Is that satisfactory? Are
23 there any other items, Counsel?

24 MR. KENNEDY: No, Chair, that's all the preliminary matters
25 I have. I don't know if Hydro has reportings on
26 undertakings, quite possibly.

27 MR. NOSEWORTHY, CHAIRMAN: Okay, Ms. Greene.

28 MS. GREENE, Q.C.: Thank you, Mr. Chair. I do have a list
29 of undertakings from Friday to circulate at this time. Mr.
30 Chair, there were three undertakings provided on Friday.
31 The first related to the Letter of Understanding from the
32 Department of Works, Services and Transportation relating
33 to the VHF radio, and you will recall that was filed on
34 Friday in the afternoon. The second undertaking was a
35 request of Board counsel with respect to the cost
36 effectiveness of the satellite phone system and that also
37 was provided on Friday. The third undertaking was to
38 Commissioner Powell with respect to providing a revised
39 organizational chart to show the deletion of two directors'
40 positions in the production division, and those revised
41 charts will be filed in the next day or so. So those were the
42 three undertakings that were given on Friday.

43 I also have a document in relation to a previous
44 discussion and an undertaking and it relates to Mr. Hall's
45 testimony. At the time that he testified he was asked with
46 respect to the revised ... where the ROE outlook was for
47 2002 and when it would be ready. It was released on Friday
48 past by RBC Capital Markets and I have a copy of that
49 report dated November 9th, which we just received today,
50 this morning. I have copies to distribute at this time

51 As the copies are being distributed, I would like to

52 point out that page 11 is shown as a blank on this and this
53 is the way it was actually sent to us. So it's not an error,
54 there is nothing on page 11. And you go from page 10 to
55 the small print on the unnumbered page at the back.

56 And I guess this last document should be marked.

57 MR. KENNEDY: Yes, it would be U-Hydro. I don't know
58 the number, Counsel, yet, I'll just wait for the Board
59 Secretary to advise us what the next one is.

60 **EXHIBIT U-HYDRO NO. 24 ENTERED**

61 MS. GREENE, Q.C.: Thank you, Mr. Chair, that concludes
62 my preliminary points.

63 MR. NOSEWORTHY, CHAIRMAN: Thank you, Ms.
64 Greene. Mr. Fitzgerald, are you in a position to proceed
65 with Dr. Kalymon?

66 MR. FITZGERALD: Yes, Mr. Chair.

67 MR. NOSEWORTHY, CHAIRMAN: You are, okay. I'll ask
68 you, Mr. Fitzgerald to proceed with your direct examination,
69 please.

70 MR. FITZGERALD: Thank you, Mr. Chairperson. Dr.
71 Kalymon, on the 10th of August 2001, there was certain
72 pre-filed evidence filed in your name at this Board. Do you
73 adopt this evidence as yours?

74 DR. KALYMON: Yes, I do.

75 MR. FITZGERALD: And, recently, you have updated this
76 evidence in part as of November 9th. You adopt this
77 revision as yours as well?

78 DR. KALYMON: Yes, I do.

79 MR. FITZGERALD: Mr. Chairperson, I'd like to enter the
80 latest revision as a document, perhaps **BK No. 1**, which
81 represents a revision of the earlier pre-filed testimony.

82 **EXHIBIT BK NO. 1 ENTERED**

83 MR. FITZGERALD: Dr. Kalymon, turning to **BK No. 1**,
84 perhaps if you could, you could highlight the revisions
85 which have been made to your evidence of August 10th as
86 reflected in this document.

87 DR. KALYMON: Yes, this document reflects a number of
88 updates. I reviewed the conditions in the financial markets
89 and there are a number of facts that I would like to put on
90 the record first that led me to revise my page 13 of my
91 evidence and some of my recommendations. The first issue
92 that I'd like to highlight is that the current ten year Canada
93 bond rate is at 4.86 percent based on the trading yields
94 reported on November 9th. This compares to page 5, line
95 24 of my evidence which states that the bond rate was 5.70
96 percent at the time which is August the 1st. That was the
97 time of the preparation of my originally filed evidence. So,

1 the ten year Canada bond rate has come down quite
2 substantially since the time of the preparation of my
3 evidence. The second fact that I'd like to point out is the
4 Treasury Bill rate for Canada Treasury Bills of three months
5 is currently at 2.15 percent. This is, again, as of a report of
6 November 9th. This is compared to the 4 percent which
7 appeared in my evidence on page 6, line 15 which was the
8 prevailing rate as of August 1st. So, again, a very
9 substantial ... actually, I wouldn't call that substantial, I'd
10 call that a dramatic change in the condition of the short-
11 term interest rates.

12 The next piece of update would be related to the
13 trading yields on long-term Province of Newfoundland
14 Bonds, which were at 6.21 percent reported on November
15 9th, with a spread over Canada of 86 bases points. This
16 relates to the reported 6.71 percent for August 1st which is
17 recorded on my testimony on page 14 at line 5. These are
18 very long-term rates. These are close to, I think it's around
19 27 years. So it indicates that the long-term rates have also
20 come down, the longest rates have come down. The
21 medium term rates have come down substantially and then
22 in the short term, rates have come down the most. That's
23 basically what has happened since the preparation of my
24 evidence.

25 *(2:15 p.m.)*

26 I think the overall statement would be the cost of
27 money has definitely been reduced based on the entire
28 yield curve. This also relates to the short-term funds,
29 commercial paper three months. November 9th the rate is
30 at 2.22 percent. I referenced in my testimony at page 14,
31 line 19, the August 1st rate was 4.13 percent. So this would
32 be related to the short-term cost of debt. All of these
33 changes in particular, in particular the change in the 10 year
34 Canada Bond rate which I use as one of my central
35 indicators of the cost of equity capital based on the risk
36 premium approach, leads me to change my recommendation
37 and move it down to the 8-1/2 to 9 percent range for the
38 cost of equity capital. This, with a midpoint of 8.75 percent.
39 This compares to my previous recommendation for the cost
40 of equity capital which appeared on page 36, line 12 of my
41 evidence in which the recommended range of cost of equity
42 was 8.75 to 9.25 with a midpoint of 9 percent. Basically,
43 although the company is not requesting returns on equity
44 at this range, I believe that the indicated cost of equity is
45 relevant if the Board wishes to set limits on what might be
46 reasonable in the medium term if the company starts over
47 achieving its proposed target. And I'll say a little more on
48 that in my next update. So, based on the conditions in the
49 capital markets, I think equity money is less expensive
50 today than it was two months ago and I'm reflecting that in
51 my recommendation to move the recommended cost of
52 equity down from my previous recommendations.

53 A further update that is related, is that I reviewed
54 the revision as of October 31st by Mr. Roberts and
55 specifically I'm speaking of his schedule ... 10A, I guess is
56 the schedule and the revised October 31st testimony. In
57 that schedule, there appeared interest rates that would
58 pertain to the company's debt. And in that schedule there
59 were a couple of revisions, two revisions that related to
60 actuals for the year 2001. There were also two forecasted
61 rates which related to the year 2002. I believe that one of
62 those rates, the one that pertains to the long-term debt to
63 expire potentially is projected to be a 30 year issue and it's
64 stated under the revision as being at 6.66 percent. In the
65 light of the current trading rate for long-term Province of
66 Newfoundland Bonds, which would be the same cost
67 structure because of the guarantee for Newfoundland
68 Hydro, I think that number should be revised down to
69 about 6.21. There is no reason for a 45 bases point margin
70 in my view in that particular example.

71 The final update, revision, that I would like to
72 make is that as a result of the changed estimate by the
73 company of its debt and slight changes in its capital
74 structure, my calculations that appeared on page 13 needed
75 to be modified. The changes that I have just filed, I guess,
76 BK No. 1, that is my revised page 13 of my testimony which
77 basically is just a modification based on the following
78 changes. If you consider the issue of the funded debt, the
79 ratios that were originally filed by the company were
80 slightly revised from 83.18 to 83.38, so I have incorporated
81 that in my revision of page 13 for the percentage of funded
82 debt, relatively minor change. A more substantive change
83 is the company's projected cost of debt is lower for ...
84 instead of 7.345 as originally filed, it is 7.134 as per Mr.
85 Roberts' modified filing. So I have adjusted my calculations
86 accordingly. I have also changed the pre-funded but
87 because of the slight adjustment to the funded, the pre-
88 funded level is modified to the 23.38 showing on my BK
89 No. 1, relatively minor.

90 The other revision that I made on that chart is,
91 again, in capital structure, the funded equity under the
92 revised numbers of October 31st dropped from 15.27 to
93 15.07 and I have incorporated that into that table. The
94 guaranteed portion, a residual guaranteed portion is then
95 changed to 23.38. The other substantive change to page
96 13, table on 13, is the original midpoint target was 9 percent.
97 I have lowered that to 8.75 percent in light of the current
98 capital market recommendations on what an appropriate
99 cost of equity should look like for a company with this level
100 of business risk. That changes my overall ... sorry, that
101 also changes the fee number that appears under guaranteed
102 from 1.655 to 1.616. All of those changes imply that the
103 overall target return on rate base would drop from the 8.168
104 that I have in that table to 7.945 which appears in my
105 revised BK No. 1.

1 Again, I would point out that the company is not
2 applying for a level of 7.945, it's applying for a lower return
3 on a rate base. I think that the relevance of this number is
4 that I think at that level if the return on rate base starts to
5 approach that level or exceed that level, I think that would
6 be the upper range of I think what would be reasonable. I
7 do not have any information suggesting that this will be
8 achieved in the test year or in the subsequent year. But I
9 would suggest as a caution, that the Board consider this as
10 a reasonable upper limit of where the return on rate base
11 should ... might move before the Board wants to reconsider,
12 may want to reconsider the whole basis of the rates that are
13 currently being approved. This number also, just to put it
14 into context, there was discussion by Ms. McShane I think
15 in the record, that suggested numbers like 9 percent and
16 other ... or maybe no limit at all. I would object to that
17 strongly. I would suggest that there would be substantial
18 over earning at those sort of numbers and that a number
19 like 7.94 might serve as an upper bound on reasonableness,
20 even though I recognize that the company is only
21 requesting a lower return rate base for setting the rates as
22 of test year.

23 The only other revision that I would make is just
24 to point out that with the recalculated target return on rate
25 base, that number also influences my recommendations
26 which very specifically appear on page 36 of my evidence
27 at the end of my evidence on page ... sorry, page 36, line 13
28 where ... I guess there's two changes. One is on line 12
29 where my recommended provision of 8.75 to 9.25 should be
30 revised downward to 8.5 to 9.00 and on line 13, the number,
31 the target return of 8.168 should be lowered to the revised
32 level of 7.945. That is the substantive impact of these
33 modifications or updates in light of current capital
34 conditions and in light of the updated application by the
35 company. I think that is all.

36 MR. FITZGERALD: Thank you, Dr. Kalymon. Is that the
37 extent of your revisions?

38 DR. KALYMON: Yes, it is.

39 MR. FITZGERALD: Mr. Chairperson, before presenting Dr.
40 Kalymon for cross-examination, I'm wondering if he can be
41 given U-H No. 24 which has just been filed. That's the RBC
42 Capital Market document which may be useful to him.
43 Thank, you, Mr. Chair.

44 MR. NOSEWORTHY, CHAIRMAN: Thank you, Mr.
45 Fitzgerald. We'll proceed now with Hydro's cross-
46 examination, Ms. Greene, please.

47 MS. GREENE, Q.C.: Thank you, Mr. Chair. Dr. Kalymon,
48 on page 1 of your pre-filed evidence you stated that you
49 had appeared at a number of regulatory meetings in Canada
50 and I think the number stated there is 28, is that correct?

51 DR. KALYMON: I believe that's right, yes.

52 MS. GREENE, Q.C.: In looking at your resume that was
53 attached to the schedule. I noted that in those proceedings
54 you had appeared for regulatory boards at a number of
55 occasions, a significant number of occasions, is that
56 correct?

57 DR. KALYMON: Yes, that's correct.

58 MS. GREENE, Q.C.: I believe you've also appeared for the
59 Board of Commissioners here in Newfoundland with
60 respect to an application by Newfoundland Power in the
61 past, is that correct?

62 DR. KALYMON: On several occasions, yes.

63 MS. GREENE, Q.C.: And I believe you've also appeared for
64 the Consumer Advocate in the past here in Newfoundland
65 with respect to an application by Newfoundland Power, is
66 that correct?

67 DR. KALYMON: Yes, that is correct.

68 MS. GREENE, Q.C.: Have you appeared for utilities, making
69 an application as well in the past? That wasn't quite as
70 clear from your resume.

71 (2:30 p.m.)

72 DR. KALYMON: I have appeared for utilities. A number
73 of years back on a couple of occasions I appeared on
74 behalf of Alberta Government Telephone which is no more
75 Alberta Government Telephone but it was, I guess, a similar
76 ... in the similar context. It was Crown owned at the time
77 and I appeared on two occasions for AGT, as it was called
78 at the time, now a part of Telus. I also appeared for one of
79 the Ontario telephone companies, one of the smaller
80 Ontario telephone companies, on their behalf. But most of
81 my evidence, I think my broadest number of appearances
82 would have been on behalf of the Ontario Ministry of
83 Energy with regard to pipeline hearings. I have also
84 appeared on behalf of Interprovincial Pipelines at numerous
85 hearings but not as a cost of capital witness.

86 MS. GREENE, Q.C.: Do you see ... first, I should tell you,
87 there was an issue previously in this hearing with respect
88 to the ability of an expert to appear for different interests in
89 the same jurisdiction. Do you, from your perspective of an
90 expert witness, having appeared on behalf of regulatory
91 boards as well as utilities and consumer groups, see a
92 difficulty in an expert witness appearing for different parties
93 or interests, even in the same jurisdiction?

94 DR. KALYMON: It is extremely challenging and I think the
95 fact is that I have done it on numerous occasions because
96 ... well, because I believe that I am testifying to what I
97 believe is the cost of capital, and if that is accepted by my
98 client, then I don't think I have a problem. Having said that,

1 I guess I would add that as an expert witness, I like to pride
2 myself as being an expert and not bringing in my biases.
3 That's what I believe.

4 MS. GREENE, Q.C.: Turning now to Section 2 in your pre-
5 filed evidence which deals with the risk in capital structure.
6 I wanted to explore with you your opinion that you have
7 provided in this section on page 9. And I would ask you,
8 please, if you could read lines 14 to 17 of your pre-filed
9 evidence.

10 DR. KALYMON: "On balance of factors, it would be my
11 overall assessment that the business risks of Hydro are
12 similar to that of other electrical utilities such as New
13 Brunswick Power, Nova Scotia Power and Newfoundland
14 Power, which enjoy effective regulatory monopolies within
15 smaller and less diversified economies. The business risks
16 of electric utilities in Ontario and Alberta are substantially
17 higher due to the level of competition which is being
18 mandated in these markets."

19 MS. GREENE, Q.C.: So, with respect to your opinion on the
20 business risk Hydro faces, do I take it from your pre-filed
21 evidence, you view the risk of Hydro as similar to those
22 utilities you've listed on page 9 of your pre-filed evidence?

23 DR. KALYMON: It isn't a very precise science, but within
24 my judgment I would say similar, yes.

25 MS. GREENE, Q.C.: Turning to your recommendation with
26 respect to the capital structure for Hydro, if you could
27 please bring up page 11 of the pre-filed evidence. And
28 here, Dr. Kalymon, just to ensure that everyone
29 understands your opinion, I wonder if you could read in
30 lines 14 to 17 that's shown there on page 11, please.

31 DR. KALYMON: Line 14 reads, "Given that the provincial
32 guarantee is in place, it would be my recommendation to
33 the Board that the capital structure of Hydro be allowed to
34 gradually evolve over a number of years to the stand alone
35 level of 40 percent equity and 60 percent debt, which would
36 permit Hydro to achieve an investment grade rating on its
37 bonds."

38 MS. GREENE, Q.C.: And that, Dr. Kalymon, is the same
39 recommendation as Ms. McShane and Mr. Hall with respect
40 to the long-term capital structure target for Hydro?

41 DR. KALYMON: It is essentially the same. There is a
42 question of whether you include the no cost capital related
43 to benefits, but it's a relatively minor adjustment. I think
44 these levels of equity would be required to achieve
45 investment grade rating.

46 MS. GREENE, Q.C.: Looking at page 13, and I guess we
47 have to look at your revised page 13. You just referred to
48 one of the issues in your answer, the treatment of employee
49 benefits that's shown here under equity. That assumes,

50 does it, that the Board accepts Hydro's proposed treatment
51 for employee benefits that there be an accrual for those
52 benefits so that it would be pre-funded?

53 DR. KALYMON: I think the capital structure should be
54 consistent with the proper accounting treatment for such
55 benefits. I'm not testifying to the accounting treatment but
56 I believe this is the direction in which the treatment of
57 employee benefits is moving and I would support that.

58 MS. GREENE, Q.C.: So I take from your answer, you agree
59 with Hydro's proposal that it be an accrual basis for the
60 employee future benefits?

61 DR. KALYMON: I don't think I have reviewed the issue of
62 accrual of employee benefits. I believe that the accounting
63 treatment of what is considered liability should be
64 consistent with the accounting standards that are required
65 with this regard.

66 MS. GREENE, Q.C.: And if the Board were not to accept
67 Hydro's recommendation, then there would have to be an
68 adjustment to your table on page 13, is that correct, if it
69 were done on a cash basis as opposed to an accrual basis
70 which is what Hydro is proposing.

71 DR. KALYMON: I'm sorry, could you restate that
72 question? I think there was two different premises, I just
73 want to make sure I have them clear.

74 MS. GREENE, Q.C.: I was trying to understand the table on
75 page 13 because you'll see you've mentioned on line 21 that
76 the Board should restrict future rate base returns to the
77 level indicated. And I was trying to ensure that we all
78 understood the purpose of the assumptions or what the
79 assumptions were for the table. So going back then to the
80 issue of employee benefits first, the table that you have
81 included on your page 13 treats employee benefits on the
82 basis as proposed by Hydro, which is that they are pre-
83 funded because there's an accrual for them, is that correct?

84 DR. KALYMON: That is correct. I've taken the application
85 as being consistent with proper accounting treatment, yes.

86 MS. GREENE, Q.C.: And I was just saying, if for some
87 strange reason, the Board didn't accept Hydro's proposal,
88 which at this point I certainly can't foresee, that there
89 would have to be an adjustment in the table, because there
90 would be no pre-funded liability with respect to employee
91 benefits.

92 DR. KALYMON: If there were no pre-funded liability, then
93 it would need to be adjusted, yes.

94 MS. GREENE, Q.C.: With respect to your sentence that
95 begins on line 20, and I'd like to read the sentence. "While
96 this level of return exceeds that projected under the
97 proposed rate structure for the test year 2002, the Board
98 should restrict future rate base returns to the levels

1 indicated." And I wanted to explore that sentence with
2 you. I guess you've just agreed that if the treatment of
3 employee benefits is changed, then the table needs to be
4 changed. I would assume you would also agree that if the
5 Board, in its wisdom, determines that the ... and if it were an
6 issue for this hearing, that the appropriate rate of return
7 exceeded 8.75 percent in the table, also would need to be
8 changed as well.

9 MS. GREENE, Q.C.: Yes, of course. The target is set based
10 on the assumptions. If any of the assumptions were to be
11 modified, then clearly that needs modification.

12 MS. GREENE, Q.C.: I just wanted to make that point
13 because your sentence that I just read was very black and
14 white. If any of the assumptions in the table changes then,
15 of course, the total rate base return would have to be
16 adjusted as well in the future?

17 DR. KALYMON: Well, the statement is my
18 recommendation based on the present conditions and the
19 nature of the situation as presented to me. Clearly, the
20 Board may find different results in a variety of different
21 areas and I cannot forecast what the Board chooses to do
22 in any of these dimensions. I'm simply making my
23 recommendation based on what I see is a reasonable return
24 on rate base in the current capital market conditions.

25 DR. KALYMON: And if the assumptions underline the
26 table change, then the table would have to be revisited.

27 DR. KALYMON: Yes, I think that's a tautology almost,
28 yes.

29 MS. GREENE, Q.C.: In looking at your determination of
30 what the appropriate return on equity should be for Hydro,
31 it's correct to say that you applied the three same types of
32 tests as Ms. McShane did, is that correct; the risk premium
33 method, the comparable earnings and the discounted cash
34 flow approach?

35 DR. KALYMON: Well, I must suggest ...

36 MS. GREENE, Q.C.: You may have applied them differently,
37 but the test ...

38 DR. KALYMON: Well, I think the degree of deviation is so
39 substantive that almost it cannot be said that I used the
40 same tests. In particular, I would point out that one cannot
41 say that about the comparable earnings test because I even
42 qualify it to make sure that it's clear that I call it the
43 adjusted comparable earnings test which is a completely
44 different creature than the comparable earnings test which
45 was being applied by Ms. McShane. My comparable
46 earnings test adjusts for market to book ratios, which I
47 consider to be a prime reason why Ms. McShane obtains
48 results that are substantially different and higher, I would
49 say, than my own. So, in that one respect ... but I could

50 keep going, I think the points of difference are multiple.
51 Use of forecasts by analysts would be a prime example. So
52 I really would have a hard time accepting that I use the
53 same tests as Ms. McShane.

54 MS. GREENE, Q.C.: In terms of how regulatory boards
55 approach ... I'll try my question another way. Do they
56 normally approach with respect to the risk premium method,
57 the adjusted comparable earnings and the discounted cash
58 flow methods? Is that a traditional approach for most
59 Canadian jurisdictions, or in all Canadian jurisdictions?

60 DR. KALYMON: A traditional approach in ... I think, yes.
61 I mean the focus on the return on equity is certainly well
62 established in regulatory practice. The attempt to assess
63 what an appropriate return on equity is also very
64 traditional. I think many regulatory findings in recent years
65 have given much more weight to the risk premium test and
66 a linkage of returns to the bond rates. And unadjusted
67 comparable earnings have almost been universally rejected
68 or ignored in Board decisions. So I would agree that the
69 focus on return on equity is consistent with perhaps
70 regulatory practice and the use of various mechanisms like
71 risk premium tests and DCF approaches are very common.
72 I would say the use of unadjusted comparable earnings is
73 just not there any more in regulatory findings.

74 MS. GREENE, Q.C.: With respect to the ... I take it then
75 from your answer that while these are the three primary
76 methods that are used or have been used in the past,
77 obviously, there's a lot of judgment goes into the test
78 because we get experts coming up with different opinions
79 using the same type of test, is that a fair statement?

80 DR. KALYMON: Actually, no, your premise is ... again,
81 you repeated the premise that all three were being used.
82 And my point in my previous response was that the
83 comparable earnings test unadjusted for market to book
84 ratios has been found to be completely bias in its results.
85 It results in overstatement of the required returns by
86 investors. And even in Ms. McShane's testimony, she
87 accepts that it is not the cost of capital. And I believe that
88 it's quite clear that regulatory boards have the mandate to
89 establish the cost of capital to the degree that they are
90 setting returns on a fair basis. So, the comparable earnings
91 test which you said suggested in the premise was
92 accepted, is not accepted and it is nothing to do with how
93 you apply it. There is an inherent upward bias to that
94 approach which I explain technically in some of my
95 evidence, but I could explore further. So it is not simply
96 how you apply it. If you use a technique that's inherently
97 inconsistent with the principles of regulation, you can't
98 possibly reach a reasonable conclusion.

99 MS. GREENE, Q.C.: Let's exclude the comparable earnings
100 test. There are still other tests. Would experts applying

1 that same two tests, which you state are the two preferable
2 tests, always come up with the same answer on the
3 recommended return on equity for a company? I'm
4 speaking generally now, not with respect to Hydro.

5 (2:45 p.m.)

6 DR. KALYMON: The methods are not so completely well
7 determined that I could make that statement with absolute
8 confidence. However, the challenge to an analyst is to
9 apply several different tests until one starts to understand
10 what the nature ... what is happening. And some results
11 are patently and obviously inconsistent with market data.
12 When you see companies trading at substantial premiums
13 to book, and they are regulated companies, it is a very clear
14 signal to me that the results and the returns are excessive
15 and exceed the cost of capital. So I think there are some
16 very objective standards that can be applied. And it is not
17 simply an analyst's choice.

18 MS. GREENE, Q.C.: I guess you would agree that the cost
19 of capital is often an issue before regulators as to what is
20 the appropriate return on equity for any particular company
21 in a general rate application?

22 DR. KALYMON: I think this is an issue that is in front of
23 boards very often, yes.

24 MS. GREENE, Q.C.: And usually there are different
25 opinions put forward, whether it be from the perspective of
26 the consumer groups, or the utility, or the regulatory board
27 on the appropriate return on equity?

28 DR. KALYMON: There are different opinions expressed.
29 However, to suggest that the truth is completely arbitrary,
30 I disagree. I think there are some of the ...

31 MS. GREENE, Q.C.: I wasn't suggesting that, Dr. Kalymon.

32 DR. KALYMON: Okay. Well then, maybe I don't
33 understand the question. I think the question was whether
34 one can say unequivocally what the cost of capital is, and
35 the answer is within a range, yes. And if you come above
36 a range, then it is patently obvious that is wrong.

37 MS. GREENE, Q.C.: And the experts can even disagree
38 within that range you're talking about, is that correct?
39 That's why we have hearings where there is different
40 experts propose different opinions. I've actually read a
41 number of regulatory decisions in the last number of
42 months and I was quite taken by the fact that we have
43 different recommended rates of return depending on the
44 expert.

45 DR. KALYMON: The word expert can be applied to
46 somebody who understands the principles. And the
47 second issue is questions of bias. I think if you are simply
48 representing one side, it may introduce a bias that is
49 unsubstantiated by the facts of the case. And a bias, for

50 example, would be to suggest the comparable earnings
51 unadjusted for market is a reasonable test or reasonable
52 standard. It isn't. And it is obviously not the cost of
53 capital. So, I find, for example, an expert witness like Ms.
54 McShane using the pejorative bare bones cost of equity.
55 Well, what is the other, a full juicy steak? I'm not sure, but
56 it is not an expert witness speaking. Cost of equity is the
57 cost. You do not say the cost of an automobile is anything
58 but its cost, and the cost of equity is the cost of equity.
59 There is no such thing as bare bones. That is nonsense,
60 and we shouldn't be using pejoratives. If we were expert
61 witnesses we would simply talk about the costs.

62 MS. GREENE, Q.C.: In your answer I take it, and I may not
63 be reading you correctly, that you would not agree that
64 some of the people who have been accepted as expert
65 witnesses in this jurisdiction or others are expert in your
66 opinion?

67 DR. KALYMON: I do not question the expertise of
68 individuals. I have a concern about the issue of bias and
69 whether it is focused on the up side or not.

70 MS. GREENE, Q.C.: And given all of that, it is clear that
71 boards regularly receive different opinions from experts in
72 your view or experts in other people's views as to what the
73 appropriate return is even for the same company, the same
74 proceeding, isn't that correct?

75 DR. KALYMON: I think they do but it's obvious why,
76 because the purpose of the testimony and the approach
77 used. For example, the use of analysts' forecasts. There is
78 a substantial amount of information about analysts and
79 their boyishness in the past year or two about stocks and
80 stock prices and the reasons for it, because of their linkage
81 to investment banking and the underwriting activity, I'd be
82 very concerned about accepting that type of an expert
83 person as being unbiased. I think the issue is not expertise,
84 the issue is bias.

85 MS. GREENE, Q.C.: And that is a decision for the
86 regulatory board to make in any proceeding, whether it's a
87 general rate application or a court matter, isn't it?

88 DR. KALYMON: I presume so, yes.

89 MS. GREENE, Q.C.: In this particular application, you'll
90 agree that Hydro is not asking for what would be a normal
91 commercial return on equity?

92 DR. KALYMON: Yes, I agree with that.

93 MS. GREENE, Q.C.: And I assume you have no difficulty
94 in the sense of saying that 3 percent would be too high that
95 Hydro is asking for, for the return on equity, is that correct?

96 DR. KALYMON: Yes, I believe that 3 percent is below the
97 cost of equity capital if considered on the basis of a
98 commercial enterprise.

1 MS. GREENE, Q.C.: I think you were here this morning
2 when Ms. Butler questioned Dr. Gilbert and this question
3 is similar to that one. Would you agree also that it's not
4 necessary for the Board at this particular time to decide the
5 specific rate of return that would apply to Hydro if it were
6 seeking a commercial rate of return?

7 DR. KALYMON: I'm sorry, I lost my train of thought.
8 Would you mind repeating that, please?

9 MS. GREENE, Q.C.: And I'll rephrase it a different way.
10 Hopefully, it might be clearer.

11 DR. KALYMON: I just didn't catch it, I'll try again.

12 MS. GREENE, Q.C.: I've been told I speak quickly, so I'll
13 slow down. We've just established that Hydro is asking for
14 3 percent return on equity which is a ... you have agreed
15 that's lower ... it's the lower return than Hydro would be
16 entitled to if the normal principles applied and the company
17 were asking for a commercial rate of return, is that correct?

18 DR. KALYMON: Yes, I believe my evidence says that.

19 MS. GREENE, Q.C.: My question to you is would you also
20 agree that in light of that it is not necessary for the Board
21 to determine the specific rate of return that would only
22 apply in any event at this time in this current market when
23 Hydro is not asking for that normal commercial rate of
24 return.

25 DR. KALYMON: Well, that I disagree with. And the
26 reason I disagree with that is ... well, for several reasons.
27 The first reason as being ... I think I already tried to put on
28 record earlier, the 3 percent return is there in order to set
29 target rates. If Hydro does not come back to this Board for
30 an extended period of time, the actual achieved could be
31 substantially different than the requested. So, I think it is
32 important that at least a reasonable limit is set, that would
33 establish when a boundary is being crossed, and I would
34 suggest that the 7.945 is my recommendation for where that
35 boundary should be. If there are changes within that, then
36 I think it could be acceptable, but beyond that I think the
37 premise of the application should be looked at again. So,
38 I think in that respect it is relevant, although it is not
39 directly relevant to the setting of the rates that are being
40 proposed at 3 percent.

41 MS. GREENE, Q.C.: So your concern is with respect to a
42 cap on earnings. If ...

43 DR. KALYMON: If the rates are maintained and if
44 circumstances change with regards to cost structures, or
45 demand, or other factors that could result in different levels
46 of earnings, I notice in reviewing the performance, it's quite
47 volatile and it can vary and swing quite a lot from forecast.
48 I think this was also explored in cross-examination and
49 therefore, one should have some safeguards in that respect.

50 So, I disagree strongly with Ms. McShane's testimony that
51 says that the sky is the limit, let it roll. I think it should
52 have bounds and in that respect I think the number is
53 meaningful.

54 MS. GREENE, Q.C.: Dr. Kalymon, were you present when
55 it was determined that Hydro would have to reapply to the
56 Board for a rate change in 2004 because of major capital
57 coming on line?

58 DR. KALYMON: I understand that something in that
59 nature is being discussed or proposed. My concern would
60 be in the interim, number one. And number two, I do not
61 know how binding that particular commitment is. So in
62 either regard, I would presume the Board would want to
63 safeguard

64 the consumers in the interim and for the period until such
65 a re-review does in fact occur.

66 MS. GREENE, Q.C.: Mr. Chairman, that would be a
67 convenient time to break.

68 MR. NOSEWORTHY, CHAIRMAN: Thank you. We'll
69 break until ten after.

70 (break)

71 (3:15 p.m.)

72 MR. NOSEWORTHY, CHAIRMAN: Thank you, just
73 before we begin with Dr. Kalymon, again cross-
74 examination, there are a couple of items that I would like to
75 address which would have been raised by Mr. Kennedy at
76 the beginning of the afternoon in relation to the meeting of
77 counsel that occurred last Friday. Indeed there were a
78 number of issues, one being the cost of service, which
79 generally speaking, I think remains in place and to be frank
80 with you, I think we're generally speaking on, on schedule.
81 It may be that following Dr. Kalymon, Mr. Roberts and Mr.
82 Osmond would be the next two witnesses on the schedule
83 and it may very well be that we maybe looking at sometime
84 after the cost of service to complete, Mr. Osmond. That
85 may or may not be the case, that remains to be seen, but in
86 any event we are proceeding along with the schedule in
87 terms of cost of service and I think for reasons of timing
88 and indeed the scheduling of cost of service experts that,
89 that, I acknowledge that that remains in place and that's the
90 preference of all concerned. With a view to the second
91 item, it's a matter of, I think, trying to respond to the
92 request from Labrador City with regard to Dr. Drayson
93 (phonetic) and schedule a specific time. I understand that
94 December 18th was agreed upon as a day for Dr. Drayson
95 and that the Board would wish to confirm that. With a view
96 to, I guess, the main item here, which is indeed the
97 extension of the sitting hours, I believe the Board looked at
98 a number of areas in setting these days, and one certainly
99 is the fatigue factor, day in and day out. Somebody

1 mentioned this was a marathon not a sprint, and certainly
2 that's what it is. There's a consideration in respect of that,
3 I think, by all concerned. We've discussed this in detail.
4 Also there is to be some time set aside during the business
5 day, frankly, to deal with other issues that are outside the
6 hearing and I'm sure you have those in your law practices
7 as we do have here. The third being to allow some
8 personal time, I guess, for appointments. Quite frankly
9 during working days when we're relying on others for
10 various things, I've got a temporary cap that's been
11 decaying in my mouth for about three weeks now. I'd like
12 to at some point in time get to a dentist. Those factors,
13 quite frankly, remain intact today. I think, generally
14 speaking again we're on schedule and with a view to that
15 and also with a view to the abbreviated weeks, this week
16 and in particular next week, and looking at our own
17 schedule, we have come to the conclusion that we're not,
18 at this point in time, for that two week period certainly, in a
19 position to change the time of completion at the hearing
20 day at four o'clock. So that would remain in place. With a
21 view to the time, the weeks that have been set aside for the
22 cost of hearing (*sic*), we certainly are prepared to go to 4:30
23 and indeed 5 o'clock, if it's appropriate and needed on any
24 given day. We would also commit to revisiting after the
25 cost of service, with a view to any extension in the daily
26 sitting time that might be required at that, at that stage. So
27 that's essentially the decision that the Board has come up
28 with, and I trust that's satisfactory. If there are no ... Ms.
29 Greene looks like she has something to add.

30 MS. GREENE, Q.C.: Yes, it's not to do with the comments
31 that you just made but it is to do with the schedule, and
32 Mr. Kennedy did not refer to it when he was giving the
33 update on the meeting that occurred on Friday, probably
34 because no decision had been reached, but I really feel that
35 I should advise the Board of a potential issue with the
36 schedule and that relates to the capital budget. It's quite
37 clear right now that we are not going to get an order by the
38 end of the year arising from this hearing. I had raised the
39 issue with other counsel. We frankly have not resolved
40 that issue. Hydro's intent will be to ask the Board to deal
41 with the capital budget as a separate matter prior to year
42 end, and I do anticipate filing an application in that regard
43 and that may well affect the schedule that we've talked
44 about, and I really felt I had to give some notice to the
45 panel, even though Mr. Kennedy, hadn't mentioned it and
46 I appreciate why because we hadn't resolved it. Its still an
47 outstanding issue among counsel, but Hydro feels very
48 strongly about the status of the capital budget and we feel
49 we have no choice but to bring an application before the
50 Board, which I will be doing before the end of the week.

51 MR. NOSEWORTHY, CHAIRMAN: That's fine. We'll deal
52 with that then, Ms. Greene. Okay. Thank you very much
53 and we'll proceed now with Mr. Fitzgerald, if he could

54 continue please. Oh, I'm sorry, Ms. Greene, if you'd
55 continue please.

56 MS. GREENE, Q.C.: You forgot the last half hour. I am
57 finished, thank you, actually, Mr. Chair. I have no further
58 questions for Dr. Kalymon.

59 MR. NOSEWORTHY, CHAIRMAN: No, I didn't forget, it's
60 just this fatigue question (*laughter*). I'll move on to
61 Newfoundland Power, Ms. Butler, please for cross-
62 examination.

63 MS. BUTLER, Q.C.: Thank you, Mr. Chairman, and good
64 afternoon Dr. Kalymon. I too want to follow up a little bit
65 on the issue of business risks, and I note in your pre-filed
66 evidence, I don't think we need to actually look at a
67 particular page, but you do discuss the general economic
68 conditions which prevail before you make your
69 recommendation on a, an appropriate rate of return.

70 DR. KALYMON: Yes.

71 MS. BUTLER, Q.C.: Specifically, of course, you had
72 originally recommended a return on equity of 8.75 to 9.25 is
73 now 8.5 to 9.0. Can you tell me to the extent of your new
74 opinion, is, obviously you've re-addressed this ... what
75 change, if any, relates to the conditions worldwide and
76 events of September 11th.

77 DR. KALYMON: I think that September 11th has some
78 impact but the most direct influence on me, in terms of
79 changing my recommendation, was the fact that the 10-year
80 Canada Bond rates and, and the various other interest rates
81 have come down substantially from the time of the filing.
82 This means that very, very specifically the risk premium
83 test signals even lower required returns. Investors are
84 settling for much, much lower returns. Does, does
85 September 11th have any impact on that? I think the
86 answer is yes. I think September 11th has created, I mean,
87 it was, it's a disaster in its own right but economically it
88 created a slow down in the economy and because there's a
89 slow down in the economy there simply is not the demand
90 for capital, there is not the requirement and therefore
91 basically slow downs of the economy imply that the cost of
92 money is going to be decreasing and it has so it, it
93 definitely has that implication. The other impact of this, of
94 September 11th is what's known as the flight to safety. The
95 concept of moving your investments into safer investment,
96 into safer venues. So, one part of that is moving it into
97 bonds and another part is to move it into the lower risk part
98 of the equity spectrum, so that companies that are, that
99 enjoy monopolistic like positions are regulated, are more
100 attractive relative to where they were before. This is, this
101 is also a consequence of September 11th because of the,
102 the investor need for security. So all these things add up
103 to a lower cost of capital in the sense that investors freely
104 will put money in at much lower returns than they were

1 willing to settle for before that, in certain areas, like into
2 bonds and into low risk utilities. They will not put their
3 money into high risk equities.

4 MS. BUTLER, Q.C.: Thank you. Dr. Kalymon, relative to
5 the issue of business risk, you're obviously familiar with
6 the Rate Stabilization Plan which exists for Newfoundland
7 Hydro?

8 DR. KALYMON: Yes, I am.

9 MS. BUTLER, Q.C.: Because you refer to it at your, in **your**
10 **testimony pre-filed at page 8**, I wonder if we might look at
11 that Mr. O'Rielly, and this is the original testimony, of
12 course. Line 5, maybe if you could just read the first
13 sentence there, Dr. Kalymon, please.

14 DR. KALYMON: In terms of forecasting risk, Hydro
15 essentially avoids most of the short-term risks associated
16 with input fuel costs, water levels and demand levels
17 through the operation of the Rate Stabilization Program.

18 MS. BUTLER, Q.C.: Would it be correct to say, Dr.
19 Kalymon, that without the Rate Stabilization Plan, Hydro's
20 financial results could be significantly impacted by
21 variations in fuel costs, water levels, and demand volumes?

22 DR. KALYMON: It, it clearly depends on what, on what
23 replaces the Stabilization Program, so, but it can create
24 more volatility in returns. I mean, it's not all downside
25 because it could be upside. If you, if you forecast demand
26 on the low side then you'll actually achieve much better
27 results. If you forecast them on the high side, then you,
28 you'll suffer on the negative side, so it creates volatility,
29 but it doesn't necessarily change your ultimate
30 performance.

31 MS. BUTLER, Q.C.: Well, that assumes that it's replaced
32 with something?

33 DR. KALYMON: Well, even if it's replaced with nothing,
34 I was actually answering it in the context of just facing all
35 of the risks.

36 MS. BUTLER, Q.C.: Yeah, okay, well let's just assume for
37 the moment that it is replaced with nothing, that the Rate
38 Stabilization Plan, in my hypothetical situation, is actually
39 eliminated. Does that not make Hydro more risky?

40 DR. KALYMON: Well, I think you need all the premises
41 because it depends on what forecast levels are accepted.
42 Does that mean you have a margin for demand? Do you
43 have a margin for other aspects? It, it really does depend.
44 You can't answer that in the absolute, but, but roughly
45 speaking it does contribute to its stability of earnings, even
46 though, as I point out in my testimony, it, it creates
47 volatility in cash flow, but earning stability is more
48 important for an organization like this, than, than the cash
49 flow stability, so it would increase the risk to a certain

50 degree.

51 MS. BUTLER, Q.C.: Thank you. Now we've already heard
52 you say today in answer to one of Ms. Greene's questions,
53 and this was relevant to page 36 of your testimony, starting
54 at line 11 ... right. These are the figures that are now
55 changed, of course, from 8.75 to 9.25 to 8.5 to 9.0, but
56 you're referring to this band relative to the deemed equity
57 component of 40 percent. If the rate ...

58 DR. KALYMON: Correct.

59 MS. BUTLER, Q.C.: Yeah, if the Rate Stabilization Plan was
60 eliminated, would it impact your recommendation for a
61 return on equity?

62 DR. KALYMON: A lot depends on what exactly it is
63 replaced by. I mean, I have made, I have not made
64 alternative assumptions. It can move, one, towards the
65 higher rather than the lower end of the spectrum, for
66 example, but it really does depend a lot on what it is
67 replaced with.

68 MS. BUTLER, Q.C.: And if it's replaced with nothing?

69 DR. KALYMON: Well, it can't be replaced by, with nothing
70 because it has to do with how, how the forecasts are
71 treated, you know, is there margins in forecast, etcetera,
72 etcetera. So it can't be replaced by nothing. It has to be
73 replaced by something, but it would tend to increase the
74 risk.

75 MS. BUTLER, Q.C.: Okay, now are you familiar with Dr.
76 Bowman, who is the cost of service expert for the
77 Consumer Advocate?

78 DR. KALYMON: Yes, I am.

79 MS. BUTLER, Q.C.: And are you aware of his
80 recommendation on the Rate Stabilization Plan?

81 DR. KALYMON: Yes, I am aware that he is very concerned
82 about the operation of that Rate Stabilization Plan as it
83 affects rates and inter-generational fairness and other
84 dimensions of that, of that sort. I do want to point out that
85 if a rate, if the Rate Stabilization Plan becomes excessive, if
86 the size of it becomes excessive, it actually creates financial
87 risk rather than lowering financial risk, because if, for
88 example, you know, if it was operating within a \$50 million
89 limit, now it's to be operated with a \$100 million limit ... at
90 some point you run the risk of not being able to actually
91 recover all of those deferred costs, so the concept of the
92 Rate Stabilization Plan as lowering risk would be true if it
93 was a plus one year, negative another year and stabilized,
94 but if it is running one directional, then it actually can
95 create financial risk in its own right.

96 MS. BUTLER, Q.C.: Well, let's have a look at, specifically
97 at what it was that Mr. Bowman's pre-filed said on the point

1 and it was page 5, line 21. Thank you, starting with (c). He
2 specifically says, Dr. Kalymon, that the Board should
3 eliminate the Rate Stabilization Plan. Were you aware of
4 that?

5 DR. KALYMON: Well if I, if I read it correctly it, I think it
6 says right after the sentence, "the Board should eliminate
7 the Rate Stabilization Plan. The elimination of the RSP
8 should be gradual in order to spread the rate impact over
9 time".

10 MS. BUTLER, Q.C.: Oh yeah, no question, but he is, he is
11 recommending the elimination of the plan.

12 DR. KALYMON: He is, but the question is over what time
13 period and how, what is it to be replaced with? I'm not sure,
14 I think there is a concern that, that it is creating instability
15 because of the factors that Mr. Bowman is pointing out,
16 but how much additional risk will be caused, maybe it may
17 not cause a lot of risk if it in fact just keeps it moderate
18 instead of letting it soar to a very, very high level. It might
19 be unrecoverable.

20 MS. BUTLER, Q.C.: Well, let me ask you Dr. Kalymon, do
21 you agree with Mr. Bowman's recommendation at lines 21,
22 page 5 to line 2, page 6?

23 DR. KALYMON: Could I review that. I, I ...

24 MS. BUTLER, Q.C.: Oh, it's just the elimination of the Rate
25 Stabilization Plan over time.

26 DR. KALYMON: Sorry, on that page 5. Well I, I think I am
27 not really looking at the rate design issues in this case. I
28 have not spent a lot of time on it. I will testify that with
29 regard to cost of capital, if there is a complete and abrupt
30 elimination of a Rate Stabilization Plan, it can create
31 increased risks. In the present context, I have not been
32 asked, nor have I done a rate design review of this
33 company, so I'm not sure whether that is necessarily correct
34 or incorrect. I don't have a recommendation on it.

35 MS. BUTLER, Q.C.: Okay. Thank you, I guess though
36 what I need to ask you relative to this, if as you've
37 indicated I think fairly to me this afternoon, eliminating the
38 RSP would create greater risk, then would that in general
39 terms result in an increase in the appropriate return on
40 equity?

41 DR. KALYMON: I think I basically agreed with that
42 premise, except that I am concerned about the level of the
43 Rate Stabilization Plan. If it is too high then it may be
44 creating risk already, is a concern; and secondly, I'm not
45 sure what it's going to be replaced with, how it's going to
46 be phased out, and what the other mechanisms might be
47 brought to bear, but otherwise I agree.

48 MS. BUTLER, Q.C.: Thank you. The next issue I want to
49 address is actually the capital structure and again Ms.

50 Greene did ask you some questions about this point. In
51 your **pre-filed testimony, page 11**, lines 6-9, it is a sentence
52 there I believe that, I think Ms. Greene actually had you
53 read it. It's in reference to the business risks of hydro and
54 the capital structures of comparable electrical utilities.

55 DR. KALYMON: Yes.

56 MS. BUTLER, Q.C.: Okay. Now, I gather your
57 recommendation ... yes, you can see it there, line 15, is that
58 Hydro be allowed to gradually evolve over a number of
59 years to the stand alone level of 40 percent equity?

60 DR. KALYMON: Yes, if the mandate is to, is to move this
61 company to a market based stand alone type of a structure,
62 that is correct.

63 MS. BUTLER, Q.C.: And what is the time period when you
64 say at line 15, over a number of years?

65 DR. KALYMON: Well, to be very honest with you, I am
66 not concerned about the capital structure of Hydro as it is
67 today. It can stay that way for a long time and consumers
68 will never be negatively impacted. The reason I say that is
69 that with the provincial guarantee, I as a financial witness,
70 have no concern that, that there is going to be financial
71 instability in this company. Now the provincial guarantee
72 is not a standard commercial practice that you see in
73 privately owned utilities, however, I have absolutely no
74 concerns about the financial stability. In other words, if I
75 saw a privately owned utility with this capital structure, I
76 would say that one has to move in a panic because
77 consumers might never be served properly and because
78 there may be failure as we see in over-leveraged airline
79 industries who are suffering negative consequences, but
80 that is absolutely no concern of mine. I have no concerns
81 of that nature in this hearing and therefore the move, if the
82 province wishes to move this towards a stand alone
83 operation without the non-conventional form of support,
84 capital support, then I would suggest, recommend that the
85 40 percent level is something they should be moving
86 towards, but the time schedule is not, there is no urgency
87 on it because it is completely viable financially, from my
88 point of view, under the form of support that currently
89 exists.

90 MS. BUTLER, Q.C.: Well, again, thank you but regrettably,
91 I don't think you've answered my question. This is your
92 specific recommendation at line 14, to the Board that the
93 capital structure of Hydro be allowed to gradually evolve
94 over a number of years to the stand alone level of 40
95 percent. So my question, I guess, is what did you have in
96 your mind when you said "over a number of years"?

97 DR. KALYMON: Well, I think, I think if you read the whole
98 statement it says "allowed to gradually evolve". It does
99 not say forced to move to, it says "allowed". In other

1 words, the option is with the province, the owner of Hydro,
2 I, like I said, I do not believe the time is critical. I do not
3 have a specific time recommendation for you. I'm just
4 saying that if that transpired, then Hydro should be
5 permitted to do that because it would move it towards a
6 more stand alone type of an operation and if that is the
7 type of mandate that has been given, then that would be
8 my recommendation, but I do not have any number of years
9 that I specifically would be recommending because I'm not
10 concerned that this, that this company is not properly
11 supported by the capital structure and an unorthodoxed,
12 but still the capital structure is well supported and the
13 stability is there.

14 MS. BUTLER, Q.C.: Because of the guarantee?

15 DR. KALYMON: That is correct.

16 MS. BUTLER, Q.C.: But again, in an effort to be as helpful
17 as possible to this Board, who may very well accept your
18 recommendation as well as others to allow Hydro to
19 gradually evolve to 40/60 debt, I'm sorry, yeah 40 percent
20 equity, 60 percent debt ratio, can you be of any further
21 assistance in terms of what time period may be appropriate,
22 given their current debt equity ratio?

23 DR. KALYMON: The truth is that I can't, and the reason I
24 can't is for the reasons that I've just mentioned, it is not a
25 concern to me. I was asked to look at the capital structure
26 of this company to see whether it was appropriate, and
27 most of the time the issue on capital structure is the
28 financial viability of the operation. One never wants to
29 jeopardize the ability of a company to serve its customers.
30 So you want to make sure the capital structure is
31 appropriate so that they can always get the capital they
32 need to serve the customers. I don't have that concern
33 with the current situation, because it has a provincial
34 guarantee. If the owner chooses to infuse equity in an
35 indirect manner, then it's not a particular concern, but I say
36 allowed to move because I think it would not be contrary to
37 financial rationality to have that happen. The other part of
38 why I don't have a firm time schedule of any concern is that
39 my suggestion is that their returns allowed be such that
40 they effectively, if you like, deem such a structure
41 anyways, so if that's the case I become indifferent in terms
42 of the time schedule on which they're moving.

43 MS. BUTLER, Q.C.: And this is as a result of the dividend
44 that's being proposed for this, for the test year. Is that
45 what you mean when you say you're essentially saying
46 that they should deem a capital structure?

47 DR. KALYMON: No. I was, I was saying it with regard to
48 my exhibit 13, page 13, which is the core of my
49 recommendation on return on rate base. If you look at the
50 structure, the nature of the recommendation, it basically
51 deems a structure that is reasonable and allows a return

52 that's reasonable and then it offers flexibility on how the
53 province chooses to meet that. It would basically, if it
54 increases the equity component, there is adjustments, but
55 basically the overall return on rate base would not really
56 shift in any material way. So in that regard, there is no
57 concern on capital structure. In other contexts, the concern
58 over capital structure is that the consumer might be
59 overpaying because of a capital structure that is too rich in
60 equity, for example, as the usual concern and in this case I
61 don't have such a concern. Or on the other side instability,
62 if you don't have enough, but I'm not concerned about
63 either direction so the timing could be very flexible.

64 MS. BUTLER, Q.C.: Okay, but just, well one final time back
65 to page 11, Mr. O'Rielly, if I might, and your line 14 again,
66 given what you've told us this afternoon, Dr. Kalymon, and
67 you've mentioned several times that you have no concerns,
68 I wonder why you would bother to make a
69 recommendation?

70 DR. KALYMON: I think I was asked to look at what would,
71 would be required for this company to achieve a stand
72 alone commercial basis of operation, and if, if it is to evolve
73 to that type of an organization, then it will have to move
74 towards a more ... a higher equity component and, and limit
75 the debt percentage. And that is why I'm making that
76 recommendation that if that is the general goal, then that
77 should be the direction of movement.

78 MS. BUTLER, Q.C.: Okay, well I accept that you can't help
79 us with the reference there to number of years, but can I ask
80 you then relative to the recommendation that Hydro be
81 allowed to gradually evolve to that stand alone debt equity
82 ratio, you're clearly familiar with the dividend that's
83 proposed for the test year?

84 DR. KALYMON: Yes, I am.

85 MS. BUTLER, Q.C.: And will such a dividend support your
86 recommendation of gradually evolving over a number of
87 years to 60/40 debt equity ratio?

88 DR. KALYMON: No it will not, but it, it doesn't affect the
89 return. I'm concerned about the cost to consumers for one
90 part of this proceeding, which is the cost of capital, and
91 whether the province chooses to pay out the dividend or
92 not will not affect the amount of cost that it imposes from,
93 from the way I look at the situation and therefore, paying
94 yourself a dividend but guaranteeing the debt is really just
95 a, a matter of some, of image, if you like, but it is not
96 substantive. The province remains committed to guarantee
97 the debt which, in most context is viewed essentially like
98 pseudo-equity, if you put in debt, but you guarantee it,
99 that's pretty close to equity, it's a pseudo-equity, so you
100 know, you can look at the province having only 15 percent
101 on the books, or you can look at the province having 100
102 percent equity, because they guarantee the entire debt. So,

1 in other words, you know, if another organization fails, and
2 there's debt on the books, then the, the owner is not
3 responsible for the debt beyond what they've put into the
4 company, but if for example, you know just completely
5 theoretically, if Hydro completely failed, the province
6 would have to completely pay off the entire debt. So that's
7 actually a very, very substantial commitment that most
8 equity holders do not make, and therefore the, the real
9 economic capital structure of this company is actually a lot
10 higher than the observed equity component on the books.

11 MS. BUTLER, Q.C.: Dr. Kalymon, you do agree, however,
12 that the payment of the \$70 million dividend in the test year
13 is a backward step towards a recommended capital
14 structure of 40 percent equity, 60 percent debt?

15 DR. KALYMON: Yes, I do.

16 MS. BUTLER, Q.C.: And how does the payment of such a
17 dividend of that proposed for the test year compare to the
18 behaviour of a privately owned utility, or an IOU, as the
19 term has been used in this proceeding?

20 DR. KALYMON: A privately owned utility also has the
21 power to pay dividends within the limits of retained
22 earnings. The big difference between this case and a
23 privately owned utility is that that money is effectively
24 replaced by debt which is then guaranteed which, which is
25 almost like not paying yourself in the first place, because
26 you still have the liability, you still have the liability, if you
27 pull that 80 million out, but you effectively have to replace
28 it with something, it gets replaced with debt which is now
29 guaranteed, well you're still basically on the hook for that
30 80 million, you haven't really pulled the money out, which
31 is very different than a privately owned utility. If you
32 pulled 80 million out of a privately owned utility, that's 80
33 million less to cushion any risk problems that occur in the
34 company. That's not happening here. That's why I view
35 that only as an accounting issue and one of cosmetics, I
36 guess, is the word I was looking for earlier, but not
37 substantive. It isn't a true withdrawal of equity when you
38 guarantee that replacement money with your own
39 guarantee.

40 MS. BUTLER, Q.C.: But what I hear you saying, Dr.
41 Kalymon, is that there really is no comparison, in a sense
42 that an IOU would not pay out a \$70 million dividend in the
43 same circumstances, because it's not replacing it with debt
44 to be guaranteed by its shareholder?

45 DR. KALYMON: This is not the type of behaviour you
46 generally see in a privately owned utility because of
47 various other restrictions. There can be debt covenances,
48 there can be, it, well the main reason they usually don't do
49 it is because they like to keep the equity in to earn their
50 returns. That's usually the normal context of keeping
51 equity in so that they earn the returns that are allowed, but

52 that's another issue. I mean each company has its own
53 circumstances. I'm saying generically we are in a different
54 situation here.

55 MS. BUTLER, Q.C.: Maybe, but on the same page, line 4,
56 Dr. Kalymon, you've indicated that the revised mandate for
57 the regulation of Hydro requires that it be treated similarly
58 to a privately owned utility?

59 DR. KALYMON: It is to be treated similarly to a privately
60 owned utility and to me the most important aspect of that
61 is that the rates charged by the company reflect cost and
62 no more and no less. That's the main, or the most important
63 aspect of that, so if you, if there are returns allowed that are
64 within the economic range, then I think it, it would be
65 proper in saying that it was being treated that way. Now,
66 if a privately owned utility, let me make another point, if a
67 privately owned utility said I will guarantee all of the debt
68 of my company, then they, that is a viable strategy under
69 which you could actually reduce the nominal equity in the
70 company substantially, as long as the party providing the
71 guarantee is credit worthy, is credible and is not simply a
72 shell. So you can envision a capital structure that is of that
73 type, it's just that it doesn't occur because, it doesn't occur
74 because it actually is more equity in some ways than just
75 having a fixed amount at risk and not guaranteeing the
76 entire capital structure of the company.

77 MS. BUTLER, Q.C.: Dr. Kalymon, relevant to this revised
78 mandate for the regulation of Hydro, you say yourself
79 requires that it be treated similarly to an IOU, you're also
80 familiar with Hydro's social policy, because they are
81 referred to in your testimony as well.

82 DR. KALYMON: I am aware that there are issues
83 surrounding questions like cross-subsidization and other
84 dimensions, yes.

85 MS. BUTLER, Q.C.: Okay. You're aware of the deficit
86 which Hydro runs in the rural systems and that it is
87 approximately \$31.7 million?

88 DR. KALYMON: I have, I have heard that testimony. I've
89 reviewed that. I'm aware of it, yes.

90 MS. BUTLER, Q.C.: Okay, and that deficit is then collected
91 from other customers.

92 DR. KALYMON: Yes, that is my understanding.

93 MS. BUTLER, Q.C.: And Mr. Wells, in his testimony,
94 indicated that the decision to undertake that social policy
95 issue was one of government as shareholder, and not of
96 Hydro itself. I don't know if you were here for that
97 evidence, but do you accept that that was the direction of
98 the shareholder?

99 DR. KALYMON: I have, I was not here for Mr. Wells'
100 testimony. I believe that it's, that it's an explicit, I believe

1 that there is explicit legislation to the, with regards to the,
2 to the rural subsidy. That is my understanding, although
3 I have not reviewed that in detail, but that is my
4 understanding that that was a specific piece of legislation
5 that mandates that type of a rate design. Rate designs are
6 mandated by different levels. I participated in a cross-
7 Canada, the Trans Canada Pipeline hearings in which the,
8 the rates for Quebec were set, Quebec City were set at the
9 same rate as was charged in the Toronto, so that wasn't
10 legislated. It was a decision on rate design that was made
11 by the National Energy Board, so there are various
12 examples of this type of cross-subsidization, and I presume
13 this is another example of that.

14 MS. BUTLER, Q.C.: But relevant to the revised mandate for
15 the regulation of Hydro, are you familiar with any IOU that
16 undertakes such a significant social policy issue on behalf
17 of shareholders and recovers it from ratepayers?

18 DR. KALYMON: I'm sorry, could you repeat that question.
19 I want to understand it properly.

20 MS. BUTLER, Q.C.: Sure, and I'm tying it into line 4 of your
21 evidence there on the screen. Relative to the revised
22 mandate for the regulation of Hydro that it be treated
23 similarly to an IOU, are you familiar with any IOUs that
24 undertake such a significant social policy issue, that is as
25 our \$31 million deficit, on behalf of shareholders and
26 recovers it from customers?

27 DR. KALYMON: I guess the subtlety is on behalf of
28 shareholders. There are numerous examples of rate designs
29 that are not, quote, "fully exactly correct" in terms of cost
30 allocation and I'm familiar with the telephone company
31 situations that have persisted in the past. I'm very aware of
32 the, of the gas pipeline rates that exist and, and I'm sure I
33 can name a number of other examples, but I guess the issue
34 is whether because the government owns the Hydro,
35 whether they have the right to act as government
36 independently or that can be considered independent of
37 acting as a shareholder, I certainly have never come across
38 an example of where a shareholder chooses to implement a
39 policy for its own because, for its own benefit, but the
40 problem is there are two roles for the government, they own
41 the Hydro, they also have the mandate to determine social
42 policy for the province, so I guess I have a hard time
43 saying exactly who's making the decision. Is it the
44 shareholder or is it the government?

45 MS. BUTLER, Q.C.: Well, I guess we can take it up on the
46 screen if you wish, but I can tell you that Mr. Wells in his
47 testimony on September 24th, page 31, lines 48 and 49,
48 clearly indicated that the decision was one of the
49 shareholder. Page 31, Mr. O'Rielly.

50 DR. KALYMON: I can't speak to Mr. Wells' opinion, his
51 testimony will have to stand on its own merit. I wasn't here

52 for the, I don't know if it's in context, and I don't know what
53 his beliefs are.

54 MS. BUTLER, Q.C.: Mr. O'Reilly, page 31, lines 48 and 49.
55 There you go. If we can just go down to the bottom of the
56 left-hand column, Mr. O'Rielly, then I can get the question,
57 okay. Deep into line 44, "Do you agree that the
58 subsidization of the deficit which is incurred in some areas
59 by other customers is a matter of social policy directed to
60 you by government?". "Oh definitely, yeah, it's the
61 government that made that decision."

62 DR. KALYMON: Well, the government acting as a
63 legislative body presumably has the power to make that
64 decision. I guess the question is, is that the shareholder,
65 is that the government acting on its legislative mandate. I
66 don't see any, I don't see any contradiction with what I'm
67 saying to what Mr. Wells said.

68 MS. BUTLER, Q.C.: No, I don't see necessarily the
69 contradiction, but let me ask you this. Do you accept that
70 Hydro's behaviour in the pursuit of that social policy
71 objective is inconsistent with its desire to be treated as an
72 investor owned utility?

73 DR. KALYMON: Not necessarily so. Investor owned
74 utilities usually are only concerned about their investors
75 and their shareholders and to make sure that the bottom
76 line is correct. I mean, I'm over simplifying, but in essence
77 that's what, they are generally concerned about and the
78 question of rate design is, is a secondary issue which,
79 which I've seen, I've seen privately owned utilities basically
80 agreeing with various types of design policies that promote
81 social objectives, that aren't even legislated but are
82 sometimes mandated by boards or there's general
83 concurrence and the reason is that a private owned utility
84 doesn't have to necessarily resist unless it truly creates a
85 problem in terms of the functioning of the business or in
86 their ability to earn returns from a financial point of view.
87 And I'm not suggesting they don't have any social
88 conscience, I mean it could be that directly as well.

89 MS. BUTLER, Q.C.: Just to finish, Mr. Kalymon, an area
90 before we break, if I might. At page 15 of your testimony,
91 lines 5 to 7, we saw that you were recommending the return
92 on equity now 8.5 to 9 percent, that was for the test year?

93 DR. KALYMON: Yes, that is correct. The testimony is
94 basically designed for test year.

95 MS. BUTLER, Q.C.: Okay. And in the test year the debt
96 equity ratio, not the deemed capital structure, but the actual
97 debt equity ratio is forecast to be approximately 83/17?

98 DR. KALYMON: That is correct.

99 MS. BUTLER, Q.C.: Would your evidence be the same in
100 relation to the the recommended return on equity if the

1 capital structure were 40 percent equity, 60 percent debt?

2 DR. KALYMON: Well these, these returns are the returns
3 that are appropriate at that level of debt and equity. They
4 are not appropriate if the equity is only 15 percent. That's
5 why I go through a deeming process in my testimony
6 earlier and come out with an overall recommendation on
7 rate base which would be consistent with a reasonable
8 return to capital, but these quoted returns are only
9 appropriate if one is deeming or actually has approximately
10 that level of equity in the organization which I feel is
11 appropriate here, by the way, because of the guarantee.

12 MS. BUTLER, Q.C.: And the return on equity Hydro is
13 proposing in its test year is three percent?

14 DR. KALYMON: It is on a book basis, but I will, I will
15 remind the Board that the guarantee effectively increases
16 the equity component that is effectively in this
17 organization, to a much more substantial number.

18 MS. BUTLER, Q.C.: And that number is?

19 DR. KALYMON: I've, it is a viable organization and I'm
20 suggesting to you that it is, you can deem it as if had 40/60
21 because all the characteristics of a 40/60 are there. It has
22 viability in terms of being able to raise capital in the market,
23 it has a credit standing, etcetera, so the three percent is the
24 visible portion of the equity but the guarantee has an
25 imputed equity that is higher, that makes it higher.

26 MS. BUTLER, Q.C.: Dr. Kalymon, if the Board approved
27 your recommendation of a return on equity of what is now
28 8.75 percent, do you know how rates to consumers would
29 increase above that which Hydro is proposing in test year?

30 DR. KALYMON: I have not done that calculation but
31 clearly if it requires the six or seven percent increase at
32 three, then it has to be higher in, if one moved immediately
33 to full recovery.

34 MS. BUTLER, Q.C.: So that we're clear, as expert for the
35 Consumer Advocate in this hearing, you're advocating a
36 higher return on equity with the result that consumers
37 would actually pay more than what Hydro is seeking in this
38 application?

39 DR. KALYMON: No, I was asked by the Consumer
40 Advocate to assess what a fair and equitable return would
41 be if this organization were to be treated on a commercial
42 basis. I believe the term is "allowed to earn a fair and
43 equitable return". I don't believe there is a mandate to force
44 an applicant to ask for a fair and equitable return, but I was
45 asked to determine what is a fair and equitable return and
46 that is what I determined, but I'm not suggesting that if the
47 applicant did not apply for it that that is something that
48 should be forced.

49 MS. BUTLER, Q.C.: Thank you and Mr. Chairman, I'm at

50 the end of that section, so it'll be a good place to break
51 unless you wanted to go to 4:30 today.

52 MR. NOSEWORTHY, CHAIRMAN: No *(laughter)*. Thank
53 you.

54 MS. BUTLER, Q.C.: Thank you.

55 MR. NOSEWORTHY, CHAIRMAN: Thank you very much.
56 We'll conclude for the day and reconvene at 9:30.

57 *(hearing adjourned to November 14, 2001)*