



“When You Talk - We Listen!”



MANITOBA PUBLIC UTILITIES BOARD

Re: MANITOBA HYDRO  
2017/18 and 2018/19  
GENERAL RATE APPLICATION  
PUBLIC HEARING

Before Board Panel:

|                  |                     |
|------------------|---------------------|
| Robert Gabor     | - Board Chairperson |
| Marilyn Kapitany | - Vice-Chairperson  |
| Larry Ring, QC   | - Board Member      |
| Shawn McCutcheon | - Board Member      |
| Sharon McKay     | - Board Member      |
| Hugh Grant       | - Board Member      |

HELD AT:

Public Utilities Board  
400, 330 Portage Avenue  
Winnipeg, Manitoba  
January 16th, 2018  
Pages 4923 to 5176

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13 Katrine Dilay )

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15 William Gange ) GAC

16 Peter Miller )

17 David Cordingley (np) )

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19 Antoine Hacault ) MIPUG

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24 Corey Shefman (np) ) Manitoba Chiefs

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6 Daryl Ferguson (np) ) City of Winnipeg

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1 --- Upon commencing at 9:03 a.m.

2

3 THE CHAIRPERSON: Good morning,  
4 everyone. Ms. Steinfeld, do you want to take us  
5 through today.

6 MS. DAYNA STEINFELD: Thank you, Mr.  
7 Chair. Today we will be having cross-examination of  
8 the Consumers Coalition/MIPUG witness Morrison Park.  
9 We will be starting with the Green Action Centre,  
10 followed by Business Council of Manitoba.

11 We do have to break at 9:45, however,  
12 we would suggest that if the first two (2) Intervenors  
13 scheduled conclude prior to that time that we may be  
14 able to continue on and start the cross-examination by  
15 GSS/GSM and KAP.

16 After the break, which is from 9:45 to  
17 12:30 we will continue through with the rest of the  
18 cross-examination, including by Manitoba Hydro and  
19 Board counsel followed by any re-examination that is  
20 required.

21 Tomorrow we will continue with  
22 Consumer Coalition witness, Mr. Harper. Thank you.

23 THE CHAIRPERSON: Thank you. Mr.  
24 Gange...?

25 MR. WILLIAM GANGE: Thank you, sir.

1 COALITION/MIPUG PANEL:

2 PELINO COLAIACOVO, Previously Sworn

3

4 CROSS-EXAMINATION BY MR. WILLIAM GANGE:

5 MR. WILLIAM GANGE: Mr. Colaiacovo,  
6 I'm -- I'm over here. My name is Bill Gange and I  
7 appear on behalf of the Green Action Centre. I have a  
8 few questions, not a great deal, but a few for you.

9 Sir, you appeared as an independent  
10 expert at -- at the Needs For and Alternatives To  
11 hearing; is that correct, sir?

12 MR. PELINO COLAIACOVO: Yes.

13 MR. WILLIAM GANGE: And you did an  
14 analysis of the various options that were open to  
15 Manitoba Hydro at the time and ran projections with  
16 respect to the effect that different proposals would  
17 have and at different rate increases.

18 Is that correct, sir?

19 MR. PELINO COLAIACOVO: So in the  
20 financial modelling that we did -- given that the --  
21 the different characteristics of all of the different  
22 plans and the different economic scenarios and energy  
23 scenarios and -- and capital spending scenarios and so  
24 on, we had to come up with a way to have a common  
25 baseline so that we could distinguish between the

1 effects of all of these different plans.

2                   And the common baseline that we chose  
3 was that rates should never go up or down by more than  
4 twice the rate of inflation. And -- and so that was  
5 the -- the mechanism or tool through which we -- we  
6 tried to show the differences between the choices that  
7 -- that were available to Manitoba Hydro at the time.  
8 And that -- that constraint effectively allowed us to  
9 identify conditions where the Company would be in  
10 trouble or conditions where ratepayers would benefit  
11 because reductions would be possible.

12                   But we almost never allowed rates to  
13 change by more than twice the rate of inflation,  
14 except in a couple of specific instances where we did  
15 some extra analysis and that was more in the -- the  
16 second phase of the report from May of 2014 where we  
17 actually looked at rate increases of 5 percent instead  
18 of double the rate of inflation.

19                   But -- so we didn't -- other than  
20 putting that constraint on rates, we allowed rates to  
21 float as long as they never changed by more than  
22 double the rate of inflation.

23                   MR. WILLIAM GANGE:    And your assumed  
24 rate of inflation was 2 percent, was it?

25                   MR. PELINO COLAIACOVO:   Well, at -- in



1 the first set of modelling that we did it was actually  
2 1.9 percent, because that was the reference scenario  
3 for Manitoba Hydro's NFAT analysis.

4 And then in the second phase, they had  
5 actually adjusted it from 1.9 to 2.

6 MR. WILLIAM GANGE: Right, and I have  
7 the May 2014 review of the updated Manitoba Hydro  
8 plans and at that point you are running projections at  
9 3.8 percent and 4 percent; correct, sir?

10 MR. PELINO COLAIACOVO: That's  
11 correct. Yeah because in the -- in the first round  
12 it was 1.9 so 3.8 was the constraint, and then in the  
13 second round they had adjusted in their estimated  
14 inflation rate from 1.9 to 2 which would be four (4)  
15 but in order to do comparisons from the analysis we  
16 had done in the first round to the second round, we  
17 ran it both ways at 3.8 and 4 which even though the  
18 difference is small, you -- you would think the  
19 difference between 3.8 percent and 4 percent is small,  
20 we were looking at time horizons of forty-eight (48)  
21 years and so that small difference actually could have  
22 a fairly significant impact over the forty-eight (48)  
23 year period.

24 MR. WILLIAM GANGE: And, sir, in the  
25 May 2014 update you were considering the effect of

1 drought on the equity ratio; correct, sir?

2 MR. PELINO COLAIACOVO: Amongst many  
3 other analysis but, yes, we did -- we did look at  
4 equity ratio.

5 MR. WILLIAM GANGE: Yes. And -- and  
6 in that analysis the debt equity ratio was going to  
7 drop fairly significantly, down to, well, 7.5 percent,  
8 or somewhere around there?

9 MR. PELINO COLAIACOVO: Yeah and so  
10 this particular graphic that you're showing here,  
11 figure 2 -- figure 21, is, as it says there, a  
12 challenging hydrology scenario, i.e., drought with  
13 reference economics, energy and capital.

14 And what's depicted are five (5) -- or  
15 six (6) different preferred development plans. And --  
16 and you can see that some of the plans have equity  
17 ratios that drop more and recover -- and recover more  
18 slowly or vice versa. I mean, the -- the whole  
19 purpose of NFAT was to compare different options. So,  
20 you know, none of these actually describe the current  
21 scenario because things have changed again.

22 MR. WILLIAM GANGE: Right.

23 MR. PELINO COLAIACOVO: But -- but at  
24 that time it was a comparison of the different  
25 options.

1 MR. WILLIAM GANGE: Right. And -- and  
2 at the time, one (1) of the things that you were  
3 concerned about was the effect of drought --

4 MR. PELINO COLAIACOVO: Yes.

5 MR. WILLIAM GANGE: -- that might have  
6 on the debt/equity ratio. And although you didn't go  
7 into in significant detail cost overruns, but you were  
8 assuming that the numbers -- the values that were  
9 being provided for the final cost were -- were -- were  
10 the correct values?

11 MR. PELINO COLAIACOVO: We actually  
12 did run sensitivities on cost overruns.

13 MR. WILLIAM GANGE: Yes.

14 MR. PELINO COLAIACOVO: At -- at the  
15 time, Manitoba Hydro claimed a high degree of  
16 confidence in their budgets and schedules, and  
17 suggested fairly modest worst-case scenarios.

18 We actually ran scenarios that were  
19 much worse than the scenarios that Manitoba Hydro had  
20 included in there NFAT analysis. So we did test those  
21 in -- in addition to their sort of base case  
22 scenarios.

23 MR. WILLIAM GANGE: Right. And from  
24 my reading of -- of the report, you don't come to a  
25 conclusion that, no, this is -- this is undoable and

1 -- unless you raise rates to a level of -- of 8  
2 percent per year?

3 MR. PELINO COLAIACOVO: So our  
4 recommendation in both the first and second reports  
5 that we did which were January and May, if I remember  
6 correctly, of 2014 was that the preferred development  
7 plan which included Conawapa was not the best option.  
8 And the conclusion that we came to was that either the  
9 plan which continue -- which -- which included  
10 continuing the Keeyask project, or the All Gas Plan  
11 were close enough from an economic and financial  
12 perspective that it would not be advisable to  
13 recommend stopping Keeyask, right, was -- was how we  
14 very carefully put it.

15 The -- so the emphasis that we had was  
16 really on the preferred development plan, and whether  
17 it made sense given the circumstances at the time to  
18 choose to proceed with expenditures on Conawapa. And  
19 our view was that it did not.

20 MR. WILLIAM GANGE: Right. And -- and  
21 one (1) of the conclusions that you came to with  
22 respect to just proceeding with Keeyask in comparing  
23 it to the All Gas Plan was that -- that -- that there  
24 was a significant difference between the economic  
25 benefit of the All Gas Plan versus the economic

1 benefit of Keeyask; is that correct, sir?

2 MR. PELINO COLAIACOVO: Just -- I want  
3 to be careful here. So -- so we were testing it  
4 against the baseline of never more than two (2) times  
5 the rate of inflation rate increases, which as you --  
6 as you noted earlier was either 3.8 or 4 percent.

7 And with that constraint, we said that  
8 comparing Keeyask plans with All Gas Plans, there was  
9 not a significant difference between the two (2).  
10 Hence, we did not object to continuing with Keeyask  
11 and --

12 MR. WILLIAM GANGE: Okay, thank you.  
13 Sir, during your testimony yesterday, you -- you made  
14 mention of the fact that one (1) of the things that  
15 has affected the -- the -- the analysis of the  
16 debt/equity ratio is the change from -- in accounting  
17 practices?

18 MR. PELINO COLAIACOVO: Correct.

19 MR. WILLIAM GANGE: Can -- can you say  
20 -- is -- is this possible and -- and -- and I'm asking  
21 this completely out of ignorance so -- so I'm not  
22 pretending anything here, but just if -- if you were  
23 using the old standard versus the -- the current  
24 standard, can you say what the difference is between  
25 the -- the equity ratio just right off -- off the bat?

1 Is there -- in other words, is there a bias that can  
2 be quantified between those two (2) standards?

3 MR. PELINO COLAIACOVO: Yesterday as  
4 an appendix to my presentation I provided a small  
5 Excel spreadsheet which actually talks about exactly  
6 that issue. The approximate estimate depending on the  
7 year is 2 to 3 percent is the -- the difference that I  
8 calculated.

9 MR. WILLIAM GANGE: Two to 3 percent  
10 down?

11 MR. PELINO COLAIACOVO: It's 2 -- 2 to  
12 3 -- so debt appear -- the debt ratio appears to be 2  
13 to 3 percent higher under the new accounting standards  
14 than it would have under the old accounting standard.

15 MR. WILLIAM GANGE: Thank you. Sir,  
16 if we can go to your presentation from yesterday,  
17 which I believe is Coalition 45. And we look at -- at  
18 slide 7.

19 You make mention of the fact that --  
20 that Manitoba Hydro it's -- that it's important that  
21 it manages the message to capital markets but that  
22 Manitoba Hydro's proposed rate is not a balanced  
23 response.

24 With that in mind, sir, what would be,  
25 in your view, the appropriate targets and guidelines

1 for rate increases for starting off with the next  
2 year? Can -- can you -- can you advise the Board on  
3 what you think would be an appropriate target?

4 DR. BYRON WILLIAMS: Mr. Gange, I'm  
5 happy to have this witness answer this question, but  
6 if you can just make clear, are you asking the witness  
7 to assume that Hydro's expenditures and forecasts are  
8 reasonable?

9 MR. WILLIAM GANGE: Yes, yes.

10 MR. PELINO COLAIACOVO: So the -- the  
11 issues that I was asked to address, that I'm confident  
12 to address, have to do with the potential response of  
13 capital markets to the decisions of the Board. Also,  
14 you know, at the level -- all of my analysis occurs at  
15 the level of revenue requirement, not at the level of  
16 individual customer rates which require a cost of  
17 service model and a whole bunch of other analysis.

18 So, at the level of revenue requirement  
19 on a wholesale basis, you know, is 7.9 percent  
20 increase in revenue requirement required? No, I don't  
21 believe it is required.

22 One (1) of the things I talk about is  
23 hydrological risk. There is a lot of hydrological  
24 risk that Manitoba Hydro faces and because of that  
25 hydrological risk, it's important that there be some

1 reserves. There -- it's important that there be some  
2 flexibility to manage this hydrological risk.

3           So, I am by no means suggesting in my  
4 presentation that -- that's not a real issue that has  
5 to be taken into account. But I do point out that  
6 some other Utilities apply rules. They -- they --  
7 they choose some sort of a rule to help guide their  
8 rate-making process.

9           In the case of Bonneville Power, they  
10 have a very clearly stated rule that -- that looks at  
11 a two (2) year time horizon, and looks at a range of  
12 hydrological scenarios. And they say, you know, We  
13 have to be able to manage 95 percent of the  
14 hydrological scenarios for the next two (2) years, and  
15 we need reserves that are at that level. And that's  
16 perhaps a good rule, perhaps not a good rule, but it's  
17 a rule that helps guide rate-making. And I would  
18 suggest that having a rule of some kind would help  
19 guide rate-making and allow you to make the kind of  
20 determination that I think you would like me to offer.

21           But, you know, do you -- do you choose  
22 3 percent? Do you choose 3.5 percent? Do you choose  
23 4 percent or 4.5 percent? How do you make that  
24 distinction between relatively small increments of  
25 percentage increases without the guidance of some kind



1 of rule, right? The -- the benefit of a rule is that  
2 it points you in a direction, and, you know, it -- if  
3 you -- to my mind, the real challenge is selecting a  
4 rule, having some good reasons to select a rule that  
5 are -- a rule that will be balanced and fair in its --  
6 in its effects. And if you select the rule, and the  
7 rule -- and you -- you apply that rule, and it leads  
8 you to three point five (3.5), or it leads you to  
9 three point seven (3.7), or it leads you to four (4),  
10 or four point two (4.2), well, then, that's a balanced  
11 and fair outcome because it's the application of a  
12 rule that you decided on.

13                   I think part of the challenge that you  
14 face here in Manitoba is, you don't have those rules  
15 enunciated. So it's -- it makes it much more  
16 challenging on a -- a two (2) year basis to, you know,  
17 to come up with a -- a number that is a relatively  
18 small increment different.

19                   You know, you're -- at -- your interim  
20 ruling was 3.36 percent. Do you choose that again?  
21 Do you choose three point seven (3.7)? Do you choose  
22 three point nine (3.9)? How do you choose? And, you  
23 know, if -- if you adopted a kind of a rule, then it  
24 would it -- would be much easier to make that  
25 determination.

1                   So to me, asking what should be our  
2 rate increase is almost, in a sense, the wrong  
3 question. And I think the question you should be  
4 asking is: What should be the rule that we apply to  
5 the circumstances in order to figure out what our rate  
6 increase should be?

7

8 CONTINUED BY MR. WILLIAM GANGE:

9                   MR. WILLIAM GANGE: Okay. And given  
10 that -- that Manitoba Hydro's capacity is -- is so  
11 water-dependent, what recommendation are you making to  
12 the Board to be able to safeguard against that -- that  
13 the risk of drought?

14                   MR. PELINO COLAIACOVO: Right. And --  
15 and so one (1) of the things that I suggested in the  
16 presentation, I also suggested in the report that I  
17 provided previously to the Board is that you -- you  
18 look -- well, in fact, you have looked in the past at  
19 five (5) year droughts, at seven (7) year droughts.  
20 You have looked at those risks. Manitoba Hydro has  
21 provided any number of calculations about the  
22 potential impact of a five (5) year drought, or a  
23 seven (7) year drought. In fact, you have that data,  
24 because they -- it's been provided to you.

25                   But as best as I can tell, you have not

1 used a -- a formula based on the data. There -- there  
2 is no sort of clear enunciation of a rule that says,  
3 We need to have rates that are sufficient so that our  
4 financial reserves will last through a drought for the  
5 next five (5) years, or the next seven years, or --  
6 or, you know, whatever -- whichever choice you choose to  
7 make.

8 I would suggest because you have a  
9 history of looking at five (5) and seven (7) year  
10 droughts, that you may choose to -- to use one (1) of  
11 those time horizons. And -- and so you would ask  
12 yourself, in -- in a very challenging drought  
13 scenario, a five (5) or a seven (7) year drought, if  
14 our rates were 'X' percent over that seven (7) years,  
15 would the Company continue to be self-supporting,  
16 perceived as self-supporting through that entire  
17 period?

18 And if the rates are high enough, well,  
19 then, that helps guide you to a -- a decision that  
20 those rates are sufficient. Then, you would also ask  
21 yourself, if water was at more typical levels over  
22 that period, over that five (5) or seven (7) year  
23 period, what would be the effect? Would it be --  
24 would we be making progress on our financial targets  
25 more broadly? Would be -- we be repaying capital?

1 Right?

2                   So the rule doesn't have to be overly  
3 simple. It can be quite sophisticated. It can be  
4 multilayered. But you -- you would look at what  
5 happens during difficult scenarios, what happens  
6 during typical scenarios, what happens during, you  
7 know, high water scenarios, because the reality is,  
8 for the past twenty 20 years, Manitoba has been  
9 benefitting from relatively high water levels as  
10 compared to historical averages.

11                   So, you know, you always want to make  
12 sure that in a challenging scenario, you have enough  
13 reserves, but you also want to pay attention to what  
14 happens when water is at typical levels and -- and --  
15 and that -- that kind of an analysis, I think, would  
16 guide you to making a rate decision.

17                   MR. WILLIAM GANGE: If we could go to  
18 slide 33. Sir, at the -- at the bottom of slide 33,  
19 you've -- you have the last bullet which says:

20                   "For public power utilities, one  
21 point five (1.5) to two (2) times  
22 interest coverage is consistent with  
23 an 'A' rating, while for investor-  
24 owned utilities, it would be a sub-  
25 investment grade of 'B'."

1                   Is that -- that formula of one point  
2 five (1.5) to two point zero (2.0) interest coverage,  
3 is that also something that you would establish as a  
4 rule or recommend to the Board to establish as a rule  
5 when -- when considering these issues?

6                   MR. PELINO COLAIACOVO:     So interest  
7 coverage will rise and fall, depending on performance.  
8 I think when -- when Moody's is doing their analysis  
9 of a company, they're looking at three (3) to five (5)  
10 years in history. And they'll say, Have you achieved  
11 this target metric in the last three (3) to five (5)  
12 years on average, and is your rate design such that  
13 you will likely hit this metric in the next three (3)  
14 to five (5) years?

15                   It's not that you would necessarily --  
16 your rates would lead you to achieve that target every  
17 single year, because water can fluctuate, you know, up  
18 or down by 20 percent in any given year, but it -- you  
19 know, over a medium-term period of three (3) to five  
20 (5) years, your rates, you know, your rate design  
21 should lead to results that average in -- in those  
22 areas.

23                   And I think the point -- rhe point of  
24 this slide was, you know, one (1) of our -- one (1) of  
25 our jobs was to comment on the targets and the

1 interest coverage target that Manitoba has and has had  
2 for quite some time. Well, actually not -- not for  
3 quite some time in this instance, but the interest  
4 coverage target that they've established at one point  
5 eight (1.8) on an EBITDA to interest basis is  
6 reasonable because it's consistent with targets that  
7 public power utilities in the United States use, and -  
8 - and one point five (1.5) to two (2) times, as  
9 Moody's recognizes is a reasonable target for a -- a  
10 public power utility. And so that -- the point of the  
11 slide, really is just to say that.

12 MR. WILLIAM GANGE: Okay. Thank you.  
13 If we could go to slide 14. In -- on this slide, sir,  
14 you talked about financial treatment, and that there  
15 are many options for payment of capital cost. And you  
16 make the reference at these -- that this can be done  
17 faster or slower.

18 In -- in looking at this, part -- lower  
19 total costs, and lower long-term rates, and lower  
20 financial risk, aren't those all desirable outcomes?

21 MR. PELINO COLAIACOVO: I'm sorry --

22 MR. WILLIAM GANGE: Well, if -- if the  
23 payment is made faster, you reach the -- the -- you --  
24 you reach the lower total cost more quickly, correct,  
25 sir?

1                   MR. PELINO COLAIACOVO:    So, in  
2 financial analysis, you have to make a distinction  
3 between at least three (3) different kinds of  
4 calculations. One (1) is nominal dollars, one (1) is  
5 inflation-adjusted dollars, and one (1) is discounted  
6 dollars. And depending on which of those three (3)  
7 options you choose, you can come to different  
8 conclusions when you're looking at financial options.

9                   There is no question that in nominal  
10 dollar terms, the cheapest way to pay for something is  
11 to pay for it in cash. If you pay for a hundred  
12 dollar item in cash, it costs a hundred nominal  
13 dollars, period, full stop. On the other hand, if you  
14 choose to finance something, it will cost more nominal  
15 dollars, because the cost of interest has to be  
16 included in that. But if you're paying for something  
17 over time, you're also not using the same dollars as  
18 you would if you paid in cash, because if you're  
19 making payments in the future, those -- those payments  
20 in the future are inflation-adjusted dollars. They're  
21 -- they're actually worth less in -- when you -- when  
22 you take time into -- into account. And if you  
23 consider them from an opportunity cost basis, you  
24 actually have to discount them, and the discount rate  
25 is typically higher than the inflation rate.

1                   So it makes sense if you're looking at  
2 a purchase through either an inflation-adjusted lens  
3 or through a -- a discounted lens to not pay for it in  
4 cash, to spread the cost out over time, because some  
5 of those dollars in the future are worth, quote-  
6 unquote, in some sense, less than the dollars are  
7 today. And so by delaying the payment, that delaying  
8 the payment might actually make sense. And there's a  
9 benefit to delaying payments, and that benefit is you  
10 spread the cost across when you're actually using the  
11 thing that you're buying.

12                   So yes, in nominal dollar terms, it's  
13 always true that paying for something faster will cost  
14 you fewer nominal dollars, but that doesn't  
15 necessarily mean it's the right thing to do.

16

17                   (BRIEF PAUSE)

18

19                   THE CHAIRPERSON:   Mr. Gange, you --  
20 you only have a few minutes.

21                   MR. WILLIAM GANGE:   Yes. Thank you.

22

23                   (BRIEF PAUSE)

24

25 CONTINUED BY MR. WILLIAM GANGE:



1                   MR. WILLIAM GANGE:     And -- and sir,  
2 from your perspective, is it possible that -- that to  
3 -- to achieve down the line lower rates in the future  
4 by virtue of higher rates up-front?

5                   MR. PELINO COLAIACOVO:    There's no  
6 question that you can do that. The -- the -- one (1)  
7 of the questions that arises when you're making  
8 capital investments for long-lived goods is always the  
9 tension that arises between who is paying for that  
10 good over time, and who's using that good over time?  
11 And as I -- I tried to explain yesterday, the typical  
12 accounting way of managing long-lived investments  
13 doesn't necessarily lead to a -- a clear -- or a -- or  
14 a direct relationship between the use of a service and  
15 the payment for that service.

16                   The -- the accounting treatment leads  
17 to some ratepayers paying a lot more to use a service  
18 than potentially ratepayers would in the future. And  
19 in a utility that has lots of different assets and  
20 spreads the purchase of those assets over time, that  
21 tension disappears, because every year, you're  
22 replacing some assets, and -- and each one (1) of them  
23 represents a tiny little sawtooth, for example. But  
24 when we layer all those sawtooths one (1) on top of  
25 another, it turns into a flat line, right?

1                   The challenge with very large assets  
2 with a utility that has to spend money on one (1) or  
3 two (2) very large assets every once in a while, is  
4 that the sawtooth becomes noticeable. It sticks out  
5 above the flat line and then you actually have to try  
6 and manage it. So if you -- the -- the taller you  
7 make the sawtooth the lower your nominal dollar  
8 expenditure is going to be, but that doesn't make it  
9 fair or sensible from an inflation-adjusted or a  
10 discount rate adjusted basis.

11                   MR. WILLIAM GANGE:    Thank you. Those  
12 are my questions. Thank you very much, Mr. Chair.

13                   THE CHAIRPERSON:    Thank you. Mr.  
14 Williams...?

15

16 CROSS-EXAMINATION BY MR. KEVIN WILLIAMS:

17                   MR. KEVIN WILLIAMS:    Good morning, Mr.  
18 Chair, Board members, and the Mr. Colaiacovo. I'll  
19 apologize in advance if I mispronounce your name. I'm  
20 here on behalf of the Business Council of Manitoba.  
21 The Business Council has a narrow focus in this  
22 proceeding. Their primary concern relates to the  
23 fiscal health of Hydro and the Province of Manitoba,  
24 in particular, as it relates to credit ratings,  
25 interest costs, and the necess -- necessity to grant a

1 rate increase that will minimize the risk of any cre -  
2 - credit downgrade that will see interest costs  
3 increase for Hydro and the Province of Manitoba. As  
4 part of our involvement in this we served Information  
5 Requests on Morrison Park.

6 You're aware of that?

7 MR. PELINO COLAIACOVO: Yes.

8 MR. KEVIN WILLIAMS: And I take it,  
9 sir, that -- that in responding to our Information  
10 Request, Morrison Park did so on a truthful basis and  
11 in good faith.

12 Is that fair?

13 MR. PELINO COLAIACOVO: Yes, we did.

14 MR. KEVIN WILLIAMS: And there was no  
15 attempt on the part of Morrison Park to be flippant or  
16 evasive in terms of how it responded to the  
17 Information Request put forward by the Business  
18 Council.

19 Is that fair?

20 MR. PELINO COLAIACOVO: That's fair.

21 MR. KEVIN WILLIAMS: If I could have  
22 you turn to Information Request Number 7, please.

23

24

(BRIEF PAUSE)

25

1 MR. KEVIN WILLIAMS: In this  
2 Information Request, we asked Morrison Park as to  
3 whether the credit rating agencies -- whether the bond  
4 purchasers and traders routinely rely on the credit  
5 rating agency reports as inputs in their analysis of  
6 their buy/sell trade decisions.

7 The response we received from Morrison  
8 Park is that -- that sophisticated financial market  
9 participants take advantage of all infor -- available  
10 information, including that from credit rating  
11 agencies. You make the point that given that credit  
12 rating agencies are for-profit entities, they would  
13 not continue to operate without active customers. And  
14 it's reasonable to believe that their information is  
15 widely disseminated.

16 Well, you would know, sir, that the  
17 information produced by the credit rating agencies is  
18 widely disseminated; isn't it?

19 MR. PELINO COLAIACOVO: To their  
20 paying customers, yes, it is.

21 MR. KEVIN WILLIAMS: Right. And --  
22 and you then go on and say where the bond purchasers  
23 and traders rely on the analysis of the credit rating  
24 agencies as opposed to forming their own views or  
25 relying on market analyst or advisors is unknown.

1                   That's what would you say -- your --  
2 you -- that Morrison Park doesn't know; right?

3                   MR. PELINO COLAIACOVO:    I actually  
4 would argue that -- credit rating agencies typically  
5 put out reports either on an annual basis or on an at-  
6 request basis when client is -- or a -- an issuer is  
7 putting out a debt instrument. Traders make decisions  
8 in liquid markets on a daily basis. So to suggest  
9 that traders are relying on credit rating agency  
10 reports in making their trades, I think is problematic  
11 because they make many more trades at many more times  
12 than credit rating agencies issue reports.

13                   Do they take into account information  
14 from credit rating agencies when that information is  
15 available once per year, or once periodically? I  
16 think it's reasonable to assume that they do take that  
17 information into account. Does that information drive  
18 their decision-making on a daily basis when credit  
19 rating reports are not available? I would find it  
20 hard to believe that that would be the case, but I  
21 point out here that short of speaking directly to  
22 traders, I think you can't really make a conclusive  
23 judgement about that.

24                   MR. KEVIN WILLIAMS:    Okay. And -- and  
25 so I take it then, sir -- sir, I -- I note that then

1 you went on to say that, you know, that -- that  
2 Morrison Park would be prepared to do an analysis on  
3 that, but it was only if they were paid for by the  
4 PUB.

5 Is that -- is that the balance of your  
6 response?

7 MR. PELINO COLAIACOVO: Well, my point  
8 is that, in fact, we have done similar assignments --

9 MR. KEVIN WILLIAMS: Right.

10 MR. PELINO COLAIACOVO: -- for other  
11 agencies where we canvass capital market participants  
12 directly about their views on a particular issue.  
13 We've not done that in this case.

14 MR. KEVIN WILLIAMS: Right. And --  
15 and -- but you were prepared to do so, if you -- if  
16 you were to be paid for it.

17 Is that fair?

18 MR. PELINO COLAIACOVO: We're a for-  
19 profit company, too, yes.

20 MR. KEVIN WILLIAMS: That's going to  
21 be my very next question, sir. If we can turn to  
22 slide 4, please, from your presentation yesterday.

23 Like the credit rating agencies,  
24 Morrison Park is an investment bank, and it's a for-  
25 profit entity; isn't it?

1 MR. PELINO COLAIACOVO: Yes, it is.

2 MR. KEVIN WILLIAMS: Okay. Now, it  
3 says, "All opinions are opinions of the firm." And  
4 that's underlined. I -- I take it that's because of  
5 the fact that there's a number of people that  
6 collaborate in these presentations and responses that  
7 are put forward?

8 MR. PELINO COLAIACOVO: That's  
9 correct.

10 MR. KEVIN WILLIAMS: Okay. And so --  
11 so, in terms of your own particular experience, sir,  
12 no disrespect intended, but -- but I look under the  
13 last bullet there on that page and it says you have  
14 degrees in law, economics, political  
15 science/international relations. I -- I looked at the  
16 website for Morrison Park and -- and I see that --  
17 that what you identify yourself as having is a -- is a  
18 Bachelor of Arts and a Bachelor of Law.

19 Is that an accurate description as to  
20 what your -- your education is?

21 MR. PELINO COLAIACOVO: That's right.

22 MR. KEVIN WILLIAMS: Okay. And -- and  
23 so your degrees in economics, political science, and  
24 international relations, I take it, were your major  
25 and minor in your arts degree.

1 Do I have that?

2 MR. PELINO COLAIACOVO: Actually it  
3 was a specialist, a major, and I also had a minor in  
4 philosophy.

5 MR. KEVIN WILLIAMS: Which was a  
6 specialist and a major?

7 MR. PELINO COLAIACOVO: International  
8 relations is a specialist, which includes political  
9 science, history, and economics. Economics was the  
10 major and philosophy was the minor.

11 MR. KEVIN WILLIAMS: Right. So what  
12 you have is two (2) degrees then, I take it, neither  
13 of them --

14 MR. PELINO COLAIACOVO: That's right.

15 MR. KEVIN WILLIAMS: -- neither of  
16 them are post -- postgraduate degrees; correct?

17 MR. PELINO COLAIACOVO: Neither of  
18 those is a postgraduate degree.

19 MR. KEVIN WILLIAMS: Okay. So now if  
20 we can turn to Information Request 4, please.

21

22 (BRIEF PAUSE)

23

24 MR. KEVIN WILLIAMS: The question --  
25 the first question we asked you there is:



1 "What is the potential risk of a  
2 credit downgrade for the Province of  
3 Manitoba by Dominion bond rating  
4 service? Provide discussion with  
5 specific reference to your  
6 submissions or the submissions of  
7 others where applicable."

8 And you see that question, sir?

9 MR. PELINO COLAIACOVO: I do.

10 MR. KEVIN WILLIAMS: The response to  
11 that is:

12 "The potential risk a credit  
13 downgrade for the Province of  
14 Manitoba is a matter beyond Morrison  
15 Park's scope."

16 You see that, sir?

17 MR. PELINO COLAIACOVO: I do.

18 MR. KEVIN WILLIAMS: Yeah. And -- and  
19 so -- so that was true when you -- when you answered  
20 that Information Request; was it not?

21 MR. PELINO COLAIACOVO: It was.

22 MR. KEVIN WILLIAMS: Okay. And if --  
23 and -- and we asked you the same questions at -- at  
24 Information Request 5, as it relates to Moody's. And  
25 it -- as it relates to Information Request 6, as it

1 relates to Standard & Poor's. And in each case you  
2 said the risk of a potential ground -- downgrade for  
3 the Province of Manitoba by any of these trade rating  
4 -- credit rating agencies was beyond your scope.

5                   That's how you folks responded;  
6 correct?

7                   MR. PELINO COLAIACOVO:    So the  
8 question asks about the potential risk of a credit  
9 downgrading for the Province of Manitoba bearing no  
10 relation to what the risks are, or what the  
11 circumstances might be. And -- and what I read from  
12 that question is: What is the risk of a downgrade in  
13 the Province of Manitoba's credit rating writ large?  
14 And I cannot answer that question.

15                   If the Province of Manitoba comes up  
16 with a new budget or an economic update, or a  
17 statement of intention or policy which has some  
18 critical effect on the finances of the province, then  
19 there would be a risk given of a credit rating  
20 downgrade. But that's well beyond the scope of what  
21 we've been asked to look at.

22                   MR. KEVIN WILLIAMS:    I see. So -- so  
23 if you turn to slide 23 from your presentation  
24 yesterday, in these bulleted points isn't Morrison  
25 Park expressing opinions that it said was beyond its

1 scope?

2 MR. PELINO COLAIACOVO: The opinions--

3 MR. KEVIN WILLIAMS: The appro -- the  
4 potential for the impact on the -- on the province's  
5 credit ratings?

6 MR. PELINO COLAIACOVO: The opinions  
7 on slide 23 relate specifically to Manitoba Hydro not  
8 to the province writ large, not to provincial budgets,  
9 provincial in -- economic statements, provincial  
10 policies that have nothing to do with Manitoba Hydro.

11 MR. KEVIN WILLIAMS: But that's not  
12 how you responded to the Information Request; did you?

13 MR. PELINO COLAIACOVO: The  
14 Information Requests did not specify anything.

15 MR. KEVIN WILLIAMS: Yeah. But you  
16 certainly were aware of the fact that based on the  
17 Information Requests that we were concerned about the  
18 interrelationship between Manitoba Hydro's fiscal  
19 position and the province's fiscal position.

20 And -- and you're aware of that when  
21 you answered the Information Requests?

22 MR. PELINO COLAIACOVO: With all due  
23 respect, it's not our role to assume anything about a  
24 question in an IR, certainly not a question that's put  
25 -- put to us in such an open-ended manner.

1 MR. KEVIN WILLIAMS: I see. Okay. If  
2 you could turn now to slide 20, please.

3

4 (BRIEF PAUSE)

5

6 MR. KEVIN WILLIAMS: Now, you indicate  
7 that there is no practical risk that Manitoba Hydro  
8 would ever have trouble raising debt funding. And  
9 then you indicate that unless the world ends and  
10 provide an example of another financial crisis  
11 freezing the capital markets.

12 I -- I take it, sir, that -- that  
13 you're aware of the stock market crash in '87?

14 MR. PELINO COLAIACOVO: Yes.

15 MR. KEVIN WILLIAMS: And that had an  
16 impact on the financial markets; did it not?

17 MR. PELINO COLAIACOVO: The stock  
18 market crash of '87 had profound -- well profound --  
19 had a -- a very significant impact on the stock  
20 market, actually did not affect the lig -- the credit  
21 markets for sovereign debt or some sovereign debt,  
22 particularly much at all.

23 MR. KEVIN WILLIAMS: I see. And --  
24 and would you make the same comment about the -- the  
25 tech bubble in 2000?

1 MR. PELINO COLAIACOVO: I would  
2 actually suggest that a bigger issue for the sovereign  
3 markets was the 1998 credit crisis when sovereign  
4 credit from a number of countries in Asia was  
5 troubled. The tech bubble in 2000 was mostly limited  
6 to the stock market again.

7 MR. KEVIN WILLIAMS: I was not here  
8 yesterday, but understand you spoke of the fact that  
9 you were attempting to access the capital markets in  
10 September 2008 for a few transactions. And you  
11 couldn't, in fact, close those transactions till early  
12 2009.

13 Do I have that correct?

14 MR. PELINO COLAIACOVO: That's  
15 absolutely correct.

16 MR. KEVIN WILLIAMS: And I take it,  
17 sir, that -- that when you were able to close the  
18 transactions that they were at higher interest and  
19 borrowing costs than they were when you were  
20 approaching the markets in '08?

21 MR. PELINO COLAIACOVO: I -- I think  
22 it's fair to say that all credit costs in the  
23 immediate aftermath of the 2008 credit crisis spiked.  
24 And if you were to look at statistics dealing with  
25 credit costs in -- in that time period you would see a

1 very significant spike in credit costs during that  
2 period.

3 MR. KEVIN WILLIAMS: And -- and my  
4 point in these questions, sir, is that there's  
5 significant events that occur in the economy  
6 periodically, and -- and they can have dramatic  
7 effects on the ability to obtain capital and the cost  
8 of that capital.

9 Is that fair?

10 MR. PELINO COLAIACOVO: It is fair.  
11 And in general they are short-term in nature.

12 MR. KEVIN WILLIAMS: Okay. And I take  
13 it that -- that Morrison Park is not in a position to  
14 say whether such event -- such -- another such event  
15 will occur next week or next month or next year.

16 Is that fair?

17 MR. PELINO COLAIACOVO: That's fair  
18 because no one (1) is in a position to make statement.

19 THE CHAIRPERSON: Sorry, Mr. Williams,  
20 you've got a couple of minutes.

21 MR. KEVIN WILLIAMS: Thank you.

22

23 (BRIEF PAUSE)

24

25 CONTINUED BY MR. KEVIN WILLIAMS:

1 MR. KEVIN WILLIAMS: If you could  
2 turn, sir, to slide 22, the challenges Manitoba Hydro  
3 faces.

4 You've identified project cost  
5 overruns, so -- so that's a fact that were attempting  
6 to deal with; is it not?

7 MR. PELINO COLAIACOVO: I believe it  
8 is, yes.

9 MR. KEVIN WILLIAMS: Yeah. And -- and  
10 at -- at some point time all those costs are going to  
11 have to be paid for one (1) way or the other, right?

12 MR. PELINO COLAIACOVO: Yes, they  
13 will.

14 MR. KEVIN WILLIAMS: Okay. And you've  
15 talked about hydrological risk this morning. I -- I  
16 take it that -- that the -- the risk of -- of us  
17 moving into more of a drought scenario is -- is -- the  
18 probability of that occurring is higher than it not  
19 occurring in the near term?

20 MR. PELINO COLAIACOVO: I have no way  
21 of making that analysis. I think the -- statistically  
22 the answer would be the probability at any given time  
23 of a drought beginning next year is the same. There -  
24 - there is no reason to think that past history  
25 affects the future when you're -- when you're talking

1 about a truly random variable like water inflows.

2 MR. KEVIN WILLIAMS: Sir -- sir,  
3 interest rates and inflation are at all time lows; are  
4 they not?

5 MR. PELINO COLAIACOVO: I -- I think  
6 that's true.

7 MR. KEVIN WILLIAMS: And so the  
8 probability of higher interest rates -- of -- of  
9 interest rates and inflation increasing is greater  
10 than it is decreasing in the near term; is it not?

11 MR. PELINO COLAIACOVO: Again, I would  
12 be very careful about using the words -- using terms  
13 around probability. I think if you asked that  
14 question five (5) years ago the answer would have been  
15 yes. And yet interest rates have remained flat or  
16 lower than five (5) years ago. No one can actually  
17 predict with accuracy what's going to happen with  
18 interest rates and inflation.

19 MR. KEVIN WILLIAMS: And as a  
20 consequence of that it's better to be more  
21 conservative in your approaches to these financing  
22 matters; isn't it, sir?

23 MR. PELINO COLAIACOVO: That is a  
24 matter of opinion and debate.

25 MR. KEVIN WILLIAMS: Thank you. Those



1 my questions.

2 THE CHAIRPERSON: Thank you very much,  
3 Mr. Williams. We will adjourn now until 12:30. Thank  
4 you.

5

6 --- Upon recessing at 9:47 a.m.

7 --- Upon resuming at 12:56 p.m.

8

9 THE CHAIRPERSON: With the -- with the  
10 free time we're going to have Man -- Manitoba Hydro's  
11 going to put in some exhibits.

12 Yes, we are on the record and Manitoba  
13 Hydro will be introducing some exhibits.

14

15 (BRIEF PAUSE)

16

17 THE CHAIRPERSON: The good news is Dr.  
18 Grant is back so. Well, don't worry, you don't have  
19 to run.

20

21 (BRIEF PAUSE)

22

23 THE CHAIRPERSON: Ms. Ramage...?

24 MS. PATTI RAMAGE: Yes, and I can  
25 indicate with Mr. Grant's arrival the undertakings

1 have been distributed to the Board not those in the  
2 room, so we don't take that time. None of them relate  
3 to what we're dealing with today.

4                   The first is Manitoba Hydro Undertaking  
5 Number 25 dealing with revenue from MKO First Nations,  
6 and that we will assign Manitoba Hydro Exhibit 113.

7

8 --- EXHIBIT NO. MH-113:       Undertaking Number 25  
9                                   dealing with revenue from  
10                                   MKO First Nations.

11

12                   MS. PATTI RAMAGE:    The next is  
13 Manitoba Hydro Undertaking Number 26, which is  
14 determining the level of incremental revenues from MKO  
15 communities with the 7.9 percent rate increase; that  
16 we will be assigning Manitoba Hydro Exhibit 114.

17

18 --- EXHIBIT NO. MH-114:       Undertaking Number 26,  
19                                   which is determining the  
20                                   level of incremental  
21                                   revenues from MKO  
22                                   communities with the 7.9  
23                                   percent rate increase.

24

25                   MS. PATTI RAMAGE:    And lastly, is

1 Undertakings 30 and 31 dealing with estimated marginal  
2 values. And that is being assigned Manitoba Hydro  
3 Exhibit 115.

4

5 --- EXHIBIT NO. MH-115: Undertakings 30 and 31  
6 dealing with estimated  
7 marginal values

8

9 THE CHAIRPERSON: Thank you. Thank  
10 you, Ms. Ramage. Thank you. M. Monnin...?

11

12 CROSS-EXAMINATION BY MR. CHRISTIAN MONNIN:

13 MR. CHRISTIAN MONNIN: Thank you, Mr.  
14 Chair and members of the Panel. Good afternoon, Mr.  
15 Colaiacovo. I'm legal counsel for the General Service  
16 Small and General Service Medium customer classes, as  
17 well as the Keystone Agricultural Producers who are  
18 intervening in this matter.

19 And I'd like to let the record show  
20 that I too have a philosophy degree and in this  
21 exercise I will undertake I will do my best to not be  
22 a shining example of the Socratic paradox of if I know  
23 one thing is I know nothing.

24 I'd like to ask you some questions with  
25 -- firstly, with regards to the debt-to-equity ratio.

1 And these first series of questions will be a  
2 demonstration of my grasp of the obvious but there's  
3 method to my madness.

4 In this application you agree with me  
5 that Manitoba Hydro has taken the position that it  
6 should strive to achieve the debt-to-equity ratio  
7 target of 75/25 by the end of the fiscal year ending  
8 March 31st, 2027, correct?

9 MR. PELINO COLAIACOVO: That's what  
10 they've applied -- in -- that -- that's what it says  
11 in their application.

12 MR. CHRISTIAN MONNIN: And you agree  
13 with me that this is about half the time that was  
14 proposed by Manitoba Hydro -- arguably proposed by  
15 Manitoba Hydro during the Needs For and Alternatives  
16 To the hearing; correct?

17 MR. PELINO COLAIACOVO: Yeah. I'm --  
18 in the NFAT reference cases for Manitoba Hydro's  
19 preferred plans, they typically showed the achievement  
20 of 75 percent sometime in the middle of 19 -- middle  
21 2030s. And so moving -- though I don't think they  
22 ever actually said flatly that it was a -- a timing  
23 goal that achieving by 'X' on such a date is what we  
24 want to do.

25 But certainly in the reference versions

1 of their preferred options, that's what was always the  
2 case. So I think it's -- it's reasonable to assume  
3 that that's what they were striving to achieve and,  
4 clearly, 2027 is much sooner than that.

5 MR. CHRISTIAN MONNIN: Thank you. And  
6 we can all agree that the rate increase that Manitoba  
7 Hydro's proposing in these proceedings is 7.9 percent.

8 MR. PELINO COLAIACOVO: Yes.

9 MR. CHRISTIAN MONNIN: And would you  
10 agree that if Manitoba Hydro's goal was not 75/25  
11 debt-to-equity ratio or if the goal to achieve this  
12 target was not ten (10) years rather than give or take  
13 the twenty (20) years that was arguably mentioned in  
14 the NFAT, is it safe to say that Hydro would not need  
15 the proposed 7.9 percent rate?

16 MR. PELINO COLAIACOVO: I think that's  
17 fair.

18 MR. CHRISTIAN MONNIN: And I  
19 understand your evidence, Mr. Colaiacovo, that it's  
20 MPI's conclusion that Manitoba Hydro is arbitrarily  
21 setting a ten (10) year timeframe for the achievement  
22 of the 75/25 debt-to-equity target; is that correct?

23 MR. PELINO COLAIACOVO: I've used  
24 those words, yes.

25 MR. CHRISTIAN MONNIN: And why -- why

1 have you used those words arbitrarily setting?

2 MR. PELINO COLAIACOVO: The  
3 explanations given in the application by Manitoba  
4 Hydro use the terms "financial strength" repeatedly  
5 and use the terms "unacceptable risk," but without  
6 providing numerical demonstration that, you know, what  
7 the probability of the occurrence of that unacceptable  
8 risk is, that would require such an extraordinary rate  
9 increase and -- and certainly such an extraordinary  
10 repetition of rate increases.

11 In the NFAT process there was a lot of  
12 time and effort spent on showing that rate increases  
13 at two (2) times the rate of inflation were going to  
14 be sufficient to -- to pay for their preferred  
15 development plan. Many, many scenarios were run and -  
16 - and there was some discussion about that earlier  
17 today. And in a very, very small number of scenarios  
18 it -- you know, we demonstrated in our own analysis  
19 that two (2) times the rate of inflation might not  
20 have been enough, right. But those were a very very  
21 small number of potential cases.

22 Now in the application, Manitoba Hydro  
23 has asked for four (4) times the rate of inflation  
24 because the previous paths were unacceptably risky.  
25 But what does that actually mean? And it -- it

1 doesn't appear from the material that we read that  
2 they've provided any clear logical links between the  
3 data and the request other than -- than using terms  
4 like "unacceptably risky." What threshold of  
5 probability is unacceptably risky? What threshold of  
6 consequences are unacceptably risky? Yes, there are  
7 cases where 4 percent, for example, two (2) times the  
8 rate of inflation is not enough.

9                   But how many cases, under what  
10 scenarios and what is the likelihood of those  
11 occurring and should you be raising rates by four (4)  
12 times the rate of inflation because there is, for  
13 example, a 5 percent probability of that scenario  
14 arising? Should you raise rates if there's a 10  
15 percent scenario? Should you raise rates if there's a  
16 20 percent probability? They haven't talked about any  
17 of that.

18                   They've simply said, we want to raise  
19 rates at four (4) times the rate of inflation to  
20 achieve this target by 2027, because the alternative  
21 is unacceptably risky. To me, if you don't provide  
22 the data, if you don't provide thresholds, if you  
23 don't provide analysis, it's arbitrary.

24                   MR. CHRISTIAN MONNIN: Thank you. And  
25 in addition to that, Morrison Park draws a conclusion

1 that setting since arbitrary ten (10) year timeframe  
2 is particularly insupportable; is that correct?

3 MR. PELINO COLAIACOVO: Yes.

4 MR. CHRISTIAN MONNIN: And that is on  
5 account of this arbitrary timeframe being set in the  
6 face of massive investments in new projects, is that  
7 correct?

8 MR. PELINO COLAIACOVO: Yes.

9 MR. CHRISTIAN MONNIN: And what this  
10 arbitrary timeframe is doing is effectively requir --  
11 requiring today's ratepayers to contribute in the next  
12 ten (10) years, 25 percent of the full amount spent to  
13 date on Bipole III, Keeyask and related projects;  
14 correct?

15 MR. PELINO COLAIACOVO: That's  
16 correct.

17 MR. CHRISTIAN MONNIN: In addition  
18 it's asking today's ratepayers to contribute in the  
19 next ten (10) years, 25 percent of all the remaining  
20 produc -- all the remaining projects until they are  
21 completed, that is Bipole, Keeyask, et cetera.

22 Is that correct?

23 MR. PELINO COLAIACOVO: Yes.

24 MR. CHRISTIAN MONNIN: I understand  
25 your evidence is that Keeyask and Bipole are two (2)



1 of the largest projects Manitoba Hydro's ever seen; is  
2 that safe to say?

3 MR. PELINO COLAIACOVO: Yes, it is.

4 MR. CHRISTIAN MONNIN: And Mr.  
5 Colaiacovo, in view of that what would you -- be your  
6 response to the argument that imposing the proposed  
7 rate increases are -- that we're dealing with today,  
8 and the timeframe on ratepayers is what is  
9 consistently and normally done from time to time with  
10 a publicly owned verti -- vertically integrated  
11 electrical Utility?

12 MR. PELINO COLAIACOVO: Yes, I think  
13 Manitoba Hydro itself has a history where they built  
14 large projects. Other similar Utilities build large  
15 projects from time to time and have to face the same  
16 challenges. How do you -- how do you integrate that  
17 large project into your balance sheet and your rates  
18 over time so that it's fair and balanced.

19 MR. CHRISTIAN MONNIN: And what is  
20 being proposed -- are you able to -- to provide an  
21 opinion, is this fair and balanced in light of the  
22 fact that we're dealing with two (2) of the largest  
23 projects that Manitoba Hydro's ever seen?

24 MR. PELINO COLAIACOVO: So after our  
25 own analysis of the risks and -- and our own analysis

1 of the evidence about those risks, in our view, the  
2 case has certainly not been made that the 7.9 -- a  
3 series of 7.9 percent increases are required to manage  
4 the risks that -- that they have indicated are out.

5 MR. CHRISTIAN MONNIN: I'd like to ask  
6 you a few questions about the export market for  
7 Manitoba Hydro.

8 My understanding is -- your evidence is  
9 that Manitoba Hydro is the only Utility which combines  
10 a full cost recovery model with an explicit mission to  
11 develop electrical -- electricity resources for export  
12 purposes?

13 MR. PELINO COLAIACOVO: That's  
14 correct.

15 MR. CHRISTIAN MONNIN: And would it be  
16 -- would you agree with me if I suggested that the  
17 decision to develop Keeyask to a certain extent forms  
18 part of that mission?

19 MR. PELINO COLAIACOVO: I -- I think  
20 that's absolutely true in the -- in the NFAT process  
21 there was a discussion about the -- the choice of  
22 building Keeyask earlier or later.

23 If Keeyask was built earlier then most  
24 of the output from Keeyask in the early years would go  
25 to exports and, in fact, Manitoba Hydro put a lot of

1 effort into signing export contracts for some of that  
2 output. Whereas in other scenarios, Keeyask would be  
3 built later principally to serve the domestic market  
4 and less for export purposes.

5                   So the objective to build a project  
6 specifically for export is -- is part of that mandate.

7                   MR. CHRISTIAN MONNIN:    And would you  
8 agree with me that to a certain extent Bipole III as  
9 well forms part of that export mission?

10                   MR. PELINO COLAIACOVO:    So the --  
11 well, our understanding of the objectives for Bipole  
12 or the -- the purposes of constructing Bipole are  
13 domestic reliability and security of the transmission  
14 grid.

15                   I don't believe that there is any  
16 official statement anywhere which says that Bipole III  
17 was built in order to enable exports and -- and  
18 construction of -- of projects for export purposes.  
19 On the other hand, the preferred development plan in  
20 the NFAT which included Keeyask and Conawapa would not  
21 be possible without Bipole III. And so it's just a  
22 conjecture that at least one (1) of the reasons  
23 Bipole III was built was not just for reliability  
24 purposes, but also to enable an export focus for the  
25 Company.

1 MR. CHRISTIAN MONNIN: I'll take that  
2 answer and move on, Mr. Colaiacovo, thank you.  
3 Continuing on -- on the export -- development of  
4 export sales, it -- is it safe to say that the  
5 business model and risks associated with Manitoba  
6 Hydro's exports are fundamentally different from the  
7 business model and risks associated with other  
8 domestic monopoly utilities?

9 MR. PELINO COLAIACOVO: Well, the --  
10 the only other two (2) Utilities that have explicit  
11 mandates to construct projects for the purposes of  
12 exporting power at the moment are Quebec and  
13 Newfoundland.

14 Historically, Ontario Hydro did that  
15 but Ontario Hydro no longer exists, and BC Hydro does  
16 not actually currently have a system which allows it  
17 to have net exports on a consistent basis. Some years  
18 they export and some years they import energy. So  
19 Manitoba is -- is in select company in terms of  
20 building projects that have the capacity to export.

21 However, both Quebec and Newfoundland,  
22 the way those companies are structured, they pay  
23 profits to their governments and are explicitly  
24 required to pay profits to their government. So, the  
25 government is benefitting from the exports and -- and

1 also putting capital into those companies in order to  
2 benefit from those exports.

3                   So, Manitoba is unique in being pure  
4 cost recovery and export focused.

5                   MR. CHRISTIAN MONNIN:    And looking at  
6 the Hydro Quebec, for example, would you agree with me  
7 that there's a -- a -- a built-in protection for  
8 ratepayers with regards to these -- the export  
9 mission?

10                   MR. PELINO COLAIACOVO:    Yes, that's  
11 correct. Hydro Quebec has a defined heritage pool of  
12 electricity, which is used for domestic consumers and  
13 the price of that heritage pool of electricity is tied  
14 to inflation, the growth and the price is tied to  
15 inflation. The rest of their power they sell on the  
16 market, and that, you know, results in whatever price  
17 they can get on the market through contracts and --  
18 and through spot market sales.

19                   MR. CHRISTIAN MONNIN:    And would you -  
20 - thank you for that. But would you agree, therefore,  
21 with the following, that keeping that in mind what  
22 we've discussed about Manitoba Hydro's export mission,  
23 would it buttress Morrison Park's position that the  
24 proposed increases and timeframe are unsupportable  
25 because the financial consequences regarding decisions

1 on export projects are largely borne by the domestic  
2 ratepayers?

3 MR. PELINO COLAIACOVO: Well, I think  
4 all the costs of Manitoba Hydro, ultimately, our --  
5 how to put it, a liability for ratepayers. Exports  
6 are -- revenues are great but there are no guarantees  
7 for export revenues. Export revenues ultimately are  
8 whatever the market will bear.

9 But, those costs have to be recovered  
10 and if they're not recovered in export markets, they  
11 must be recovered from domestic ratepayers, that's  
12 what the legislation says and -- and that's what has  
13 always been the case.

14 MR. CHRISTIAN MONNIN: Thank you. In  
15 your report at page 4 of 161. Diana, you don't need  
16 to go there. I'll just read this into the record.  
17 However, you -- you state that:

18 "The sharp increases in rates  
19 designed ostensibly to protect  
20 ratepayers from undue financial  
21 risks and burdens in the future  
22 instead appears to create  
23 significant burdens for ratepayers  
24 in the short term, with uncertainty  
25 -- pardon me, on certain utility for

1 ratepayers later."

2 What -- what do you mean by "on certain  
3 utility for ratepayers later?"

4 MR. PELINO COLAIACOVO: So there's no  
5 question that the rate increases our burden  
6 immediately. There is considerable uncertainty as to  
7 whether in the future Manitoba Hydro will need to  
8 continue raising rates, or could freeze rates or could  
9 actually, in some cases, reduce their rates.

10 And, you know, ratepayers in the future  
11 could face, in fact, a power at a much lower nominal  
12 dollar price and a much -- a dramatically lower  
13 inflation adjusted price or not, because it -- it  
14 isn't unclear from the -- certainly what -- the  
15 statements that Manitoba Hydro has made what their  
16 long-term policy actually is.

17 In their modelling that they included  
18 with the rate application, they showed the debt ratio,  
19 in fact, not only being achieved by '27 -- 2027 but  
20 then being exceeded and -- and debt falling sharply in  
21 -- into the 50 percent range.

22 Alternatively, in response to some IRs,  
23 they showed the possibility that they could actually  
24 cut rates, but then there have been statements made by  
25 executives at Manitoba Hydro that you can't actually

1 run a Utility with negative net income and -- and that  
2 suggests that they might not actually reduce rates,  
3 they might instead only choose to flatline rates.

4                   So there's a lot of uncertainty as to -  
5 - as to what would happen, but the one -- one issue  
6 that there's no uncertainty about is that ratepayers  
7 beginning immediately would be facing a much, much  
8 larger burden.

9                   MR. CHRISTIAN MONNIN: Thank you, Mr.  
10 Colaiacovo. I'd like to ask you some questions with  
11 regards to construction risks.

12                   My understanding is that construction  
13 risks in your report is identified at one of the five  
14 (5) broad categories of risks that an electric  
15 utility, such as Manitoba Hydro, may face; correct?

16                   MR. PELINO COLAIACOVO: Yes.

17                   MR. CHRISTIAN MONNIN: And Manitoba  
18 Hydro as we know is in the process of building two (2)  
19 major projects: Keeyask and Bipole III. And as  
20 you've noted in your report, as has already occurred,  
21 these construction projects, Keeyask in particular,  
22 has had delays with the schedule and budget; correct?

23                   MR. PELINO COLAIACOVO: Yes.

24                   MR. CHRISTIAN MONNIN: In your report  
25 you indicate that Manitoba Hydro provided financial



1 analysis of a thirty-two (32) month delay of the  
2 Keeyask project. But you also go on to say that on  
3 account of confidentiality concerns that information  
4 was redr -- redacted.

5                   And under the issue of risk modelling  
6 in your report, still dealing with Keeyask, you note  
7 that while construction risks associated with Keeyask  
8 were also significant, they were unfortunately not  
9 investigated.

10                   Do you recall saying that in your  
11 report?

12                   If you want we can go to page 40 to  
13 refresh your memory on that.

14                   MR. PELINO COLAIACOVO:    Yeah, if --  
15 just to get the context of the statement would be  
16 helpful.

17                   MR. CHRISTIAN MONNIN:    Page 40 of 161,  
18 please, Diana.

19                   MR. PELINO COLAIACOVO:    All right.

20                   MR. CHRISTIAN MONNIN:    And we'd be  
21 looking at the top of the page.

22

23                                   (BRIEF PAUSE)

24

25                   MR. CHRISTIAN MONNIN:    I'm sorry, that

1 would be page 42, still top of the page. It'd be the  
2 second full sentence, lines 1 and 2.

3 MR. PELINO COLAIACOVO: Oh, could --  
4 could you go to the beginning of the paragraph on the  
5 bottom of 41. Thank you.

6 MR. CHRISTIAN MONNIN: And for  
7 completeness, Mr. Colaiacovo, you might want to read  
8 the footnote 32.

9 MR. PELINO COLAIACOVO: Right. Now --  
10 now I recall what -- what this is talking about.

11 Yes. So there is a table in Hydro --  
12 Manitoba Hydro's application which showed potential  
13 risks and -- and how much of a consequence they might  
14 have, plus or minus a percentage interest rate, a  
15 drought scenario, and so on and so forth.

16 And they -- based on the magnitude of  
17 those risks, on the magnitude of the impact of those  
18 risks, they decided to investigate some things further  
19 and other things not. One (1) of the risks that they  
20 listed was capital cost overruns and based on the  
21 amount of capital cost overruns that they had invested  
22 -- they had -- had analysed in that table, they  
23 decided it was not important enough to pursue further.

24 In actual fact, it appears that there  
25 is a risk of a considerably higher construction cost

1 overrun and had they chosen a higher number, the  
2 magnitude of the risk would have been large enough  
3 than they -- that they would have likely done more  
4 investigation, but that wasn't what they chose to do.  
5 Hence the term "unfortunately not investigated."

6 MR. CHRISTIAN MONNIN: Thank you. I'd  
7 like to ask you -- appreciating I have about ten (10)  
8 minutes left, I'll -- I'll do the best that I can.  
9 I'd like to ask you some questions with respect to  
10 Manitoba Hydro being a self-supporting entity.

11 In its filing Manitoba Hydro has stated  
12 that a financial plan that returns the Corporation to  
13 a 25 percent equity level over almost a twenty (20)  
14 year -- over -- over -- almost twenty (20) years is  
15 not credible as a commitment to being a self-  
16 supporting entity.

17 Is it safe to assume that you don't  
18 necessarily agree with that statement, Mr. Colaiacovo?

19 MR. PELINO COLAIACOVO: Yes. I think  
20 in the NFAT, as I -- as I mentioned earlier, the  
21 preferred development plan that Manitoba Hydro  
22 strenuously supported through that whole hearing  
23 process, in fact, appear to include an assumption that  
24 achieving 75 percent would only be done after the  
25 passage of approximately twenty (20) years under a

1 reference scenario.

2                   And the outcome of the NFAT process was  
3 approval of the Keeyask project going forward.

4 Markets did not react badly to that, in fact, there  
5 was no real market reaction. There's no indication  
6 that -- the problematic course of action to take.

7 Manitoba Hydro has now said that they believe it's an  
8 unacceptable risk and -- and an unacceptable timeframe  
9 for achievement of that target, but they've not said  
10 that because anyone has reacted to it.

11                   So, you know, it -- it -- it raises the  
12 issue of why they've come to the conclusion that it's  
13 so unacceptable.

14                   MR. CHRISTIAN MONNIN:    Mr. Colaiacovo,  
15 in your report you state that Manitoba Hydro is -- and  
16 this is at page 34 of 161, if we need reference.

17                   But in the interest of time I'm not  
18 going to ask you to go there. In your report you  
19 state that Manitoba Hydro is self-supporting as long  
20 as it has cash flows -- as long as its cash flows  
21 continue to be sufficient to cover its costs including  
22 the debt costs.

23                   MR. PELINO COLAIACOVO:    That comes  
24 directly from the first page at the top of DVRS's  
25 report. It's an -- almost a quote.

1 MR. CHRISTIAN MONNIN: And do you  
2 adopt that?

3 MR. PELINO COLAIACOVO: Yes.

4 MR. CHRISTIAN MONNIN: And so in your  
5 opinion, is it safe to say Manitoba Hydro does not  
6 need the proposed rate -- rate increases or the time  
7 frame to attain this?

8 MR. PELINO COLAIACOVO: I believe  
9 that's true. I -- I don't think that there is  
10 sufficient support to justify the -- the application  
11 that they've made.

12 MR. CHRISTIAN MONNIN: In your  
13 evidence, Mr. Colaiacovo, was that this Board, the  
14 Public Utilities Board, should provide some clarity  
15 and signal to capital markets but whether Manitoba  
16 Hydro is self-supporting?

17 MR. PELINO COLAIACOVO: I think the  
18 capital markets do believe that Manitoba Hydro is  
19 self-supporting. I think Manitoba Hydro itself has  
20 thrown some confusion by the statements that they've  
21 made in their application, suggesting that they're  
22 facing unacceptable risk.

23 It would be helpful and beneficial if  
24 the risk issues were clarified and if the long-term  
25 rate path was clarified somewhat to provide

1 reassurance to capital markets that, in fact, the rate  
2 -- the Board at least is not concerned about Manitoba  
3 Hydro's self-supporting status.

4 MR. CHRISTIAN MONNIN: And how -- how  
5 would the Board go about doing this, Mr. Colaiacovo?

6 MR. PELINO COLAIACOVO: I think by  
7 enunciating a policy on how rates are going to be  
8 managed and -- and reassuring markets that rates will  
9 be managed in a fashion to ensure that Manitoba Hydro  
10 continues to pay its bills, as it has in the past.

11 And I think that will be a reassuring  
12 message.

13 MR. CHRISTIAN MONNIN: Thank you.  
14 Diana, could you please go to page 11 of 161. Looking  
15 at lines 11 down to 15.

16 Mr. Colaiacovo, I just -- and I'm also  
17 going to take you then to slide 35 of -- of your  
18 presentation. I'm just trying to get clarification  
19 from you.

20 Here in your report you write:

21 "It's important to note that despite  
22 the change in forward projections  
23 based on Manitoba Hydro's target,  
24 debt/equity ratio and timing goal,  
25 Manitoba Hydro has not

1 not] requested that PUB formally  
2 endorse or otherwise agree with  
3 either the target level or the  
4 timing goal."

5 And it goes on. If you can please go  
6 to slide 35 please, Diana. And under the first  
7 bullet:

8 "Manitoba Hydro has emphasized its  
9 debt ratio target and timing goal in  
10 its application." [you write] "The  
11 previous timing goal mid-2030s for  
12 achievement of the target has been  
13 explicitly repudiated and the PUB is  
14 being asked to endorse a new  
15 position through its rate decision."

16 And there seems to be a --

17 MR. PELINO COLAIACOVO: Yeah, a --

18 MR. CHRISTIAN MONNIN: A little  
19 discrepancy.

20 MR. PELINO COLAIACOVO: Yeah, perhaps  
21 I can clarify. I think in the -- in the -- in the  
22 report I was saying that the application is asking for  
23 rates for two (2) years specifically. I think the  
24 only way that you can come to a conclusion that those  
25 rates are required is if you believe that the target

1 of 75 percent debt and the timing goal must be  
2 achieved by 2027; if you don't believe that, then the  
3 7.9 percent rate increase, I believe, does not have  
4 sufficient support.

5 Wh -- I've restated it perhaps with a  
6 poor choice of words using the word "endorse," but on  
7 this slide, what I'm essentially saying -- saying is  
8 unless -- well, it's the same point, unless the Board  
9 comes to the conclusion that achieving 75 percent by  
10 2027 is, in fact, important in the way that Manitoba  
11 Hydro has described it in its application, then you  
12 know they -- they will not come to the conclusion that  
13 7.9 percent is the right number.

14 If, on the other hand, the previous  
15 timing goal of mid-2030s for achievement of 7. -- 7.5  
16 percent continues to be supported by the PUB, then you  
17 won't get to a 7.9 percent increase, you'll get to  
18 some other increase that's not 7.9 percent.

19 So I apologize if that the -- the - the  
20 words appear to be in conflict but the message has  
21 been the same.

22 MR. CHRISTIAN MONNIN: Thank you. Mr.  
23 Colaiacovo, previously we had heard evidence from Dr.  
24 Adonis Yatchew and he gave testimony, in broad terms,  
25 in order to assess likely impacts and responses of



1 various customer groups of rate increases of the  
2 proposed magnitudes, as well as the implications for  
3 the Manitoba economy as a whole.

4                   And in his concluding observations, I'd  
5 just like to see if you're able to comment on this.

6 In his concluding observations, Mr. Yatchew indicated  
7 that approval of the increases that are being proposed  
8 by Manitoba Hydro, 7.9 percent, will suggest the  
9 acceptance of Manitoba Hydro's arguments and its focus  
10 on the time profile of future financial ratios.

11                   Is that something that you would agree  
12 with?

13                   MR. PELINO COLAIACOVO:    Yes, I think  
14 he's essentially saying the same thing I am. The only  
15 way you can rationally conclude that 7.9 percent is  
16 necessary is if you believe 75 percent must be  
17 achieved by 2027; other -- if you don't believe that  
18 75 percent debt must be achieved by 2027, then I don't  
19 think there is a rational basis for concluding that  
20 7.9 percent increases are necessary.

21                   MR. CHRISTIAN MONNIN:    Thank you.  
22 And this is a -- I have one (1) or two (2) more  
23 questions. I'm almost done, Mr. Chair.

24                   Returning to your report at page 53 of  
25 161, in particular, at lines 10 through 14, you state:

1 "However, if the PUB chooses to  
2 clarify how it would approach the  
3 issues of reserves and rate  
4 stability in the future, it will  
5 simplify the process of ratemaking,  
6 both for Manitoba Hydro and for  
7 Intervenors. With the settlement of  
8 these issues and the adoption of a  
9 standardized methodology, the  
10 question of reserves and plan  
11 addition to reserves could become  
12 focused on mathematical and  
13 probabilistic calculation rather  
14 than debate over principles and  
15 potential impacts."

16 And the question I have, as follows:  
17 is -- is -- I understand your evidence is that you're  
18 not giving a specific recommendation as to what the  
19 rate ought to be, rather that this Board gives  
20 guidelines and rules.

21 And in light of that, would it be your  
22 recommendation that in doing so this Board proceed  
23 with rate applications that are shorter and -- there's  
24 less time frame between -- between rate applications  
25 not on a two (2) basis but on a rolling basis that's

1 more like one (1) year, given the circumstances that  
2 we're in?

3 MR. PELINO COLAIACOVO: I -- I don't  
4 think I have a strong opinion, frankly, on whether the  
5 Board should review rates annually or every two (2)  
6 years or every three (3) years. I think my focus is  
7 if the process were more rule-based and formula-based,  
8 it would lead to much shorter processes and fewer  
9 issues of -- of conflict than, you know, the -- the  
10 current situation where there is a lot of debate over  
11 principles that should -- that should be enforced  
12 through a rate application. Whether it was one (1)  
13 year or two (2) years or -- or, you know, et cetera, I  
14 -- I think it's entirely up to the Board.

15 MR. CHRISTIAN MONNIN: Thank you, Mr.  
16 Colaiacovo. Those are my questions, Mr. Chair, thank  
17 you.

18 THE CHAIRPERSON: Thank you, Mr.  
19 Monnin. Mr. Ghikas...?

20

21 CROSS-EXAMINATION BY MR. MATTHEW GHIKAS:

22 MR. MATTHEW GHIKAS: Good afternoon,  
23 Mr. Chairman and members of the Panel. Good  
24 afternoon, Mr. Colaiacovo. My name's Matt Ghikas, G-  
25 H-I-K-A-S, for the record, and I'm one (1) of several

1 counsel for Manitoba Hydro here. And you and I can  
2 have a dual to see whose name gets mispronounced more  
3 often.

4 All right, what I'd like to start with  
5 today -- oh, and I should say before I get going, Mr.  
6 Chairman, we have circulated electronically a book of  
7 documents for cross-examination. I would propose at  
8 this point to mark that book of documents, the  
9 electronic version as Manitoba Hydro Number 116,  
10 Number 116 and it's in print services getting printed  
11 as hard copies as well, but I think we can -- most of  
12 the materials are already in the record as well.

13 THE CHAIRPERSON: Thank you.

14

15 --- EXHIBIT NO. MH-116: Book of documents for  
16 cross-examination of Mr.  
17 Colaiacovo by Manitoba  
18 Hydro.

19

20 CONTINUED BY MR. MATTHEW GHIKAS:

21 MR. MATTHEW GHIKAS: So, Mr.  
22 Colaiacovo, I want to start with something that -- an  
23 exchange that you had with Mr. Gange this morning.  
24 You were talking about a test when looking at rates  
25 and you suggested that you want to make sure you have

1 enough reserves.

2 MR. PELINO COLAIACOVO: That's  
3 correct.

4 MR. MATTHEW GHIKAS: Okay. Now, I'd  
5 suggest to you that when it comes to managing distress  
6 that comes with an event such as drought, the critical  
7 issue is the magnitude of the outstanding debt on the  
8 balance sheet, not the size of the retained earnings.

9 MR. PELINO COLAIACOVO: I don't think  
10 I would necessarily agree with you. I don't think  
11 magnitude of debt in isolation has any relevance.  
12 Debt in relation to assets so, you know, if your  
13 assets are highly leveraged it wouldn't matter but if  
14 you have \$50 billion of assets and \$25 billion of debt  
15 is 25 billion an important number? I don't actually  
16 think so.

17 So the magnitude of the debt in  
18 isolation is just a fact.

19 MR. MATTHEW GHIKAS: Okay. Now as a  
20 couple of people have alluded to, and you alluded to  
21 as well, you did testify at the NFAT proceeding?

22 MR. PELINO COLAIACOVO: I did.

23 MR. MATTHEW GHIKAS: Okay and you  
24 provided responses to Information Requests as well?

25 MR. PELINO COLAIACOVO: I did.

1 MR. MATTHEW GHIKAS: Okay. I'd ask --  
2 I -- I believe your answer that you've just given me  
3 is a little different than what your information  
4 response has said at the NFAT so let's just call up  
5 one of those. This is NFAT IR CAC-MPA-13.

6 So, Mr. Colaiacovo, I'll just let you  
7 read that for a moment. This is a question that was  
8 posed in the context of an issue regarding drought and  
9 it was posed by your current client and you've -- you  
10 were asked about retained earnings and your response  
11 was that the critical issue is the magnitude of  
12 outstanding debt on the balance sheet, not the size of  
13 the retained earnings.

14 Do you see that?

15 MR. PELINO COLAIACOVO: Yes. Is there  
16 any more to the response?

17 MR. MATTHEW GHIKAS: No, that's it.

18 So --

19 MR. PELINO COLAIACOVO: Right.

20 MR. MATTHEW GHIKAS: Go ahead.

21 MR. PELINO COLAIACOVO: The -- the  
22 retained earnings are room which allows you to issue  
23 debt, in essence, right you can increase your debt  
24 ratio closer to 100 percent debt at any given time.  
25 If 100 percent debt is actually problematic than the

1 further away you are from 100 percent debt, the more  
2 room you have.

3 Retained earnings are not cash, right.  
4 There's no question about that. And I think elsewhere  
5 in our -- in our reports and documents we talk about  
6 the distinction that it's actually not cash. And  
7 there's -- there's no question about that.

8 The magnitude of the outstanding debt  
9 tells you how much interest, as it says here, the  
10 interest charge is related to the large outstanding  
11 debt represent a real call on cash flow because cash  
12 flow is the issue.

13 And so if drought causes your cash flow  
14 to fall, you have a problem that you have to manage.

15 MR. MATTHEW GHIKAS: And you'd agree  
16 with this statement then that a large pool of retained  
17 earnings in this environment would be beneficial in  
18 that the Company balance sheet potentially could  
19 sustain a series of annual losses but balance sheet  
20 retained earnings bear little relationship to the  
21 availability of cash resources.

22 You'd agree with that, sir?

23 MR. PELINO COLAIACOVO: Yep.

24 MR. MATTHEW GHIKAS: Now, you would  
25 also agree with me that adverse development since the

1 NFAT have been driving debt higher and faster than  
2 expected, sir?

3 MR. PELINO COLAIACOVO: That's  
4 correct.

5 MR. MATTHEW GHIKAS: And higher than  
6 expected debt brings with it higher than expected  
7 interest cost, doesn't it?

8 MR. PELINO COLAIACOVO: It does.

9 MR. MATTHEW GHIKAS: And not only does  
10 it bring higher interest costs, that cost is now  
11 expected to be recovered over fewer kilowatt hours  
12 than anticipated at the time of the NFAT, correct?

13 MR. PELINO COLAIACOVO: But just to  
14 take a step back, higher than expected debt brings  
15 higher interest cost if the interest rate is assumed  
16 to be stable.

17 However, if the interest rate is  
18 declining, higher interest rate -- higher debt doesn't  
19 necessarily require higher interest payments because  
20 it's the combination of the rate and the size of the  
21 debt.

22 MR. MATTHEW GHIKAS: And have you been  
23 seeing interest rates decline lately, sir?

24 MR. PELINO COLAIACOVO: I think  
25 Manitoba Hydro has been experiencing a decline of



1 interest rate -- in interest rate over the past five  
2 (5) years.

3 MR. MATTHEW GHIKAS: The long Canada  
4 bond rates are rising, though, aren't they, sir?

5 MR. PELINO COLAIACOVO: The long  
6 Canada bond rates have been rising in the past few  
7 months, but have certainly been falling over the past  
8 five (5) years.

9 MR. MATTHEW GHIKAS: And projections  
10 are that they'll continue to rise?

11 MR. PELINO COLAIACOVO: I think the  
12 short-term interest rate projections that Manitoba  
13 Hydro and everyone else has access to are forecasting  
14 an increase in those rates, modest increase in the  
15 next three (3) years. However, they also forecasted a  
16 modest increase three (3) years ago and it didn't  
17 happen over the course of the last three (3) years.  
18 Those are just --

19 MR. MATTHEW GHIKAS: And these are --

20 MR. PELINO COLAIACOVO: -- forecasts.

21 MR. MATTHEW GHIKAS: And we're  
22 experiencing historic low interest rates, correct?

23 MR. PELINO COLAIACOVO: Yes, we are.

24 MR. MATTHEW GHIKAS: And so if we were  
25 to go back to the 1980s, for example, we'd be up in

1 the high teens or early 20s?

2 MR. PELINO COLAIACOVO: Absolutely.

3 MR. MATTHEW GHIKAS: Now, I believe  
4 that you also said, sir, that in response to questions  
5 that in ord -- that to make sure that the Company is  
6 perceived as self-supporting through the drought  
7 period, you have to have enough reserves.

8 Do you recall that?

9 MR. PELINO COLAIACOVO: Absolutely.

10 MR. MATTHEW GHIKAS: Okay and I  
11 believe you suggested possibly in the range of five  
12 (5) to seven (7) years was based on historic numbers?

13 MR. PELINO COLAIACOVO: I pointed out  
14 that Manitoba Hydro has, in this application, and in  
15 the NFAT and previously, provided cases and examples  
16 of five (5) and seven (7) year drought. There have  
17 been longer droughts historically, but five (5) and  
18 seven (7) year droughts are an analysis that Manitoba  
19 Hydro has provided on a number of occasions.

20 MR. MATTHEW GHIKAS: And certainly in  
21 your -- your presentation deck at slide 29, you cite  
22 that equity and reserves should be at a level  
23 sufficient to manage a defined level of scenarios,  
24 right?

25 MR. PELINO COLAIACOVO: That's right.

1 MR. MATTHEW GHIKAS: Okay. Now, if  
2 Manitoba Hydro, as you said -- let me back up. As you  
3 said, Mr. Colaia -- Col --

4 MR. PELINO COLAIACOVO: It's all  
5 right.

6 MR. MATTHEW GHIKAS: Okay, Mr. Colio -  
7 - oh my God. Do it once more for me?

8 MR. PELINO COLAIACOVO: Colaiacovo.

9 MR. MATTHEW GHIKAS: Colaiacovo. This  
10 from the Ghikas, right.

11 Mr. Colaiacovo, as you said the  
12 reserves that Manitoba Hydro has are not cash;  
13 correct?

14 MR. PELINO COLAIACOVO: No, they're  
15 not.

16 MR. MATTHEW GHIKAS: And so -- and as  
17 you indicated that effectively what the reserves are  
18 is room, if I can put it this way, room to borrow  
19 more.

20 MR. PELINO COLAIACOVO: That's  
21 correct. They -- in a -- in a drought environment  
22 where cash flow is reduced because of the consequences  
23 of a drought, Manitoba Hydro would have to borrow more  
24 funds from the province of Manitoba and, therefore,  
25 the ratio of debt to capital would rise.

1 MR. MATTHEW GHIKAS: And if -- if  
2 Manitoba Hydro was able to borrow throughout a drought  
3 period, there would be no risk to its self-supporting  
4 status?

5 MR. PELINO COLAIACOVO: I think no  
6 risk is perhaps harsh or -- or aggressive, but  
7 certainly the -- the objective of having a rule that  
8 looks at a potential drought and saying, do we have  
9 enough reserves to withstand a potential drought, is a  
10 rational way of going about setting those rates.

11 MR. MATTHEW GHIKAS: Okay, if we can  
12 go to -- I circulated to your counsel last Friday, a  
13 note just indicating that I would be potentially  
14 referring you to your NFAT report. And so I'd like to  
15 refer you to that now. And it's -- there are some  
16 pages from it that are in the book of documents. It's  
17 not the entire report because I didn't need the entire  
18 report, but it's around the first thirty (30) pages  
19 that is in -- in tab 8 of the book of documents.

20 Now the passage that I'd like to take  
21 you to right now, sir, is at page 27. And this is the  
22 January 24, 2014 commercial evaluation of Manitoba  
23 Hydro preferred business -- preferred development plan  
24 business case. Page 27.

25

1 (BRIEF PAUSE)

2

3 MR. MATTHEW GHIKAS: All right, so in  
4 this section of your -- your report, Mr. Colaiacovo,  
5 you were going through the business case and you had  
6 to section dealing with the government of Manitoba and  
7 you were discussing the government's interests  
8 starting on page 26 of 94. And then over on page 27,  
9 you have a discussion here about what occurs in the  
10 event of a drought. And at line 15, say:

11 "On its face the legislative  
12 requirement that Manitoba Hydro  
13 cover all the costs of Manitoba  
14 Hydro after export revenues are  
15 deducted seems to mean that  
16 government would never be called  
17 upon to pay Manitoba Hydro's debts.  
18 After all, Manitoba Hydro needs more  
19 revenue -- if Manitoba Hydro needs  
20 more revenue to pay its costs then  
21 it can simply request that the PUB  
22 raise customer rates. However, in  
23 an extreme situation of financial  
24 distress for Manitoba Hydro, for  
25 example, caused by prolonged

1 drought, the need to pay debt costs  
2 may conflict with the need to  
3 maintain competitive electricity  
4 rates. For example, if electricity  
5 costs were to rise dramatically,  
6 implying the need for a substantial  
7 rate increase, large manufacturers  
8 might threaten to close their doors  
9 and move production to other  
10 jurisdictions unless the government  
11 intervened to provide assistance."

12 And here's the sentence I want to focus  
13 on:

14 "If rates were kept low and Manitoba  
15 Hydro simply absorbed the financial  
16 losses for a period of years then  
17 Manitoba Hydro's status as a  
18 financially self-supporting entity  
19 could be called into question."

20 And you'd agree with that statement,  
21 sir?

22 MR. PELINO COLAIACOVO: I continue to  
23 agree with that statement.

24 MR. MATTHEW GHIKAS: So the mere fact  
25 that Manitoba Hydro would be experiencing the need to

1 acquire additional debt in a drought scenario could  
2 put that status in question?

3 MR. PELINO COLAIACOVO: I think there  
4 were a number of adjectives in those sentences that  
5 you're skipping over such as "prolonged drought."  
6 And, you know, "costs rising dramatically," and  
7 "substantial rate increase versus low rates."

8 So if you'll recall from the discussion  
9 this morning around the NFAT, we were modelling rates  
10 that were never allowed to change by more than two (2)  
11 times the rate of inflation, either up or down because  
12 that was considered to be a significant change. A  
13 rate of change which was the most that ratepayers  
14 could reasonably absorb.

15 And so we were modelling the assumption  
16 that in a drought scenario rates would continue to  
17 rise by twice the rate of inflation through the course  
18 of a drought. And then we tested using our financial  
19 modelling whether the Company could actually survive a  
20 very, very serious and prolonged drought if it was  
21 raising rates by two (2) times the rate of inflation.

22 And what we found was that under a very  
23 select number of scenarios, very bad scenarios, that  
24 the Company could not; that two (2) times the rate of  
25 inflation would not be enough in some very, very harsh

1 circumstances.

2                   And then in those cases, it would be a  
3 risk for the province of Manitoba that Manitoba Hydro  
4 might not be considered self-supporting.

5                   MR. MATTHEW GHIKAS:     And two --

6                   MR. PELINO COLAIACOVO:     In this -- in  
7 this rate of application, Manitoba Hydro has come  
8 forward and asked for four (4) times the rate of  
9 inflation, which is, you know, double the size of the  
10 rate that we modelled that would have applied to a  
11 very, very serious drought and there is not currently  
12 a drought.

13                   MR. MATTHEW GHIKAS:     And two (2) times  
14 the rate of inflation is roughly 3.95 percent?

15                   MR. PELINO COLAIACOVO:     Approximately.  
16 It -- at the time -- in one (1) run of models we used  
17 3.8, and in the next run of models it was four (4).

18                   MR. MATTHEW GHIKAS:     And you indicated  
19 there's no drought currently. In your evidence you  
20 suggested that based on past history there's a 10  
21 percent chance that Manitoba Hydro is embarking on a  
22 five (5) year drought.

23                   MR. PELINO COLAIACOVO:     That's --  
24 that's what the numbers imply. The historical record  
25 implies that there's pretty much always a 10 percent



1 risk that you're about to be starting a five (5) year  
2 drought.

3 MR. MATTHEW GHIKAS: And if you are  
4 experiencing...

5

6 (BRIEF PAUSE)

7

8 MR. MATTHEW GHIKAS: Now, let's set  
9 aside droughts for a moment. I'd just like to go back  
10 to your presentation, if we could, Diana. And this is  
11 slide 12, in particular.

12 And you'll see the first bullet there:

13 "Manitoba Hydro rates do not include  
14 a return on equity and no cost of  
15 equity appears in any of Manitoba  
16 Hydro's financial statements or  
17 plans."

18 Do you see that?

19 MR. PELINO COLAIACOVO: Yes.

20 MR. MATTHEW GHIKAS: Now, I'd suggest  
21 to you, sir, that rates approved by the Board should,  
22 as a matter of course, be set so that they include a  
23 return on equity component to ensure that Manitoba  
24 Hydro actually earns net income that can be retained.

25 MR. PELINO COLAIACOVO: Sorry.

1 MR. MATTHEW GHIKAS: Would you like me  
2 to hit you with that again?

3 MR. PELINO COLAIACOVO: Is that  
4 something that you're saying?

5 MR. MATTHEW GHIKAS: I'm -- I am  
6 asking you a question. I'm asking whether you will  
7 agree with the statement that rates approved by the  
8 Board should, as a matter of course, be set so that  
9 they include a return on equity component to ensure  
10 that Manitoba Hydro actually earns net income that can  
11 be retained.

12 MR. PELINO COLAIACOVO: So in the  
13 NFAT, Manitoba Hydro modelled the various development  
14 plan options using an assumption of 25 percent equity  
15 and a return on equity in order to construct their  
16 weighted average cost of capital.

17 We had analysis in our report in the  
18 NFAT about the assumptions they were making about the  
19 cost of capital that was used. If you'll note in my  
20 presentation from yesterday, I talk about customer  
21 contributions. Customer contributions to the Company  
22 are the equivalent of what would be called equity and  
23 a -- a customer contribution that's included as part  
24 of the revenue requirement would stand in the place of  
25 what, for investor-owned utilities, would be a return

1 on equity. It's another component of the revenue  
2 requirement.

3 So, if you actually go to the appendix  
4 to my presentation, which I did not run through  
5 yesterday, but in the -- I think it's starting at  
6 about slide 40 --

7 MR. MATTHEW GHIKAS: We'll -- we'll  
8 have lots of time for your appendix, sir, but my -- my  
9 question was a lot simpler than that, Mr. Colaiacovo.

10 It was whether you agree with this  
11 statement that rates approved by the Board should, as  
12 a matter of course, be set so they include a return on  
13 equity component to ensure that Manitoba Hydro  
14 actually earns net income that can be retained.

15 I don't want you to get caughtup.  
16 Let's call it a notional return on equity component,  
17 if you'd prefer.

18 MR. PELINO COLAIACOVO: Yep.

19 MR. MATTHEW GHIKAS: It should include  
20 those? Rates should include those?

21 MR. PELINO COLAIACOVO: Yes.

22 MR. MATTHEW GHIKAS: Okay. And a  
23 healthy business over time should generate sufficient  
24 cash flows to not only pay for its requirements, but  
25 also to generate net income, correct?

1 MR. PELINO COLAIACOVO: Well, in a  
2 pure cost recovery utility, you don't. In fact,  
3 you're statutorily not allowed to.

4 In a pure cost recovery utility, the  
5 net income or retained earnings that you're earning on  
6 an annual basis, effectively, is an equity  
7 contribution. And so if you want to maintain a  
8 specific debt ratio, then you need to have some net  
9 income in order to maintain that debt ratio because if  
10 -- if your net income is negative, what happens is  
11 that your debt ratio rises; if your net income is  
12 positive, your debt ratio falls in a pure cost  
13 recovery utility.

14 So it depends. And since in a company  
15 like Manitoba Hydro where revenues go up and down with  
16 exports and with water, you can't actually predict  
17 these things perfectly in advance. It makes sense to  
18 have some cushion, to have some equity in the Company  
19 and to adjust your rates accordingly over time.

20 MR. MATTHEW GHIKAS: So you would  
21 agree with this statement than that ov -- over time a  
22 healthy business should generate sufficient cash flows  
23 to pay for its capital expenditures and necessary  
24 interests and returns on equity associated with that  
25 capital, but in any given year it's not required?

1 MR. BOB PETERS: I think that's true.

2 MR. MATTHEW GHIKAS: And the reason  
3 it's not required is because of the variances  
4 potentially?

5 MR. PELINO COLAIACOVO: Yeah, that's  
6 right.

7 MR. MATTHEW GHIKAS: And a sign that a  
8 business has been retaining net income over time is  
9 that the equity portion of the capital structure is  
10 increasing, correct?

11 MR. PELINO COLAIACOVO: Yes.

12 MR. MATTHEW GHIKAS: And similarly,  
13 net losses erode the capital structure, erode the  
14 equity portion?

15 MR. PELINO COLAIACOVO: That's right.

16 MR. MATTHEW GHIKAS: All right. I  
17 want to -- to turn to your report, slide 30, please.  
18 Thank you, Diana.

19 Right now on this slide which you've  
20 titled Should Other Risks Be Managed By Reserves, you  
21 say -- you reference export prices, interest rates,  
22 inflation and indicate that they're not predictable.

23 And then you say that -- in the second  
24 major bullet:

25 "Reserves should not be used to

1 smooth these kinds of risks,  
2 especially over the long-term, e.g.,  
3 20 years."

4 Do you see that?

5 MR. PELINO COLAIACOVO: M-hm. Yes,  
6 sorry.

7 MR. MATTHEW GHIKAS: Now, I'd just  
8 like to take you to the book of documents that I  
9 prepared, Manitoba Hydro Exhibit 116, and this would  
10 be tab 3.

11 All right. So this -- you recognize  
12 this as an Information Response that you prepared for  
13 the -- the NFAT proceeding?

14 MR. PELINO COLAIACOVO: Yes.

15 MR. MATTHEW GHIKAS: Okay. And this  
16 is numbered -- for the record, this is numbered PUB-  
17 MPA-1-30(a).

18 And so this is discussing the -- the  
19 analysis that you were doing. It's discussing the  
20 equity risk premium. And just to back up for one (1)  
21 moment, the equity risk premium is a component of  
22 determining a return on equity as it were?

23 MR. PELINO COLAIACOVO: That's  
24 correct.

25 MR. MATTHEW GHIKAS: And you were

1 asked -- or there was a preamble that - that indicates  
2 that MPA states:

3 "Manitoba Hydro has a high degree of  
4 exposure to hydrology risk. Its  
5 financial exposure to market prices,  
6 ambitious construction program,  
7 including preferred development  
8 plan, the general issue can be  
9 raised with respect to what would  
10 represent an equity risk premium --  
11 a reasonable equity risk premium."

12 And then they asked you what you  
13 believe the equity risk premium should be and the  
14 rationale for its selection. And the part that I'm  
15 most interested in, you'll see it starting at line 2  
16 where you refer to:

17 "Manitoba Hydro's target equity  
18 ratio is a comparatively thin 25  
19 percent."

20 Do you see that?

21 MR. PELINO COLAIACOVO: Yes.

22 MR. MATTHEW GHIKAS: Okay. Now you go  
23 on to say at line 7:

24 "Assuming that legislation has  
25 accepted at face value and domestic

1 rates could rise to whatever level  
2 they were required at any given time  
3 to maintain Manitoba Hydro's  
4 solvency, under any circumstances,  
5 then a legitimate question is  
6 whether an equity risk premium is  
7 applicable. Now, on its face  
8 legislation, coupled with the  
9 provincial debt guarantee, suggests  
10 there is no risk to equity and,  
11 hence, the premium should be 0  
12 percent. In reality, however, rates  
13 do not rise and fall annually but  
14 are smoothed over time. This  
15 suggests that equity returns should  
16 be built into rate structures to  
17 provide a cushion for inevitable  
18 swings in cash flows that derive  
19 from noncontrollable events such as  
20 hydrology and export prices.  
21 Moreover, the possibility of  
22 prolonged financial distress also  
23 suggests that equity premiums and a  
24 healthy equity ratio target are  
25 required."



1 Do you see that?

2 MR. PELINO COLAIACOVO: I do.

3 MR. MATTHEW GHIKAS: Okay. Now, you'd  
4 agree with me, sir, that in that response you were  
5 referring to not just hydrology but also export  
6 prices?

7 MR. PELINO COLAIACOVO: I am.

8 MR. MATTHEW GHIKAS: Okay. And you  
9 would also agree with me that export prices are  
10 noncontrollable; right?

11 MR. PELINO COLAIACOVO: Absolutely.

12 MR. MATTHEW GHIKAS: And they drive  
13 swings in cash flow?

14 MR. PELINO COLAIACOVO: Yes, they do.

15 MR. MATTHEW GHIKAS: And interest  
16 rates are a noncontrollable factor?

17 MR. PELINO COLAIACOVO: They are.

18 MR. MATTHEW GHIKAS: And they drive  
19 changes in cash flow as well?

20 MR. PELINO COLAIACOVO: Yes, they do.

21 MR. MATTHEW GHIKAS: Now, if we can  
22 turn to one (1) of the IRs that you prepared in this  
23 proceeding, changing gears.

24 MR. PELINO COLAIACOVO: But I would  
25 add, you referred to my presentation earlier and on my

1 presentation on that slide at the bottom of the page,  
2 there is a reference to export prices in the short  
3 term being reserved against but not in the long-term.

4                   On the actual slide that you referred  
5 to and that's echoed in my report as well. I was  
6 drawing a distinction between short-term export price  
7 and the long-term. Actually, was it on this slide?  
8 It might not have been. I apologize, but it certainly  
9 was in the report.

10                   MR. MATTHEW GHIKAS: You're saying in  
11 the bullet reserves should not be used to smooth these  
12 kinds of risks, especially over the long-term.

13                   MR. PELINO COLAIACOVO: Right,  
14 especially over the long term.

15                   But there was reference in my report to  
16 how export prices, in the short term, are  
17 unpredictable and it may make sense, for example, to  
18 smooth export prices over five (5) years and simply  
19 accept that over the long term they're going to go  
20 where they go.

21                   MR. MATTHEW GHIKAS: All right.  
22 Turning now to a different topic. This is Exhibit  
23 Business Council of Manitoba, IR-5(a).

24

25                   (BRIEF PAUSE)

1

2 MR. MATTHEW GHIKAS: Thank you, Diana.

3 This one isn't in the -- in the book.

4 Now in -- you'll see the question and  
5 I'm actually -- I'm sorry, I'm looking for the  
6 response, the MPA response to it. Okay. Sorry, it's  
7 -- it's a -- sorry, wrong IR. It's BCM-Coalition 11,  
8 please. Thank you. Sorry about that.

9 Now -- so you'll see in this IR, the  
10 Business Council was quoting a passage from DBRS's  
11 report dated November 25th, 2016 in which it  
12 identified as a challenge high leverage and talking  
13 about the capital -- the target capital structure of  
14 75 percent debt.

15 And they asked you to confirm that DBRS  
16 is indicating that the number 1 challenge facing  
17 Manitoba Hydro is its debt/equity ratio. And your  
18 response starts off by saying:

19 "Clearly DBRS describes high  
20 leverage as a challenge."

21 So, I'm just pausing there. You take  
22 no issue with the presentation or the quote?

23 MR. PELINO COLAIACOVO: It's on the  
24 cover page of that report.

25 MR. MATTHEW GHIKAS: Okay. And then

1 you go on to say:

2 "The test for self-supporting  
3 status, however, relates to the  
4 sufficiency of cash flows."

5 Do you see that?

6 MR. PELINO COLAIACOVO: Yes.

7 MR. MATTHEW GHIKAS: Now, first of  
8 all, I just want to clarify your response. Were you  
9 indicating in your response that the test -- were you  
10 talking about DBRS only, or rating agencies generally  
11 or the markets generally or all of the above?

12 MR. PELINO COLAIACOVO: DBRS describes  
13 self-supporting status as the sufficiency of cash  
14 flows to cover operating cost plus debt. That's also  
15 in the same report on the same page.

16 MR. MATTHEW GHIKAS: No, I -- I  
17 understand that and my -- my question -- I was just  
18 seeking clarification as to whether or not your  
19 response, you were responding just to DBRS or whether  
20 you -- whether that answer also applies generally?

21 MR. PELINO COLAIACOVO: No, that --  
22 that -- that's a specific reference to DBRS. To their  
23 -- their statement that it was a challenge, but also  
24 their definition of self-supporting status.

25 MR. MATTHEW GHIKAS: Okay. Now if we

1 turn to -- if you can turn, Diana, to the book of  
2 documents, tab 1. There is a response to CAC-MPA-1-2  
3 and you -- you've seen this before?

4 MR. PELINO COLAIACOVO: Yes.

5 MR. MATTHEW GHIKAS: Okay. We -- what  
6 I'd like to do is -- and I should say, you -- you  
7 prepared this response for the NFAT?

8 MR. PELINO COLAIACOVO: I did with my  
9 colleague Ben, yes.

10 MR. MATTHEW GHIKAS: Pardon me?

11 MR. PELINO COLAIACOVO: I did with my  
12 colleague Ben.

13 MR. MATTHEW GHIKAS: Okay. Thank you.  
14 And the question was: Provide any documentation that  
15 supports the statement that the 25 percent level of  
16 equity has either been agreed to or is required by the  
17 shareholder.

18 And you say a number of things about --  
19 about that. You also say, on line 15:

20 "Moreover, the target ratio is  
21 referred to by credit-rating  
22 agencies when they consider whether  
23 Manitoba Hydro is financially self-  
24 supporting. And given the  
25 importance of this view to Manitoba

1 Hydro, if the ratio were of a  
2 concern, then government would  
3 likely have suggested a change."

4 Now, the target ratio of 75 to 25 is  
5 still referred to by credit-rating agencies, including  
6 DBRS, isn't it?

7 MR. PELINO COLAIACOVO: They do.

8 MR. MATTHEW GHIKAS: DBRS hasn't  
9 changed their methodology in a fundamental way in some  
10 time?

11 MR. PELINO COLAIACOVO: No, they have  
12 not.

13 MR. MATTHEW GHIKAS: Okay. Now, if we  
14 can turn to -- I should say, with respect to your  
15 response to the Business Council IR that the test is -  
16 - is a self -- test for self-supporting is sufficiency  
17 of cash flows, would you agree with me that if in the  
18 course of a drought, the mere fact that Manitoba Hydro  
19 is borrowing can be -- can put that status at risk,  
20 would you not agree with me that logically speaking,  
21 the test can't simply be just cash flows?

22 MR. PELINO COLAIACOVO: So I think  
23 it's -- it's helpful to look a real case. In the  
24 early 2000s, there was a year of significant drought,  
25 and Manitoba Hydro's financial performance suffered

1 dramatically that year. Its cash flow dropped far  
2 below its desired levels. The credit-rating agencies  
3 did not respond. There was no change to Manitoba  
4 Hydro's credit rating, despite the fact that they had  
5 one (1) very bad cash flows year because, in fact, the  
6 next year was much better.

7           Credit-rating agencies look at cash  
8 flow over time. They look at three (3) to five (5)  
9 years of cash flow in the past. They look at cash  
10 flow -- expected cash flows in the future, and they  
11 want to ensure that there is a reasonable sufficiency  
12 of cash flow over time. They recognize that hydrology  
13 is what it is, and it changes. And so one (1) year is  
14 not going to change everything.

15           MR. MATTHEW GHIKAS: Yeah, not --  
16 maybe were speaking at cross purposes, here. I was  
17 referring back to the passage in your report that you  
18 prepared for the NFAT where you indicated that  
19 successive years of low rates may -- and low rates and  
20 losses may indicate or may put at risk the self-  
21 supporting status. Do you recall that?

22           MR. PELINO COLAIACOVO: I do. And --  
23 and that was in the context of a prolonged drought,  
24 causing, you know, a prolonged series of losses. And  
25 if there was not a sufficient rate response to those

1 losses over time, it would call into doubt the self-  
2 supporting status of the company.

3 MR. MATTHEW GHIKAS: And just a simple  
4 question: cash flow and negative net income are not  
5 synonymous, are they?

6 MR. PELINO COLAIACOVO: They're not.

7 MR. MATTHEW GHIKAS: And -- and that's  
8 because there are non-cash factors like depreciation  
9 expense, which flow into net income?

10 MR. PELINO COLAIACOVO: That's  
11 correct.

12 MR. MATTHEW GHIKAS: Now if we flip  
13 back to your -- if we flip back to your slide  
14 presentation, slide 7, please. Thank you, Diana.

15 I want to refer -- just look at -- just  
16 talk about your justification, your reference to it in  
17 the second bullet being distinctly lacking, the  
18 reference to the 25 percent of total capital being  
19 distinctly lacking. Now, you gave extensive mark --  
20 commentary on the markets at the NFAT proceeding,  
21 didn't you?

22 MR. PELINO COLAIACOVO: I -- I'm not  
23 sure it was extensive. Most of the job that -- that  
24 we had in the NFAT proceeding was actually financial  
25 analysis of the various plans. There was some



1 commentary on capital markets.

2 MR. MATTHEW GHIKAS: Right. And you  
3 did comment also on the self-supporting status test?

4 MR. PELINO COLAIACOVO: Yes, we did.

5 MR. MATTHEW GHIKAS: And you never  
6 indicated at any time in your evidence there that the  
7 use of a target of 75/25 was distinctly lacking?

8 MR. PELINO COLAIACOVO: We did not  
9 comment on the targets. We did not comment on a  
10 variety of issues during the NFAT process. The -- we  
11 limited ourselves to the scope of work we were given.

12 MR. MATTHEW GHIKAS: And I guess the  
13 exception to that would be your comment in CAC/MPA-2,  
14 where you said:

15 "Moreover, the target ratio is  
16 referred to by credit-rating  
17 agencies when they consider whether  
18 Manitoba Hydro is financially self-  
19 supporting, and given the importance  
20 of that view, if that ratio is a  
21 concern, then government would  
22 likely have suggested a change."

23 That would be an exception to that,  
24 sir?

25 MR. PELINO COLAIACOVO: We -- that's

1 not an exception. It's merely a comment that we did  
2 not look at Manitoba Hydro's targets, examine them,  
3 and provide any opinion on those targets.

4 MR. MATTHEW GHIKAS: The ratings  
5 reports for Manitoba Hydro include multiple financial  
6 metrics, don't they?

7 MR. PELINO COLAIACOVO: Yes. There --  
8 there are quite a number of metrics that they look at.

9 MR. MATTHEW GHIKAS: And not just cash  
10 flow metrics?

11 MR. PELINO COLAIACOVO: The -- I think  
12 the -- the language that I used was, The test for  
13 self-supporting status is cash flow. The rating  
14 report itself looks at a -- a long list of different  
15 metrics.

16 MR. MATTHEW GHIKAS: And it -- it  
17 includes the debt/equity ratios, right?

18 MR. PELINO COLAIACOVO: Yes, it does.  
19 It's part of the financial fundamental, so-called, of  
20 -- of any firm.

21 MR. MATTHEW GHIKAS: And you'd agree  
22 with me that the reference to the 75/25 that DBRS  
23 makes in its rating reports as being the target, that  
24 doesn't occur in the section that deals specifically  
25 with self-supporting, does it?

1 MR. PELINO COLAIACOVO: If I recall  
2 correctly, DBR -- DBRS recognizes that the Company's  
3 target is 75/25, and that they're not there currently,  
4 and that they want to get back there. Those are all  
5 statements that DBRS makes in its report.

6 MR. MATTHEW GHIKAS: Right. And the -  
7 - the part that you're focusing in on is the statement  
8 that they -- well, let's look at it. It's at Tab --  
9 Tab 11 of the book of documents, please. There's a  
10 couple of -- sorry, wrong one. Tab 7.

11

12 (BRIEF PAUSE)

13

14 MR. MATTHEW GHIKAS: So just in terms  
15 of the portion that you're referring to, you're  
16 referring to the rating update over on the second  
17 page, page 2 of 40? Over on the second page, there.  
18 That -- that -- when you're talking about the test for  
19 self-supporting, that's what you're zeroing in on,  
20 correct?

21 MR. PELINO COLAIACOVO: That is their  
22 language in terms of how they summarize the test.

23 MR. MATTHEW GHIKAS: Right. And the  
24 reference to the -- the capital structure occurs on  
25 page 7, I think, if it's there. Yes, it is, on page

1 7. Under the heading 'Regulation', you'll see in the  
2 first bullet under electricity?

3 MR. PELINO COLAIACOVO: Right.

4 MR. MATTHEW GHIKAS: Right. So based  
5 on your comments at the NFAT, it doesn't matter  
6 whether these discussions are occurring in the -- in  
7 the section dealing with the rating update, they still  
8 are considered in the context of the self-supporting  
9 test, right?

10 MR. PELINO COLAIACOVO: I'm not sure I  
11 understand the question.

12 MR. MATTHEW GHIKAS: Well, based on  
13 your response at the NFAT, you were pointing out that  
14 the rating agency refers to the fact that the target  
15 is 75/25, right?

16 MR. PELINO COLAIACOVO: That's  
17 correct.

18 MR. MATTHEW GHIKAS: Okay. And it  
19 doesn't do that in that one (1) paragraph that you're  
20 focused in on, does it?

21 MR. PELINO COLAIACOVO: No. And I  
22 think it would be helpful -- in the presentation I  
23 gave yesterday, the -- there was a statement I make  
24 about self-supporting status. I believe it's in  
25 section 4, approximately slide 20.

1 (BRIEF PAUSE)

2

3 MR. PELINO COLAIACOVO: No, it may be  
4 the -- the...

5

6 (BRIEF PAUSE)

7

8 MR. PELINO COLAIACOVO: It's the --  
9 sorry, 23. Yeah, there it is.

10 So here, I say that:

11 "Self-supporting effectively means  
12 as long as there is a positive  
13 assessment of the regulatory regime,  
14 the ability to raise rates and  
15 financial reserves as compared to  
16 cost overruns, droughts, and other  
17 risks, et cetera."

18 The technical definition of self-  
19 supporting is a cash flow based definition, but when  
20 you're looking forward in time, you have to estimate  
21 those cash flows somehow, and you estimate those cash  
22 flows by looking at the regulatory regime, looking at  
23 the willingness to raise rates in response to  
24 conditions, and looking at the financial fundamentals  
25 of the firm. That's how you do a forward estimate of

1 cash flows, which is what the rating agencies care  
2 most about.

3                   Yes, they look at the history of your  
4 cash flows, at your average cash flows over time, but  
5 they also look at what, you know, but they -- they  
6 estimate what your future cash flows are going to be,  
7 and you can't just estimate the future on the basis of  
8 the past. You also need to make some assumptions.  
9 And assumptions about the regulatory regime, the  
10 financial reserves, and the ability to -- to raise  
11 rates all form part of that estimation process.

12                   And so, yes, in -- in simplest terms,  
13 self-supporting status is about cash flow, but  
14 estimating cash flow takes a lot more than just a few  
15 numbers.

16                   MR. MATTHEW GHIKAS:    Okay, so your  
17 response, then, to the Business Council was  
18 significantly incomplete. Is that what you're saying?

19                   MR. PELINO COLAIACOVO:    I will  
20 entirely admit to the response to the Business Council  
21 being shorter than it could otherwise have been.

22                   MR. MATTHEW GHIKAS:    All right. So...

23

24

(BRIEF PAUSE)

25

1 MR. MATTHEW GHIKAS: The debt/equity  
2 ratio is relevant to self-supporting status because  
3 it's an indication that electricity ratepayers have  
4 actually been paying for Manitoba Hydro's costs, isn't  
5 it?

6 MR. PELINO COLAIACOVO: I'm sorry,  
7 could you repeat that?

8 MR. MATTHEW GHIKAS: Sure. The  
9 debt/equity ratio is relevant to self-supporting  
10 status because it's an indication that electricity  
11 ratepayers have actually been paying for Manitoba  
12 Hydro's costs, isn't it?

13 MR. PELINO COLAIACOVO: I think  
14 Manitoba Hydro's customers will have been -- as long  
15 as the debt/equity ratio is lower than a hundred  
16 percent, then it -- it means that Manitoba Hydro  
17 ratepayers have been covering the costs of -- of the  
18 system in some sense of the word. The -- how much  
19 below a hundred percent the -- the ratio is requires  
20 more questions than just that one.

21 MR. MATTHEW GHIKAS: Okay. Well,  
22 maybe I'll put it this way. Would you agree that a  
23 rising equity ratio typically suggests adequate cost  
24 recovery in rates?

25 MR. PELINO COLAIACOVO: A rising

1 equity ratio means that customers are contributing  
2 enough to the Utility -- well, what it means is that  
3 they are contributing more than the last -- the  
4 previous year's ratio of capital expenditures, minus  
5 depreciation, and -- and so the ratio is changing. A  
6 -- a pure cost-recovery utility, the -- the formulas  
7 are a little bit opaque.

8 MR. MATTHEW GHIKAS: And the converse  
9 is also true?

10 MR. PELINO COLAIACOVO: Yes.

11

12 (BRIEF PAUSE)

13

14 MR. MATTHEW GHIKAS: Now, cash flow  
15 includes interest charges, correct?

16 MR. PELINO COLAIACOVO: Yes, it does.

17 MR. MATTHEW GHIKAS: And so it's  
18 significantly influenced by capital structure?

19 MR. PELINO COLAIACOVO: Yes, it is.

20 MR. MATTHEW GHIKAS: And you'd agree  
21 with me that there is no one (1) single metric that  
22 capital markets look at, and that rating agencies look  
23 at when they're assessing self-supporting status?

24 MR. PELINO COLAIACOVO: In ord -- as  
25 I'd mentioned earlier, in order to calculate cash



1 flow, you have to look at the whole set of financial  
2 statements, particularly in order to -- to come up  
3 with a forward estimate of what cash flow is going to  
4 be, you have to look at the whole financial  
5 statements, as well as the regulatory environment, and  
6 -- and the business. And if you look at the criteria  
7 that rating agencies use in their analysis, they talk  
8 about all of these different factors.

9 MR. MATTHEW GHIKAS: They're also  
10 interested not just in whether the -- whether the cash  
11 flow is sufficient today, but the risk to that cash  
12 flow going forward, aren't they?

13 MR. PELINO COLAIACOVO: That's  
14 correct.

15

16 (BRIEF PAUSE)

17

18 MR. MATTHEW GHIKAS: Now, one (1) of  
19 the things that -- so I should -- I should back up.  
20 And you -- you consider, then, that cash flow is the  
21 primary test for self-supporting in the markets?

22 MR. PELINO COLAIACOVO: I believe  
23 that's what both DBRS and Moody say, that their  
24 forward estimates of cash flows are the critical part  
25 of the test because if, in their view, if Manitoba

1 Hydro is not -- does not have sufficient cash flow to  
2 cover its costs plus interest, then it will not be  
3 considered self-supporting.

4

5

(BRIEF PAUSE)

6

7

MR. MATTHEW GHIKAS: Now...

8

9

(BRIEF PAUSE)

10

11

MR. MATTHEW GHIKAS: The capital

12

markets also look at business risks, right?

13

MR. PELINO COLAIACOVO: Absolutely.

14

MR. MATTHEW GHIKAS: They'll be

15

looking, for example, for a deterioration in export

16

revenues?

17

MR. PELINO COLAIACOVO: That's

18

correct.

19

MR. MATTHEW GHIKAS: And they'd be

20

looking for potential increases in capital costs?

21

MR. PELINO COLAIACOVO: That's

22

correct.

23

MR. MATTHEW GHIKAS: And they would be

24

looking for declining domestic load?

25

MR. PELINO COLAIACOVO: That's

1 correct.

2 MR. MATTHEW GHIKAS: And a pattern of  
3 those things is something that they would take notice  
4 of?

5 MR. PELINO COLAIACOVO: They would,  
6 and in particular, they would want to understand  
7 whether there is any response to those things.

8 MR. MATTHEW GHIKAS: Just in terms of  
9 the -- the basics, here, you -- you consider it to be  
10 important to ensure that Manitoba Hydro does not  
11 weaken or harm the creditworthiness of the Province of  
12 Manitoba?

13 MR. PELINO COLAIACOVO: Yes, I think  
14 that's important.

15 MR. MATTHEW GHIKAS: And you  
16 understand that Manitoba Hydro's debt represents a  
17 significant portion of the provincial debt?

18 MR. PELINO COLAIACOVO: Yes, it does.

19 MR. MATTHEW GHIKAS: And so  
20 information about Manitoba Hydro is critical to any  
21 potential bond buyer's view of Manitoba Hydro, of  
22 Manitoba -- Province of Manitoba?

23 MR. PELINO COLAIACOVO: I think there  
24 is an understanding that while the Province of  
25 Manitoba has a significant number of bonds

1 outstanding, a significant portion of all of that debt  
2 outstanding is actually the responsibility of Manitoba  
3 Hydro, and -- and they understand that difference.  
4 It's reported quite widely.

5 MR. MATTHEW GHIKAS: And Manitoba  
6 Hydro's ability to make good on the terms and  
7 conditions of its bonds form a significant part of the  
8 story for all Manitoba bond issuances, correct?

9 MR. PELINO COLAIACOVO: I think that's  
10 true. The -- the amount of Manitoba debt that is, for  
11 better or worse, understood to actually be Manitoba  
12 Hydro's debt is an important consideration.

13 MR. MATTHEW GHIKAS: And in choosing a  
14 rate path, project -- protecting and preserving the  
15 credit of the Province must be a priority?

16 MR. PELINO COLAIACOVO: I think that -  
17 - well, in all utility rate-making, regulators are  
18 more or less concerned about protecting the interests  
19 of debt holders. Some regulators prat -- place a  
20 greater emphasis on protecting debt holders, and some  
21 regulators put a lesser emphasis on protecting debt  
22 holders.

23 The capital markets have a pretty  
24 sophisticated understanding comparing one (1)  
25 regulator to another regulator. Some regulatory

1 regimes favour debt. Some regulatory regimes favour  
2 equity. It -- it's an understanding that market  
3 participants have.

4                   Where -- in a place like Manitoba,  
5 where debt is supported by government, it's also  
6 understood, and, you know, the -- the capital markets  
7 want to understand how the regulation is set up and  
8 how the regulator behaves in relation to protecting  
9 debt holders.

10                   MR. MATTHEW GHIKAS:     So, Mr.  
11 Colaiacovo, my question was, I think, simpler than  
12 that, and the words should sound familiar to you, sir.  
13 In choosing a rate path, protecting and preserving the  
14 credit of the Province must be a priority, right?

15                   MR. PELINO COLAIACOVO:     Yes.

16                   MR. MATTHEW GHIKAS:     And the key to  
17 preserving the credit of the Province is that Manitoba  
18 Hydro is viewed as self-supporting?

19                   MR. PELINO COLAIACOVO:     That's  
20 correct.

21                   MR. MATTHEW GHIKAS:     And being  
22 perceived as no longer self-supporting would  
23 ultimately affect the government of Manitoba's access  
24 to capital markets and its ability to raise capital in  
25 the debt markets, wouldn't it?

1 MR. PELINO COLAIACOVO: If Manitoba  
2 Hydro were no longer perceived as self-supporting by  
3 the capital markets, yes, it would have a consequence  
4 for Manitoba.

5 MR. MATTHEW GHIKAS: All right. And  
6 once -- I'd suggest to you that once the perception of  
7 Manitoba Hydro changes with respect to being self-  
8 supporting, it would take time and effort to res -- to  
9 reverse the views of analysts about the financial  
10 nature of the Corporation?

11 MR. PELINO COLAIACOVO: I believe  
12 those words sound familiar to me because I wrote them  
13 in the NFAT. And yes, that's true.

14 MR. MATTHEW GHIKAS: You've been doing  
15 your background reading. That's good. And the -- the  
16 difficulty of retaining self-supporting status is also  
17 an appropriate consideration for the Board, isn't it?

18 MR. PELINO COLAIACOVO: Yes. And --  
19 and to be clear, I wrote those comments in the context  
20 of analyzing the potential effects of a severe and  
21 prolonged drought, and what might happen if in  
22 response to a severe and prolonged drought, rates were  
23 not raised, and cash flows not improved. And so the  
24 view formed that the Company was no longer self-  
25 supporting.

1 MR. MATTHEW GHIKAS: Now, sir, I'd  
2 suggest that if the Board was to wait until credit  
3 agencies were signalling an issue with Manitoba  
4 Hydro's self-supporting status, it could well be too  
5 late, couldn't it?

6 MR. PELINO COLAIACOVO: I -- I think  
7 it would be entirely possible that if circumstances  
8 were allowed to become so negative after prolonged and  
9 severe drought and limited policy and rate response,  
10 that, yes, it would -- once a perception changes, it  
11 becomes difficult to reverse that perception.  
12 However, even in the face of a drought that happened  
13 in the past in the early 2000's, that perception did  
14 not change overnight, and there's also no evidence  
15 that the perception has changed now.

16 MR. MATTHEW GHIKAS: Okay. Let me --  
17 let me back up. I'm not talking about a drought,  
18 here. I'm talking more generally, and I'm simply  
19 suggesting to you that if the Board was to wait for  
20 the credit agencies to say, We're concerned that  
21 there's no longer going to be a self-supported debt,  
22 that could be too late, because they're not the canary  
23 in the mine, are they? The markets act before, as you  
24 said, correct?

25 MR. PELINO COLAIACOVO: Yes. And --

1 and I think that's why, in my recommendation, I  
2 suggested, amongst other things, communicating to the  
3 capital markets directly. The implementation of rules  
4 tests on whether a level of reserves was reasonable or  
5 not, because I do think all of those things are  
6 important, and I think sending messages and reassuring  
7 capital markets are important.

8 MR. MATTHEW GHIKAS: And as you  
9 indicated, agency reports are only issued  
10 periodically?

11 MR. PELINO COLAIACOVO: That's  
12 correct.

13 MR. MATTHEW GHIKAS: They often occur  
14 after an event?

15 MR. PELINO COLAIACOVO: That's  
16 correct.

17 MR. MATTHEW GHIKAS: And  
18 sophisticated investors do their own analysis in real-  
19 time, don't they?

20 MR. PELINO COLAIACOVO: That's  
21 correct.

22

23 (BRIEF PAUSE)

24

25 MR. MATTHEW GHIKAS: And changes in



1 bond prices will often precede announcements of  
2 opinions by credit -- credit-rating agencies rather  
3 than follow them?

4 MR. PELINO COLAIACOVO: They do.

5

6 (BRIEF PAUSE)

7

8 MR. MATTHEW GHIKAS: Now, as you  
9 indicated in your slide deck, in dealing with the  
10 market, it's all about confidence and expectations.  
11 And so I want to look at those in the context of your  
12 comment in the NFAT IR that we were looking at, the  
13 CAC/MPA-13, which is that the critical issue is the  
14 magnitude of the outstanding debt. So I want to talk  
15 about the magnitude of the debt for a moment, okay?

16 All right. Now, I put the Business  
17 Council IR to you, and it had a quote in it about the  
18 -- the challenge of the leverage being the -- the  
19 number 1 challenge for DBRS, correct?

20 MR. PELINO COLAIACOVO: Yes.

21 MR. MATTHEW GHIKAS: And you'd agree  
22 with me that identifying something as a challenge, in  
23 this case, high leverage, is only worth mentioning if  
24 the challenge would affect the people who are reading  
25 your report?

1 MR. PELINO COLAIACOVO: I think that's  
2 fair.

3 MR. MATTHEW GHIKAS: And you'd agree  
4 with me that the primary audience of the rating  
5 reports is the capital markets who are lending to the  
6 Province of Manitoba?

7 MR. PELINO COLAIACOVO: That's  
8 correct.

9 MR. MATTHEW GHIKAS: Now the second --  
10 perhaps we can go back to the book of documents, the  
11 DBRS report, which is Tab 7, and just look at the  
12 second page of that. Under 'Rating considerations,  
13 challenges'.

14 So there you see on the right-hand  
15 side, the high leverage that we've just talked about.  
16 And then you see the second one is -- the second  
17 challenge is that the Utility is currently undergoing  
18 a period of substantial Capex, and at the end, you  
19 say, As such -- or sorry, DBRS says:

20 "As such, average Capex for the  
21 medium-term may continue to climb  
22 and further pressure the already  
23 high debt levels."

24 Do you see that?

25 MR. PELINO COLAIACOVO: I do.

1 MR. MATTHEW GHIKAS: Now, Moody's also  
2 cites debt levels as a concern, doesn't it?

3 MR. PELINO COLAIACOVO: Yes, they do.

4

5 (BRIEF PAUSE)

6

7 MR. MATTHEW GHIKAS: And they're --  
8 they're saying that in the context of it putting  
9 growing pressure on the Province's rating, since it  
10 raises the contingent liability of the Province and  
11 increases the risk that Manitoba Hydro could require a  
12 capital injection or other support from the Province,  
13 correct?

14 MR. PELINO COLAIACOVO: That's  
15 correct.

16 MR. MATTHEW GHIKAS: S&P also cited  
17 the significant debt load of Manitoba Hydro as a  
18 reason for taking rating action?

19 MR. PELINO COLAIACOVO: They did.

20 MR. MATTHEW GHIKAS: And it's high and  
21 rising leverage, correct?

22 MR. PELINO COLAIACOVO: I -- I cannot  
23 speak to whether that was the reason for their rating  
24 action or not. They mentioned a number of factors  
25 that contributed to their rating action.

1 MR. MATTHEW GHIKAS: Well, in your  
2 report, you quote something in -- on page 32 of your  
3 report, line 22, you say, "In its rating action six  
4 (6) months later, however, S&P makes the statement  
5 about:

6 "Significant debt on lend to Man --  
7 to the MHEB, which we consider -- we  
8 no longer consider self-supporting,  
9 mainly due to its high and rising  
10 leverage."

11 MR. PELINO COLAIACOVO: Right.

12 MR. MATTHEW GHIKAS: So that's what  
13 they say?

14 MR. PELINO COLAIACOVO: That's what  
15 they said. But my only quest -- my only issue was the  
16 rating action was a rating action on the Province of  
17 Manitoba, and in that rating's report on the Province  
18 of Manitoba, they cite this, and they also cite  
19 several other factors as leading to that rating  
20 action. So how much of a role Manitoba Hydro had in  
21 that rating action, I -- I don't think there's any way  
22 for us to comment on.

23 MR. MATTHEW GHIKAS: Okay. So,  
24 irrespective of whether you agree or disagree with the  
25 basis for their rating action, and whether it's

1 legitimate or not, they're citing high and rising  
2 leverage as a concern?

3 MR. PELINO COLAIACOVO: Yes.

4 MR. MATTHEW GHIKAS: And in your  
5 report, with respect to that S&P rating, you've  
6 essentially surmised that the unfavourable -- or the  
7 downgrade-based -- and the change in the self-  
8 supporting status test was possibly just a change in  
9 key personnel?

10 MR. PELINO COLAIACOVO: It's one (1)  
11 possibility.

12 MR. MATTHEW GHIKAS: But you have no  
13 knowledge of that?

14 MR. PELINO COLAIACOVO: Well, they did  
15 change the personnel who were involved in the process.

16 MR. MATTHEW GHIKAS: Do you have no  
17 reason -- you have no basis to think that that is the  
18 reason why the -- the test changed? You're just --  
19 you're just hypothesizing?

20 MR. PELINO COLAIACOVO: Yes.

21 MR. MATTHEW GHIKAS: And S&P is one  
22 (1) of the largest rating agencies?

23 MR. PELINO COLAIACOVO: It is.

24 MR. MATTHEW GHIKAS: It's well-  
25 established and credible?

1 MR. PELINO COLAIACOVO: Absolutely.

2 MR. MATTHEW GHIKAS: Now, at page 32,  
3 if we can go to page 32 of your report, line 35, you -  
4 - you actually suggest that S&P has misapplied its own  
5 basic criteria for credit ratings. Do you see that  
6 there?

7 MR. PELINO COLAIACOVO: I do.

8 MR. MATTHEW GHIKAS: And then you go  
9 on to quote some of the methodology on the next page,  
10 right?

11 MR. PELINO COLAIACOVO: That's  
12 correct.

13 MR. MATTHEW GHIKAS: And in -- in your  
14 view, looking at this methodology would help give us  
15 an understanding or a more reasonable assessment of  
16 what self-supporting tests should be?

17 MR. PELINO COLAIACOVO: Yeah. So I  
18 think it's important to understand that both S&P and  
19 Moody's have ratings criteria in the United States.  
20 Well, three (3) different ratings criteria, at least,  
21 one (1) for general corporates, one (1) for investor-  
22 owned utilities, and one (1) for public power  
23 utilities. And the criteria for public power  
24 utilities are similar to the criteria that used to be  
25 applied by S&P in Canada to provincial utilities,

1 which they have ceased to utilize.

2                   They made clear in their ratings report  
3 in 2016 that they were adopting a different standard,  
4 and not -- not judging a -- a provincial utility as  
5 self-supporting unless it met the general criteria of  
6 an investor-owned utility. That's not what they do in  
7 the United States, and not what they did previously in  
8 Canada. Moody's continues to apply a standard in  
9 Canada which is much more similar to the standard  
10 that's applied in the United States to public power  
11 utilities.

12                   MR. MATTHEW GHIKAS:     So just in terms  
13 of sti -- sticking with why you're talking about this  
14 in your report, you're talking about this general  
15 corporate methodology because you believe that the  
16 considerations S&P has discussed there is -- are more  
17 reflective of what the markets would look at in terms  
18 of whether something is self-supporting?

19                   MR. PELINO COLAIACOVO:   Yes. I think  
20 the markets had a very good understanding about what  
21 S&P meant previously when they had the same policy on  
22 this issue as Moody's and DBRS. They changed that  
23 policy in 2016. It did not appear to have any impact  
24 in the markets when they changed that policy. They  
25 were not followed by Moody's and DBRS. They made that

1 change in isolation.

2 And I dwelt on this topic in the report  
3 because Manitoba Hydro had focused on this topic in  
4 its application evidence, and so I felt it was  
5 necessary to respond.

6 MR. MATTHEW GHIKAS: Okay. And so  
7 similarly, you would think, in your view, it would be  
8 appropriate when considering what the market would  
9 think about self-supporting to look at the general  
10 methodologies of DBRS and Moody's as well?

11 MR. PELINO COLAIACOVO: Yes.

12 MR. MATTHEW GHIKAS: Now, in terms of  
13 what S&P says here, you have focused in on and  
14 underlined in the paragraph 12:

15 "Cash flow to leverage analysis  
16 determines a company's financial  
17 risk profile assessment."

18 Right?

19 MR. PELINO COLAIACOVO: That's  
20 correct.

21 MR. MATTHEW GHIKAS: And you'd agree  
22 with me that in a cash flow to leverage ratio  
23 analysis, there's actually two (2) variables. One (1)  
24 is cash flow, and one (1) is leverage?

25 MR. PELINO COLAIACOVO: That's



1 correct.

2 MR. MATTHEW GHIKAS: And leverage is  
3 the amount of debt?

4 MR. PELINO COLAIACOVO: That's  
5 correct.

6 MR. MATTHEW GHIKAS: And high and  
7 rising leverage would affect that metric, wouldn't it?

8 MR. PELINO COLAIACOVO: Yes. In order  
9 to have the same cash flow to leverage ratio if you  
10 had rising leverage, you would also need to have  
11 rising cash flow, otherwise that metric deteriorates.

12 MR. MATTHEW GHIKAS: Right. The  
13 higher the leverage or debt on the balance sheet,  
14 other things being equal, the metric deteriorates?

15 MR. PELINO COLAIACOVO: Correct.

16 MR. MATTHEW GHIKAS: Now, you go on to  
17 line 21 there, where you say:

18 "S&P further defined seven (7) --  
19 seven (7) metrics that it focuses on  
20 with respect to cash flow. Note the  
21 first two (2) are the primary  
22 metrics, and the other five (5) are  
23 secondary, the sheer number of which  
24 provides an illustration of the  
25 level of focus on cash flow in S&P's

1 typical financial risk analysis.

2 These are..."

3 And then you set them out?

4 MR. PELINO COLAIACOVO: Yes.

5 MR. MATTHEW GHIKAS: So the first two  
6 (2) are the primary ones, right?

7 MR. PELINO COLAIACOVO: Yes.

8 MR. MATTHEW GHIKAS: And both of those  
9 metrics are a function of debt?

10 MR. PELINO COLAIACOVO: They are.

11 MR. MATTHEW GHIKAS: And in the first  
12 ratio, the higher the debt, the ratio declines, other  
13 things equal?

14 MR. PELINO COLAIACOVO: That's  
15 correct.

16 MR. MATTHEW GHIKAS: And in the second  
17 ratio, as the debt increases, the ratio increases,  
18 other things being equal?

19 MR. PELINO COLAIACOVO: That's  
20 correct.

21 MR. MATTHEW GHIKAS: And if we look at  
22 the secondary ones, we see the first three (3) of  
23 those secondary ones, they also have the amount of  
24 issued debt as a variable?

25 MR. PELINO COLAIACOVO: That's

1 correct.

2 MR. MATTHEW GHIKAS: And the amount of  
3 issued debt as a result has a direct impact on the  
4 ratios, doesn't it?

5 MR. PELINO COLAIACOVO: It does.

6 MR. MATTHEW GHIKAS: And as debt  
7 rises, all of those metrics will decline, other things  
8 being equal?

9 MR. PELINO COLAIACOVO: That's  
10 correct.

11 MR. MATTHEW GHIKAS: And EBITDA to  
12 interest, that is not one (1) of the two (2) primary  
13 metrics that's last on the list, correct?

14 MR. PELINO COLAIACOVO: That's  
15 correct.

16 MR. MATTHEW GHIKAS: And you'd agree  
17 with me that increasing debt increases the risk of  
18 cash flow distress?

19 MR. PELINO COLAIACOVO: Other things  
20 being equal.

21 MR. MATTHEW GHIKAS: The more debt you  
22 have, the more exposure to interest rate changes,  
23 right?

24 MR. PELINO COLAIACOVO: Yes.

25 MR. MATTHEW GHIKAS: And that can

1 create cash flow distress?

2 MR. PELINO COLAIACOVO: Other things  
3 being equal, unless cash will respond appropriately.

4 MR. MATTHEW GHIKAS: Now, on page 31  
5 of yours, and you've referred to -- you've referred to  
6 this in speaking over the last day or so. There's a  
7 diagram of bond spreads, and you've indicated on the  
8 right where the S&P downgrades occurred.

9 The point that you're making is that  
10 even though they downgraded, the bond spread was also  
11 declining at the same time, correct?

12 MR. PELINO COLAIACOVO: Yes.

13 MR. MATTHEW GHIKAS: Okay. Now, you  
14 didn't put on there Moody's downgrade, did you?

15 MR. PELINO COLAIACOVO: No.

16 MR. MATTHEW GHIKAS: And Moody's  
17 downgraded in July 2015?

18 MR. PELINO COLAIACOVO: That's  
19 correct.

20 MR. MATTHEW GHIKAS: So if we were to  
21 just make a little note where that is, you'd agree  
22 with me that the spreads are rising during that  
23 period?

24 MR. PELINO COLAIACOVO: M-hm. And  
25 then they -- the -- the rising spreads, I believe,

1 actually predated the Moody's -- Moody's downgrades a  
2 little bit, but yes, they're in that -- in that zone.

3 MR. MATTHEW GHIKAS: So you'd agree  
4 with me that many things can affect bond spreads that  
5 have nothing to do with Manitoba Hydro?

6 MR. PELINO COLAIACOVO: I -- I think  
7 that's true.

8 MR. MATTHEW GHIKAS: And you can't  
9 speak to what the spreads otherwise would have been  
10 doing in the absence of the S&P downgrade, can you?

11 MR. PELINO COLAIACOVO: I don't think  
12 anyone can.

13 MR. MATTHEW GHIKAS: Right. Mr.  
14 Chairman, is there a convenient point do -- that you  
15 want to break at? I'm con -- happy to -- I'll just  
16 keep going until you say so.

17 THE CHAIRPERSON: Well, we were -- I  
18 was looking at anywhere between quarter to 3:00 and  
19 three o'clock. What I didn't want to do is I didn't  
20 want to have a break that would disrupt you in --

21 MR. MATTHEW GHIKAS: Okay.

22 THE CHAIRPERSON: -- your cross-  
23 examination, so.

24

25 (BRIEF PAUSE)

1 THE CHAIRPERSON: Boy, five (5) weeks  
2 in, and I'm still admonished. I didn't want to -- to  
3 interrupt your cross-examination, so any point in the  
4 next fifteen (15) minutes where it's a good place to  
5 break.

6 I have you with a maximum time till  
7 4:45. So I don't know if you'll use the full time,  
8 but any -- any time between now and three o'clock  
9 would be just fine to break.

10 MR. MATTHEW GHIKAS: Okay. Thank you.

11

12 CONTINUED BY MR. MATTHEW GHIKAS:

13 MR. MATTHEW GHIKAS: All right. One  
14 (1) of the cash flow metrics that you have cited in  
15 your report is cash flow -- sorry, is debt to cash  
16 flow, right?

17 MR. PELINO COLAIACOVO: Correct.

18 MR. MATTHEW GHIKAS: And EBITDA is --  
19 or EBITDA is a proxy for cash flow?

20 MR. PELINO COLAIACOVO: So typically,  
21 EBITDA metrics are based on the income statement.  
22 Cash flow from operations metrics are based from the  
23 cash flow statement.

24 They are somewhat correlated, but there  
25 are certain technical differences between them to do

1 with regulatory movements, and -- and certain things  
2 that are accrued or not accrued. I believe I  
3 mentioned -- I explained some of this in the report.  
4 There are some differences between accrual accounting  
5 and cash accounting, and -- and so often, you know, an  
6 analyst will look at both, because sometimes there are  
7 differences between those things.

8 MR. MATTHEW GHIKAS: Okay. But one  
9 (1) such metric that would fall in that basket is the  
10 EBITDA to -- the debt to EBITDA?

11 MR. PELINO COLAIACOVO: Right.

12 MR. MATTHEW GHIKAS: And that's one  
13 (1) of S&P's primary metrics that we just saw?

14 MR. PELINO COLAIACOVO: Yes.

15 MR. MATTHEW GHIKAS: So, if we look at  
16 the S&P methodology in a little more detail, the --  
17 the S&P methodology was attached, and it's in Tab 9 of  
18 the book. It was attached to IR -- MIPUG Exhibit 7,  
19 IR MIPUG to Manitoba Hydro 1-8. And there were a  
20 number of attachments to that. I didn't attach all of  
21 the attachments, because S&P is -- has -- well,  
22 there's a lot to say, so I've left out those pages,  
23 but what we need is actually quoted in the IR itself.  
24 And so it's table 18 there.

25 You'd agree with me that table 18 that

1 we're looking at, here, that's what you were referring  
2 to? That's in the document you were referring to when  
3 you were talking about S&P's methodology?

4 MR. PELINO COLAIACOVO: That's right.

5 MR. MATTHEW GHIKAS: Okay. And you'll  
6 see in the -- along the top there, there's core ratio,  
7 supplementary ratio, supplementary payback ratios.  
8 Where -- I'm focused on one (1) of the core ratios,  
9 which is the debt to EBITDA?

10 MR. PELINO COLAIACOVO: Yes.

11 MR. MATTHEW GHIKAS: Okay. So if --  
12 just so we're on the same page in terms of how to read  
13 this metric, a lower ratio on this one is better, and  
14 a higher one is less desirable?

15 MR. PELINO COLAIACOVO: That's  
16 correct. Now I would just jump in, because as you  
17 mentioned, S&P has lots of different versions of this,  
18 and in fact they do. This is the general corporate  
19 methodology. The methodology for utilities is going  
20 to be the same generic structure, but it's going to  
21 have different numbers in all of those boxes. And in  
22 the United States, they have a third one, which is  
23 public power utilities, which again has different  
24 numbers in each of those boxes, even though the  
25 methodology is similarly structured and organized.



1 MR. MATTHEW GHIKAS: Okay. And over  
2 on the left-hand side, sir, you see the -- S&P in this  
3 calls three point five (3.5) to four point five (4.5)  
4 significant?

5 MR. PELINO COLAIACOVO: Yes.

6 MR. MATTHEW GHIKAS: And then they  
7 call four point five (4.5) to five point five (5.5)  
8 aggressive?

9 MR. PELINO COLAIACOVO: Yes.

10 MR. MATTHEW GHIKAS: And they call  
11 anything over five point five (5.5) times as highly  
12 leveraged?

13 MR. PELINO COLAIACOVO: Correct.

14 MR. MATTHEW GHIKAS: And so these  
15 bands are essentially going up by one (1) time, give  
16 or take?

17 MR. PELINO COLAIACOVO: Yes.

18 MR. MATTHEW GHIKAS: Now, we don't  
19 have to go to Mr. McCallum's opening presentation, but  
20 he -- he talks about what these ratios are for  
21 Manitoba Hydro at slide 56. And we don't -- we don't  
22 have to turn there. I'm not going to ask you to  
23 confirm the calculations.

24 What I'd -- what I'd just like to ask  
25 is that if the Corporation's debt to EBITDA metric has

1 increased from five (5) times in 2006 to twelve (12)  
2 times in 2016, that would represent a significant  
3 deterioration in that metric?

4 MR. PELINO COLAIACOVO: I'm sorry, if  
5 it's fallen from where to where?

6 MR. MATTHEW GHIKAS: If it's -- if  
7 it's increased --

8 MR. PELINO COLAIACOVO: Sorry.

9 MR. MATTHEW GHIKAS: -- from five (5)  
10 times to twelve (12) times in 2016 -- so it went from  
11 five (5) times in 2006 to twelve (12) times in 2016 --

12 MR. PELINO COLAIACOVO: Yes.

13 MR. MATTHEW GHIKAS: -- that would  
14 represent a significant deterioration in that metric,  
15 wouldn't it?

16 MR. PELINO COLAIACOVO: And -- and  
17 it's a signif -- significant deterioration which is  
18 entirely consistent with the capital spending of the  
19 Company.

20 MR. MATTHEW GHIKAS: And if that  
21 metric was anticipated to go from twelve (12) times in  
22 2016 up to thirteen (13) times in the next few years,  
23 that would represent further deterioration of the  
24 metric?

25 MR. PELINO COLAIACOVO: That's

1 correct. And -- and in my presentation, when talking  
2 about major capital investments, I did point out that  
3 during the course of a period of major capital  
4 investments, particularly in a pure cost recovery  
5 company, all of these metrics are expected to  
6 deteriorate, and in fact, they have been deteriorating  
7 in Manitoba Hydro.

8 MR. MATTHEW GHIKAS: And in your -- in  
9 your testimony yesterday, in response to a question  
10 from member Kapitany -- I hope I pronounced your name  
11 right -- there was -- you indicated -- you referred  
12 back to the early 2000s. 2003, you believed went --  
13 that was an extremely short, sharp shock in that  
14 period in the second lowest water year ever. Do you  
15 recall that generally?

16 MR. PELINO COLAIACOVO: Yes.

17 MR. MATTHEW GHIKAS: Okay. And you  
18 indicated that Manitoba -- Manitoba Hydro's cash flow  
19 plummeted through the floor?

20 MR. PELINO COLAIACOVO: That's  
21 correct.

22 MR. MATTHEW GHIKAS: And were you  
23 aware that during that period, this metric was only at  
24 nineteen (19) times?

25 MR. PELINO COLAIACOVO: That may well

1 -- very well be the case.

2 MR. MATTHEW GHIKAS: All right. Now,  
3 at Tab -- we can put that aside for now. At Tab --  
4 sorry, at -- in MPA report on page 3, please.

5

6 (BRIEF PAUSE)

7

8 MR. MATTHEW GHIKAS: I'm making you  
9 work today, Diana. I'm sorry.

10

11 (BRIEF PAUSE)

12

13 MR. MATTHEW GHIKAS: All right. And  
14 right at the end of the page, you indicate, line 35,  
15 it's apparent from reading various financial market  
16 reports that a primary focus is on the suff -- the  
17 expected sufficiency of cash flows to satisfy debt  
18 obligations. While the capital structure -- structure  
19 of a prospective borrower like Manitoba Hydro is  
20 important, it appears to be a secondary issue for the  
21 capital markets.

22 Now, if you can -- you've included in  
23 your report as an appendix the Fitch rating  
24 methodology, correct?

25 MR. PELINO COLAIACOVO: From -- from

1 the United States, yes.

2 MR. MATTHEW GHIKAS: From the United  
3 States, yes. And if you could turn to page 94 of the  
4 -- of the report, of your -- your evidence exhibit.  
5 So this is the beginning of Appendix E. And you'll  
6 see you're referencing Appendix E, and you say in your  
7 first bullet, there:

8 "The Fitch credit rating criteria  
9 for US power companies (highlights  
10 that cash flow sufficiency and  
11 ratings flexibility to maintain that  
12 sufficiency is critical to  
13 ratings)."

14 Do you see that?

15 MR. PELINO COLAIACOVO: Yes.

16 MR. MATTHEW GHIKAS: And you've --  
17 you've included this and you've talked about these  
18 public power utilities like Bonneville, and Long  
19 Island, and others as being more similar to Manitoba  
20 Hydro than some of the provincial Crown utilities in  
21 Canada, correct?

22 MR. PELINO COLAIACOVO: I think that's  
23 correct, yes.

24 MR. MATTHEW GHIKAS: And -- and that's  
25 partly why you've included this?

1 MR. PELINO COLAIACOVO: That's  
2 correct.

3 MR. MATTHEW GHIKAS: Now, if...

4

5 (BRIEF PAUSE)

6

7 MR. MATTHEW GHIKAS: If we turn to  
8 page 101 of your report, under "financial  
9 performance," I'll just read that to you. "Fitch's  
10 analysis of standard" -- sorry:

11 "Fitch's analysis of financial  
12 metrics focuses principally on three  
13 (3) core areas: Cash flow,  
14 liquidity, and capital structure.  
15 No single financial ratio stands  
16 apart from the rest. On the  
17 contrary, the ratios are examined  
18 together, providing a context for  
19 utilities' financial position that  
20 informs a complete analysis."

21 Do you see that?

22 MR. PELINO COLAIACOVO: I do.

23 MR. MATTHEW GHIKAS: Is that the  
24 passage that you were relying on when you were saying  
25 that the rating agencies treated capital structure as

1 secondary.

2 MR. PELINO COLAIACOVO: If you scroll  
3 down somewhat, I think they should at some point here  
4 have a description of their percentages of each  
5 different category that are included in their  
6 overall analysis. Let me find the...

7

8 (BRIEF PAUSE)

9

10 MR. PELINO COLAIACOVO: My apologies.  
11 They -- yeah. My apologies. There isn't -- they did  
12 -- it's not Fitch that has the convenient table that  
13 has the percentages. You actually have to read  
14 through all the material.

15 But -- and this is not helpful, because  
16 Moody's -- Moody's version of this document is not in  
17 the book, but in Moody's version of the document, they  
18 break down the same sorts of list of issues with  
19 different percentages for each of those, and the  
20 percentage for cash flow is considerably higher.

21 MR. MATTHEW GHIKAS: Okay. If we can  
22 go to page 116 of your report, then. We're still in  
23 the Fitch ratings.

24 MR. PELINO COLAIACOVO: Okay.

25 MR. MATTHEW GHIKAS: So there is a

1 table here called "attributes select financial metrics  
2 for retail systems." There is also another one, if we  
3 go back a couple of pages. On page 112, there's also  
4 one for wholesale systems, right?

5 Now, you'd agree with me that Manitoba  
6 Hydro is a mix of generation, transmission, and -- and  
7 distribution system?

8 MR. PELINO COLAIACOVO: Correct.

9 MR. MATTHEW GHIKAS: Okay. So they're  
10 kind of in between?

11 MR. PELINO COLAIACOVO: Yes.

12 MR. MATTHEW GHIKAS: Okay. So let's  
13 go back to the retail system, first of all. So if you  
14 -- on that retail system one, if you look in the lower  
15 right-hand corner under the equity capitalization,  
16 you'll see less than 30 percent equity is relatively  
17 low for retail systems, and may sit -- may suggest  
18 limited capacity for additional debt?

19 MR. PELINO COLAIACOVO: Correct.

20 MR. MATTHEW GHIKAS: And that's weaker  
21 for them?

22 MR. PELINO COLAIACOVO: Yes.

23 MR. MATTHEW GHIKAS: And we'll -- I'll  
24 take you to the other table in a minute. And -- so  
25 Manitoba Hydro is currently at eighteen (18), right?



1 MR. PELINO COLAIACOVO: Yes.

2 MR. MATTHEW GHIKAS: And it's set to  
3 decline from that?

4 MR. PELINO COLAIACOVO: Yes.

5 MR. MATTHEW GHIKAS: Okay. So let's  
6 look now at the middle column, debt to FADS. And if  
7 we look in the footnote, we see that FADS, funds  
8 available for debt service. Do you see that?

9 MR. PELINO COLAIACOVO: Yes.

10 MR. MATTHEW GHIKAS: Okay. And that's  
11 essentially EBITDA, isn't it?

12 MR. PELINO COLAIACOVO: Yes, it is.  
13 It's more -- yeah. It's either EBITDA, or cash flow  
14 from operations, depending on which exact metric  
15 you're going to use.

16 MR. MATTHEW GHIKAS: Okay. So this  
17 metric that they're putting the debt to FADS is a  
18 proxy that we can use more or less for the debt to  
19 EBITDA?

20 MR. PELINO COLAIACOVO: Correct.

21 MR. MATTHEW GHIKAS: Okay. And if we  
22 go to the weaker row, then, under that column, we see  
23 greater than eight (8) times debt with a suitable  
24 rationale can indicate deficient rate structure.

25 MR. PELINO COLAIACOVO: I -- I think

1 you meant without a suitable --

2 MR. MATTHEW GHIKAS: Sorry, without a  
3 suitable rationale can't indicate deficient rate  
4 structure?

5 MR. PELINO COLAIACOVO: Correct. And  
6 --

7 MR. MATTHEW GHIKAS: Right. So -- so  
8 you would expect that Fitch would be looking for a  
9 suitable rationale, for example, they had already been  
10 over eight (8) times for six (6) years.

11 MR. PELINO COLAIACOVO: And I think a  
12 suitable rationale is investment in a major capital  
13 program, and -- and that's what that is actually  
14 about.

15 MR. MATTHEW GHIKAS: And they would be  
16 looking for a rationale. Would you put it as the  
17 capital thing if the -- today it was a twelve (12)  
18 times and was going to get worse to thirteen (13)  
19 times?

20 MR. PELINO COLAIACOVO: Yeah, and --  
21 but they would expect that after the completion of the  
22 major capital expenditures, that would start to  
23 improve.

24 MR. MATTHEW GHIKAS: And I can short-  
25 circuit this, but in the wholesale, just to make sure

1 that we complete the record, here, if -- on page 112,  
2 it's -- the weaker capital structure is -- for a -- a  
3 purely wholesale system, is less than 10 percent  
4 equity is relatively low for a wholesale system and  
5 may suggest limited capacity for additional debt?

6 MR. PELINO COLAIACOVO: That's  
7 correct.

8 MR. MATTHEW GHIKAS: And greater than  
9 ten (10) times debt without a suitable rationale can  
10 indicate a deficient rate structure?

11 MR. PELINO COLAIACOVO: That's  
12 correct.

13 MR. MATTHEW GHIKAS: Or debt to FADS?

14 MR. PELINO COLAIACOVO: Yes.

15 MR. MATTHEW GHIKAS: So Manitoba Hydro  
16 is somewhere in the middle?

17 MR. PELINO COLAIACOVO: Yes.

18 MR. MATTHEW GHIKAS: All right. That  
19 would be a good time to -- to break, Mr. Chairman.

20 THE CHAIRPERSON: Okay. Sorry. Thank  
21 you. We'll -- we'll break until 3:10. Thank you.

22

23 --- Upon recessing at 2:57 p.m.

24 --- Upon resuming at 3:11 p.m.

25

1 THE CHAIRPERSON: Mr. Ghikas...?

2 MR. MATTHEW GHIKAS: Thank you, Mr.  
3 Chairman.

4

5 CONTINUED BY MR. MATTHEW GHIKAS:

6 MR. MATTHEW GHIKAS: Mr. Colaiacovo,  
7 just before the break, you referenced the Moody's  
8 methodology. You and I both have it but we can't put  
9 it on the record but if we were to look at page 5 of  
10 that.

11 You'd agree with me that adjusted debt  
12 service coverage debt ratio and liquidity on hand are  
13 all weighted equally in the Moody's methodology?

14 MR. PELINO COLAIACOVO: Yes. And in  
15 the Moody's methodology, all -- all three (3) are  
16 present in the methodology, but all of those financial  
17 metrics have a lower proportion of their total  
18 scorecard and the ability to raise rates and -- and in  
19 the regulatory regime that -- that supports ratemaking  
20 that has a higher note -- those issues have a higher  
21 proportion of their scorecard.

22 And as the -- the ability to raise  
23 rates in conjunction with costs is fundamentally about  
24 cash flows, that's why I -- I put an emphasis on cash  
25 flows as -- as opposed to the -- the debt ratio metric

1 which only appears as a fraction of one of the  
2 subcategories dealing with financial metrics.

3 MR. MATTHEW GHIKAS: So just to be  
4 clear on this, they do the same thing as Fitch does in  
5 terms of giving equal weighting to those factors?

6 MR. PELINO COLAIACOVO: Equal  
7 weighting within the financial metrics subcategory of  
8 their scorecard.

9 MR. MATTHEW GHIKAS: Correct. Now one  
10 (1) of the things you said in your presentation was  
11 that it's all about confidence and expectations when  
12 it comes to the market, right?

13 MR. PELINO COLAIACOVO: That's  
14 correct.

15 MR. MATTHEW GHIKAS: And you indicated  
16 that markets, slide 37, markets and -- like rules and  
17 track records, and are deeply suspicious of judgment  
18 and adjustments?

19 MR. PELINO COLAIACOVO: That's  
20 correct.

21 MR. MATTHEW GHIKAS: And as we have  
22 already gone through, rating agencies do cite the 75  
23 to 25 debt/equity rate -- target in their reports;  
24 right?

25 MR. PELINO COLAIACOVO: Yes, they do.

1 MR. MATTHEW GHIKAS: And you'd agree  
2 with me that after twenty-two (22) years of using the  
3 debt/equity ratio 75/25 that the markets would have  
4 come to develop some expectations about the ongoing  
5 use of that metric?

6 MR. PELINO COLAIACOVO: I think that's  
7 fair. I would point out that during those twenty-two  
8 (22) years, they've actually only achieved that metric  
9 in a small number of years.

10 MR. MATTHEW GHIKAS: And would you  
11 agree with me that abandoning that target would  
12 decrease certainty and predictability?

13 MR. PELINO COLAIACOVO: I think if the  
14 target was, to use your term, abandoned in favour of a  
15 different target, in favour of an explicit rule, then  
16 the net impact of that, in my view, would be positive  
17 because that target has been very loose over the past  
18 twenty-two (22) years. The target was developed in  
19 1995 when, in fact, the Company had 95 percent debt.  
20 It did achieve the 75 percent debt metric for a couple  
21 of years in the early 2010s, and since then, it has  
22 not achieved that metric, and it's -- it's going the  
23 other way in the context of a major capital  
24 expenditure.

25 So what exactly in that twenty-two (22)

1 year context of history does that 75 percent target  
2 actually mean? And -- and we saw that -- that target  
3 in the NFAT, the Company referred to the target, and  
4 provided scenarios where the target would be achieved  
5 in a twenty (20) year time span but actually didn't  
6 enunciate, you know, did -- did they have to meet that  
7 target under all scenarios? Was it only under the  
8 reference scenario? What would happen if the scenario  
9 was better than the reference scenario? There --  
10 there actually wasn't a lot of clarity.

11                   So, in my view, if the Board chose to  
12 adopt a much more clearer rule about how rates were to  
13 be developed in the future, then that actually might  
14 improve certainty as opposed to the -- the use of the  
15 20 -- the 75 percent target over the past twenty-two  
16 (22) years.

17                   MR. MATTHEW GHIKAS: They would like  
18 that new clear methodology provided it -- provided it  
19 protected them more as bondholders?

20                   MR. PELINO COLAIACOVO: I think the  
21 protection of bondholders is their primary concern,  
22 yes.

23                   MR. MATTHEW GHIKAS: All right. Now  
24 in your report on page 42, there's a discussion about  
25 modelling runs that -- that with respect to the rate

1 paths and drought scenarios and the like.

2                   And you make some observations starting  
3 at line 17 of page 42. And you go down -- and the one  
4 I'm interested in is the -- one at line 29 and 30. It  
5 says:

6                   "Interest coverage remains above  
7                   critical throughout -- throughout on  
8                   the 3.95 percent rate path. At the  
9                   P01 position EBITDA to interest plot  
10                  on the 3.95 percent rate path, the  
11                  ratio is never below 1. It should  
12                  be noted that a ratio of 1 means  
13                  that operating income is just  
14                  sufficient to cover finance expense  
15                  costs. In the parlance of Moody's  
16                  and DBRS, as long as Manitoba Hydro  
17                  is able to continue to cover all of  
18                  its costs, including operating costs  
19                  and interest, it will be regarded as  
20                  self-supporting and not a burden to  
21                  the province."

22                  And you go on from there. And you see  
23 towards the end of that paragraph, lines 8 and 9:

24                  "At the P50 posi -- position, the  
25                  1.8 target is exceeded in more than



1                   half the years, but not generally  
2                   until the 2020s."

3                   Now, the one (1) thing I want to focus  
4 on here, sir, is you've characterized EBITDA to  
5 interest of 1.0 times as the critical level.

6                   And the Board should not conclude from  
7 that, based on what we've talked about, that that is a  
8 bright line test for self-supporting; right?

9                   MR. PELINO COLAIACOVO:   No.  I think  
10 the -- the -- if you look at the words of -- of  
11 "self-supporting" that's what it means; that -- that  
12 you have to be able to cover those costs, including  
13 interest.

14                  But the test that the -- the -- the  
15 timeframe that the rating agencies are looking at is  
16 the future.  And so, given the fact that there are  
17 many variables affecting performance in the future,  
18 that is a minimum condition.  So, you know, you have  
19 to -- you have to have rates that satisfy a minimum  
20 condition.

21                  But as I mentioned earlier, that's not  
22 the only part of a rule that you should, you know,  
23 consider looking at in terms of rates.

24                  MR. MATTHEW GHIKAS:   Okay.  So -- just  
25 so that we're talking the same -- so that everybody's

1 on the same page here, a value of 1.0 times means that  
2 operating cash flows before interest charges would be  
3 equal to the interest charges, right?

4 MR. PELINO COLAIACOVO: That's  
5 correct. So, if you had that much operating cash  
6 flow, you would be covering all of your operating  
7 costs, plus interest which is what DBRS used in their  
8 definition of self-supporting.

9 MR. MATTHEW GHIKAS: And if -- if  
10 EBITDA to interest value of 1.0 times, there would be  
11 no funds left after paying interest charges, right?

12 MR. PELINO COLAIACOVO: That's right.  
13 So any capital expenditures that you would want to  
14 make would have to be made with 100 percent debt and  
15 if you paid for your capital expenditures with 100  
16 percent debt, then your debt ratio would rise.

17 MR. MATTHEW GHIKAS: And so there  
18 would be nothing to pay down debt principal?

19 MR. PELINO COLAIACOVO: That's  
20 correct.

21 MR. MATTHEW GHIKAS: And there'd be  
22 nothing to support investment in capital assets?

23 MR. PELINO COLAIACOVO: You would have  
24 to invest in capital assets using debt.

25 MR. MATTHEW GHIKAS: Okay. And if you

1 were to be operating at 1.0 times and couldn't finance  
2 any of your capital other than borrowing debt, you  
3 don't think bondholders would be concerned about  
4 unabated debt growth?

5 MR. PELINO COLAIACOVO: Well, I think  
6 in -- in that discussion, I'm talking about the P01  
7 position, right, which by definition is 1 percent of  
8 the time. So that's looking at the worst-case  
9 hydrology and saying, if you were to set rates such  
10 that your EBITDA to interest average over a five (5)  
11 year period in the P01 position was 1, then you would  
12 have nothing left over during that five (5) years to  
13 finance capital expenditures.

14 But you are in the worst possible  
15 scenario, so that -- that is the 1 percent scenario as  
16 opposed to a more typical scenario.

17 MR. MATTHEW GHIKAS: So the Utility,  
18 on a typical basis, annually has hundreds of millions  
19 of dollars of capital expenditures, right?

20 MR. PELINO COLAIACOVO: Correct.

21 MR. MATTHEW GHIKAS: And that includes  
22 expenditures that are nondiscretionary, right?

23 MR. PELINO COLAIACOVO: Correct.

24 MR. MATTHEW GHIKAS: Right.

25 Emergencies, for example, right?

1 MR. PELINO COLAIACOVO: Yes.

2 MR. MATTHEW GHIKAS: And capital  
3 investments that are necessary to serve new customers?

4 MR. PELINO COLAIACOVO: That's  
5 correct.

6 MR. MATTHEW GHIKAS: And so things  
7 like that can't be put off, can they?

8 MR. PELINO COLAIACOVO: No, but they  
9 can be financed with debt.

10 MR. MATTHEW GHIKAS: And are you --  
11 are you aware that Manitoba Hydro has to make annual  
12 mitigation and development payments?

13 MR. PELINO COLAIACOVO: Yes, I am.

14 MR. MATTHEW GHIKAS: And those  
15 mitigation and development costs are costs that are  
16 paid to communities adversely affected by past  
17 developments, right?

18 MR. PELINO COLAIACOVO: That's  
19 correct.

20 MR. MATTHEW GHIKAS: And Manitoba  
21 Hydro doesn't remove those payments from its EBITDA,  
22 does it?

23 MR. PELINO COLAIACOVO: No, which is  
24 one (1) of the reasons why I point out that I believe  
25 it was in an IR, that payments to Winnipeg and

1 payments for mitigation should be included when  
2 estimating how much cash flow is going to be required  
3 by Manitoba Hydro.

4 MR. MATTHEW GHIKAS: Right. So by  
5 definition they're going to need more than just EBITDA  
6 to -- well, they should be included in the EBITDA  
7 when you do the calculation?

8 MR. PELINO COLAIACOVO: Correct.

9 MR. MATTHEW GHIKAS: Okay. So that --  
10 that also alluded to the \$16 million payment to the  
11 city of Winnipeg?

12 MR. PELINO COLAIACOVO: That's right.

13 MR. MATTHEW GHIKAS: Okay.

14 MR. PELINO COLAIACOVO: Those are --  
15 those are payments that are not -- that are -- that  
16 are unique to Manitoba Hydro. They're not typical.  
17 Not every Utility has those kinds of payments but in  
18 Manitoba Hydro's case, those payments should be taken  
19 into account.

20 MR. MATTHEW GHIKAS: Now, on slide 33,  
21 you refer to 1.8 as a healthy margin. And you  
22 indicated also -- and you cited Moody's there at the  
23 bottom.

24 MR. PELINO COLAIACOVO: Yes.

25 MR. MATTHEW GHIKAS: As -- for public

1 power utilities 1.5 to 2.0 times interest coverage is  
2 consistent with an 'A' rating.

3 Do you see that?

4 MR. PELINO COLAIACOVO: Yes.

5 MR. MATTHEW GHIKAS: Now, would you  
6 agree with me that what Moody's is actually looking at  
7 when it sets out 1.5 to 2.0 times is debt -- adjusted  
8 debt service coverage not interest coverage?

9 MR. PELINO COLAIACOVO: Yes. But debt  
10 service coverage depends --

11 MR. MATTHEW GHIKAS: Includes  
12 principal payments, doesn't it?

13 MR. PELINO COLAIACOVO: Not always.  
14 It actually just depends on the arrangements of the  
15 Utility.

16 MR. MATTHEW GHIKAS: In common  
17 financial discourse debt service generally includes  
18 interest and principal, doesn't it?

19 MR. PELINO COLAIACOVO: So it depends  
20 on your financial arrangements. Debt service coverage  
21 ratio is a typical term but in some instances debt  
22 service coverage ratio refers only to interest and  
23 some instances it refers interest and principal.

24 MR. MATTHEW GHIKAS: If it's in -- if  
25 it's referring to interest and principal, you'd need

1 more cash flow to cover that, right?

2 MR. PELINO COLAIACOVO: Yes.

3 MR. MATTHEW GHIKAS: And so logically  
4 and EBITDA to interest alone would be higher than  
5 that?

6 MR. PELINO COLAIACOVO: So if you are  
7 talking about principal and interest, then you're  
8 assuming that you can't refinance the principal,  
9 right. And so in a -- in -- in a pure cost recovery  
10 environment, you're actually refinancing part of the  
11 principal through the depreciation that's included in  
12 your revenue requirement.

13 So, you're -- the -- the economics or  
14 the nomenclature is a little different depending on  
15 whether a general corporate, whether you're a Utility  
16 or pure cost recovery Utility.

17 So if -- if your capital base is  
18 actually shrinking then -- its debt service requires  
19 the retirement of principal. If your capital base is  
20 actually growing, you don't have to retire any  
21 principal. So it -- and in the case of Manitoba Hydro,  
22 its asset base is actually growing dramatically. So,  
23 you're not ever really retiring any principal anytime  
24 soon.

25 MR. MATTHEW GHIKAS: So this -- the

1 Moody's Investor Service that you've included there,  
2 that relates to US public power utilities --

3 MR. PELINO COLAIACOVO: Yes.

4 MR. MATTHEW GHIKAS: -- like  
5 Bonneville and others?

6 MR. PELINO COLAIACOVO: That's  
7 correct.

8 MR. MATTHEW GHIKAS: Okay, we'll come  
9 to those to see what they actually include in -- in  
10 their payments.

11 Now EBITDA to interest measure, that  
12 doesn't indicate whether a company's debt is  
13 increasing, right?

14 MR. PELINO COLAIACOVO: No.

15 MR. MATTHEW GHIKAS: In order to -- to  
16 know that, you'd have to know the other cash outlays  
17 that need to be supported to know whether Manitoba  
18 Hydro needs to borrow?

19 MR. PELINO COLAIACOVO: That's  
20 correct.

21 MR. MATTHEW GHIKAS: And there is no  
22 information captured in that metric about the size of  
23 the capital expenditure or any of the other  
24 nondiscretionary payments that we've talked about?

25 MR. PELINO COLAIACOVO: That's



1 correct.

2 MR. MATTHEW GHIKAS: And so if we take  
3 a -- just an example, if the EBITDA to interest ratio  
4 is 1.5, and all of capital and nondiscretionary  
5 outline -- outlays that we've talked about are greater  
6 than the .5, Manitoba Hydro would have to take on  
7 additional debt to fund its operations?

8 MR. PELINO COLAIACOVO: That's right.

9 MR. MATTHEW GHIKAS: Okay. Now, the  
10 EBITDA to interest ratio, it doesn't indicate whether  
11 the Company's debt equity ratio is increasing or  
12 decreasing either, does it?

13 MR. PELINO COLAIACOVO: No, it  
14 doesn't.

15 MR. MATTHEW GHIKAS: Okay. And that  
16 would depend on whether or not the Company's  
17 generating positive or net -- negative net income,  
18 right?

19 MR. PELINO COLAIACOVO: Yes. Net  
20 income -- positive net income means you're increasing  
21 your retained earnings. And if your retained earnings  
22 are increasing at the same ratio as the retained  
23 earnings to debt prior to that year -- at the  
24 beginning of the year then at the end of the year the  
25 ratio will not change.

1                   So it -- the -- it's a growth and rate  
2 base thing. If your rate base is growing, if your  
3 capital expenditures are higher than your depreciation  
4 then that difference has to be financed with some  
5 combination of retained earnings, or in my parlance,  
6 customer contributions because that's what they are or  
7 -- and debt, and in some ratio.

8                   And if the ratio between those two (2)  
9 things is different from your pre-existing ratio, then  
10 you'll move the ratio at the end of the year.

11                   MR. MATTHEW GHIKAS: Let -- let me  
12 just backup maybe that -- maybe we can just simplify  
13 this. So I'm going to take a grossly oversimplified  
14 example.

15                   But if you had an EBITDA to interest  
16 ratio of 1.0 times and you had \$1 of depreciation, you  
17 would have negative net income -- sorry, net income of  
18 negative \$1 dollar; right?

19                   MR. PELINO COLAIACOVO: That's right.

20                   MR. MATTHEW GHIKAS: Okay. And now  
21 I'd like to -- you've referred made reference in your  
22 report to this -- and you referred to in your -- in  
23 your evidence about the Bonneville Power  
24 Administration, 95 percent standard.

25                   MR. PELINO COLAIACOVO: Correct.

1 MR. MATTHEW GHIKAS: So I'd like --  
2 I'd like to turn to that. The way -- well, perhaps  
3 you can just characterize how you view that test.

4 MR. PELINO COLAIACOVO: As I pointed  
5 out, I -- I included simply as an example of a Utility  
6 that has a rule that they follow, that they clearly  
7 communicate to the debt markets and they try to  
8 consistently follow that rule in their ratesetting to  
9 ensure that their rates are high enough so that in 95  
10 percent of foreseeable scenarios, they have enough  
11 cash flow combined with reserves so that they can meet  
12 their obligations for a two-year period until their  
13 next rate hearing.

14 MR. MATTHEW GHIKAS: Okay.

15 MR. PELINO COLAIACOVO: They also have  
16 some other contingencies in the event that they're in  
17 the 5 percent tail and so on.

18 MR. MATTHEW GHIKAS: Okay. So the  
19 reference I was thinking of was slide 29, where you  
20 referenced it there. Okay. So let's -- if we can go  
21 in tab 4 of the book of documents, Manitoba Hydro  
22 Exhibit 116. There is the Bonneville annual report.  
23 And if you go to page 39 under "rate tools" at the  
24 bottom, do you see that?

25

1 (BRIEF PAUSE)

2

3 MR. MATTHEW GHIKAS: Sorry, I must  
4 have the wrong page. 35. Sorry. Under "rate tools"  
5 there.

6 So you see it says:

7 "Under BPA's treasury payment  
8 probability standard BPA establishes  
9 rates sufficient to maintain a level  
10 of financial reserves to achieve a  
11 95 percent probability of making all  
12 of BPA's scheduled US treasury  
13 payments during the two-year  
14 period."

15 Do you see that?

16 MR. PELINO COLAIACOVO: Yes.

17 MR. MATTHEW GHIKAS: Okay. Now BPA's  
18 standard isn't limited to hydrology, is it?

19 MR. PELINO COLAIACOVO: No, it's not.

20 MR. MATTHEW GHIKAS: And in terms of -  
21 - if we go over to page 83 of the annual report.  
22 There's a section on repayment demonstration. And you  
23 see it says:

24 "BPA is required by Public Law 89448  
25 to demonstrate that reimbursable

1 costs of the FCRPS  
2 Bonneville, right] will be returned  
3 to the US treasury from BPA net  
4 revenues within the prescribed --  
5 within the period prescribed by law,  
6 BPA is required to make a similar  
7 demonstration of the cost of  
8 irrigation projects that are well  
9 beyond the ability of irrigation  
10 water users to repay. These  
11 requirements are met by conducting  
12 power repayment studies, including  
13 schedules of payments at the  
14 proposed rates to demonstrate  
15 repayment of principal within the  
16 allowable repayment period."

17 Do you see that?

18 MR. PELINO COLAIACOVO: I do.

19 MR. MATTHEW GHIKAS: So Bonneville is  
20 -- is making scheduled debt repayments and its rates  
21 reflect that, right?

22 MR. PELINO COLAIACOVO: That's  
23 correct.

24 MR. MATTHEW GHIKAS: Okay. So if we  
25 go to page 85.

1 MR. PELINO COLAIACOVO: It's also  
2 borrowing more debt from the capital markets. It has  
3 a combination of debt from the US federal government  
4 and borrowings from the public markets.

5 MR. MATTHEW GHIKAS: So if we -- we  
6 can see on page 85 there is some debt repayment  
7 schedules, graphs there.

8 And you'd agree with me that based on  
9 these diagrams we're talking about significant  
10 principal repayments being made on an annual basis?

11 MR. PELINO COLAIACOVO: That's  
12 correct.

13 MR. MATTHEW GHIKAS: Okay. And if --  
14 page 44, it actually describes them but it's talking  
15 about \$478 million in 2016, 219 million in 2015 and  
16 204 million in 2014?

17 MR. PELINO COLAIACOVO: Correct.

18 MR. MATTHEW GHIKAS: So 900 million  
19 over three (3) years?

20 MR. PELINO COLAIACOVO: Yes.

21 MR. MATTHEW GHIKAS: And you'd agree  
22 with me that if the test for setting rates for  
23 Manitoba Hydro was that there needed to be a 95  
24 percent probability of making principal payments over  
25 a two (2) year rating period, the 3.95 percent

1 trajectory would fail badly?

2 MR. PELINO COLAIACOVO: I honestly  
3 haven't looked at that.

4 MR. MATTHEW GHIKAS: Manitoba Hydro is  
5 not anticipating making any principal payments in the  
6 next few years?

7 MR. PELINO COLAIACOVO: As I  
8 understand Manitoba Hydro's plan, its debt principal  
9 is going to be increasing substantially, so, any debts  
10 that are coming to term, are simply going to be  
11 refinanced.

12 MR. MATTHEW GHIKAS: Okay. So BPA  
13 came up again in another context where you indicated  
14 in your report at page 26 and you also did this in  
15 your slide presentation. You set out -- you set out  
16 to -- sorry, slide 7 in your -- sorry, slide 11.

17 So you've done a debt-to-utility assets  
18 comparison here, and you've indicated the effect --  
19 the reason you've -- you've included this chart,  
20 essentially, is to indicate that some of these  
21 American utilities, in particular, have a greater  
22 indebtedness on this metric than Manitoba Hydro, and  
23 they're doing fine. Is that the upshot?

24 MR. PELINO COLAIACOVO: I -- I think  
25 my comment yesterday was there is a story behind each

1 one (1) of these utilities. Both utilities that have  
2 higher metrics and utilities that have lower metrics.  
3 And while on its face you could draw a simple  
4 conclusion that says, well, Manitoba Hydro is in the  
5 middle in both columns so it must to be fine, or  
6 something along those lines.

7 I don't think it's actually fair to  
8 draw that kind of conclusion. I think there is a  
9 story behind each one (1) of these Utilities and so  
10 you have to understand the story, for example, Nalco's  
11 only 52 but they have huge problems. And, you know,  
12 another Utility like Bonneville Power is at 93 but  
13 may not have huge problems. And -- and so simply  
14 quoting these ratios is not actually determinative of  
15 a very much.

16 MR. MATTHEW GHIKAS: Now, the reason  
17 I'm -- I'm asking you that, your -- your presentation  
18 is more nuanced than your report. Your report just  
19 indicated that some US Utilities were boasting  
20 investment grade debt regardless of their debt --  
21 levels of indebtedness, which are higher -- in some  
22 cases higher than Manitoba Hydro.

23 So you're -- you're tempering that in  
24 your discussion?

25 MR. PELINO COLAIACOVO: Well, I think



1 every one (1) of these Utilities is -- the ones on --  
2 that are listed in the presentation, all of them have  
3 investment grade credit ratings.

4 MR. MATTHEW GHIKAS: Now, just in  
5 terms of -- in terms of what -- I think you indicated  
6 you used this metric because it -- it allowed for a  
7 comparison that didn't have a bunch of caveats  
8 associated with it?

9 MR. PELINO COLAIACOVO: That's  
10 correct.

11 MR. MATTHEW GHIKAS: So PPE is  
12 property, plant and equipment?

13 MR. PELINO COLAIACOVO: That's  
14 correct.

15 MR. MATTHEW GHIKAS: And you focus  
16 everywhere else on cash flow, but debt to PPE isn't a  
17 cash flow metric?

18 MR. PELINO COLAIACOVO: No, it's not.

19 MR. MATTHEW GHIKAS: Okay. It doesn't  
20 tell you whether your cash flow is sufficient to cover  
21 your interest or other costs?

22 MR. PELINO COLAIACOVO: No, it's not.

23 MR. MATTHEW GHIKAS: And what this  
24 ratio means, in practice, is that the comparison of  
25 the issued debt to the historical depreciated costs,

1 the book value, right?

2 MR. PELINO COLAIACOVO: That's  
3 correct.

4 MR. MATTHEW GHIKAS: And because it's  
5 based on book value, the values of this ratio will  
6 change, depending on how new the asset base is  
7 relative to the others?

8 MR. PELINO COLAIACOVO: Well, there --  
9 an asset can be new but have a high depreciation rate,  
10 a different asset can be old but have a low  
11 depreciation rate and -- and so...

12 MR. MATTHEW GHIKAS: In general, newer  
13 assets would -- the book value would tend to be  
14 higher?

15 MR. PELINO COLAIACOVO: Yes.

16 MR. MATTHEW GHIKAS: Okay. And when  
17 you're using original cost. Obviously if you have --  
18 if you installed assets years ago, they were generally  
19 cheaper to install?

20 MR. PELINO COLAIACOVO: Yes,  
21 absolutely --

22 MR. MATTHEW GHIKAS: -- being fully  
23 depreciated, for example?

24 MR. PELINO COLAIACOVO: That's  
25 correct.

1 MR. MATTHEW GHIKAS: Okay. And in  
2 your -- your comparison here you haven't accounted for  
3 the relative age of the asset base?

4 MR. PELINO COLAIACOVO: I have not.  
5 That's another good point. And in the -- in the  
6 element of -- there is a story behind every Utility.  
7 So if a Utility currently has very old assets, but a  
8 low debt ratio, on this metric, and they're about to  
9 spend lots of money on new assets, you could expect  
10 that their debt ratio would go up.

11 MR. MATTHEW GHIKAS: Okay. All right,  
12 well, let's -- let's explore some of those nuances  
13 about BPA.

14 So first of all, if we go to BPA's --  
15 sorry, if we go to your report at page 88, you've got  
16 a little synopsis of BPA -- BPA's metrics. 88, sorry,  
17 of your report.

18 And since elsewhere in your report  
19 you're looking at cash flow metrics, if we look at the  
20 cash flows metrics. If we go down a little further.  
21 Keep going down right to the bottom.

22 The debt service coverage ratio is 5.1  
23 times?

24 MR. PELINO COLAIACOVO: Yes, in 2016.

25 MR. MATTHEW GHIKAS: Okay. And we've

1 looked at the fact that they are making substantial  
2 payments -- repayments to the U.S. Treasury, right?

3 MR. PELINO COLAIACOVO: That's  
4 correct.

5 MR. MATTHEW GHIKAS: That would be  
6 something that would -- would give comfort for -- in  
7 the event of having a high debt burden?

8 MR. PELINO COLAIACOVO: Well -- yeah,  
9 when -- when you go -- go into their annual report and  
10 -- and read a series of their reports, they've been  
11 reducing the amount of federal debt because they're  
12 required to by law. And they've been increasing the  
13 amount of private-sector debt.

14 And so when you actually look at -- at  
15 this -- this chart that you have in front of you here,  
16 you can see the long-term debt line from 2010 to 2016  
17 has actually been growing but inside that debt the  
18 proportion of federal debt to private-sector debt has  
19 been changing over time.

20 MR. MATTHEW GHIKAS: Okay. So if we  
21 go to one -- you included a Moody's rating report for  
22 BPA in your report. And if you could turn to 129 of  
23 that report. Thank you, Diana. The paragraph  
24 beginning in...

25

1 (BRIEF PAUSE)

2

3 MR. MATTHEW GHIKAS: Sorry, just bear  
4 with me here. I've got the wrong page. Sorry, it's  
5 130.

6 You'll see the paragraph beginning,  
7 "notwithstanding." So you'll see there that it  
8 references that, first of all, that notwithstanding  
9 the -- has the regulated utility like rate-making  
10 process that BPA operates under, we recognize that BPA  
11 has raised rates in difficult situations, such as the  
12 power crisis of 2000 to 2001, when BPA raised rates by  
13 46 percent.

14 Do you see that?

15 MR. PELINO COLAIACOVO: I do.

16 MR. MATTHEW GHIKAS: And that  
17 willingness on the part of the regulator and BPA to  
18 raise rates 46 percent, and in a difficult situation,  
19 that would provide some comfort to bondholders  
20 regarding BPA's overall debt load?

21 MR. PELINO COLAIACOVO: Absolutely.

22 MR. MATTHEW GHIKAS: Okay. And if you  
23 go to the next paragraph -- or sorry, the next  
24 sentence, you will see a reference to the CRAC. And  
25 you can say:

1 "Additionally, within a rate period  
2 BPA is able to charge an additional  
3 300 million per year starting at the  
4 beginning of the fiscal year under  
5 the cost recovery adjustment clause  
6 if power services accumulated net  
7 revenue is below a level set that is  
8 equivalent to reserves for risk at  
9 zero balance."

10 Do you see that?

11 MR. PELINO COLAIACOVO: I do.

12 MR. MATTHEW GHIKAS: Okay. So you'd  
13 agree with me that the ability to raise rates by \$300  
14 million within a period -- a test period, that would  
15 also provide comfort to bondholders regarding BPA's  
16 overall debt load?

17 MR. PELINO COLAIACOVO: Yes, it would  
18 and I think in my presentation I made a statement  
19 about the combination of reserves and the willingness  
20 to raise rates, and that every Utility makes --  
21 chooses its own balance between those things. BPA is  
22 an example of a very short time horizon for reserves  
23 and higher willingness to raise rates.

24 MR. MATTHEW GHIKAS: And just -- I did  
25 the math based on page 54, with the assistance of

1 someone who knows how to do math, and I calculated  
2 that 300 million is about 10 percent of the sales  
3 revenue.

4 So that's a -- a 10 percent rate  
5 increase within the period?

6 MR. PELINO COLAIACOVO: I would point  
7 out that BPA is a wholesale provider of energy that  
8 does not have retail customers.

9 So BPA provides energy to very large  
10 industrial customers, usually under contract which  
11 limits their ability to raise rates for those  
12 customers. It also provides power to distribution  
13 utilities that are municipal or rural electric co-ops  
14 within its territory, and those Utilities will, in  
15 turn, then make decisions about how to pass those  
16 costs through to their ratepayers, who tend to be  
17 retail customers.

18 So -- and that -- this applies also to  
19 Tennessee Valley Authority. They're both wholesale  
20 level providers.

21 MR. MATTHEW GHIKAS: Okay. And almost  
22 half of BPA's debt is owed to the U.S. Treasury?

23 MR. PELINO COLAIACOVO: That's  
24 correct.

25 MR. MATTHEW GHIKAS: Okay. And that

1 is obtained at basically the same cost as the US  
2 treasury?

3 MR. PELINO COLAIACOVO: Yes.

4 MR. MATTHEW GHIKAS: And they're -- so  
5 they're paying basically the lowest interest rates  
6 available in North America on that debt?

7 MR. PELINO COLAIACOVO: Well, lowest  
8 interest rates available on that debt when it was  
9 issued.

10 MR. MATTHEW GHIKAS: The U.S. Treasury  
11 rates are -- tend to be the lowest?

12 MR. PELINO COLAIACOVO: Yes.

13 MR. MATTHEW GHIKAS: Yes, okay. And  
14 that, you'd agree with me, would provide some comfort  
15 to bondholders that are not the US government?

16 MR. PELINO COLAIACOVO: Yes.

17 MR. MATTHEW GHIKAS: And there is a  
18 legal obligation, as you referenced, to pay interest  
19 on the borrowings from the US Treasury and they are  
20 structurally subordinated by law to the debt owed to  
21 all other investors?

22 MR. PELINO COLAIACOVO: That's  
23 correct. It's a -- it's a big part of the special  
24 arrangements that apply to this particular Utility.

25 MR. MATTHEW GHIKAS: Right. And that



1 would provide some comfort, as well, to bondholders  
2 about the debt --

3 MR. PELINO COLAIACOVO: That's  
4 correct.

5 MR. MATTHEW GHIKAS: Now, the second  
6 Utility -- the second utility that you included in  
7 your chart that had a 102 percent ratio on your slide,  
8 there was Long Island Power Authority.

9 MR. PELINO COLAIACOVO: Yes.

10 MR. MATTHEW GHIKAS: And that -- if we  
11 go to the book of documents, tab 5, to the Long Island  
12 Power Authority 2016 annual report. That's the report  
13 that you referred to in your errata, right?

14 MR. PELINO COLAIACOVO: Yes, we -- we  
15 -- the information that's in the summaries that we  
16 prepared in our appendix, we got all of that  
17 information from a combination of Bloomberg and the  
18 actual financial reports of all the companies.

19 MR. MATTHEW GHIKAS: And I should say,  
20 you had also cited the BPA 2016 report?

21 MR. PELINO COLAIACOVO: Yes, we did.

22 MR. MATTHEW GHIKAS: Okay. So if we  
23 go to page 29 of the Long Island Power Authority,  
24 you'll see rate matters there in the middle of the  
25 page? And you'll see that it says:

1 "The LIPA Act requires that any bond  
2 resolution of the Authority contain  
3 a covenant that it will at all times  
4 maintain rates, fees or charges  
5 sufficient to pay the costs of  
6 operation and maintenance of  
7 facilities owned by -- sorry, owned  
8 or operated by the Authority,  
9 pilots, renewals, replacements and  
10 capital additions and the principal  
11 of and interest on any obligations  
12 issued pursuant to such resolution  
13 as same become due and payable. In  
14 addition, the Authority must  
15 establish or maintain reserves or  
16 other funds or accounts required or  
17 established by or pursuant to the  
18 terms of such resolution."

19 Do you see that?

20 MR. PELINO COLAIACOVO: I do.

21 MR. MATTHEW GHIKAS: Okay. And  
22 Manitoba Hydro doesn't offer any such covenants to its  
23 debtholders, does it?

24 MR. PELINO COLAIACOVO: Well, Manitoba  
25 Hydro's only debtholder is the province of Manitoba.

1 MR. MATTHEW GHIKAS: And the province  
2 of Manitoba doesn't offer any such debt -- any such  
3 covenants to its debtholders, does it?

4 MR. PELINO COLAIACOVO: The  
5 legislation that you're referring to here, LIPA -- the  
6 LIPA Act is similar in nature to the legislation  
7 governing Manitoba Hydro that requires Manitoba Hydro  
8 to recover all of its cost through rates; that's  
9 effectively what this term is saying, that there is a  
10 legislative obligation on them to recover their costs  
11 through rates.

12 MR. MATTHEW GHIKAS: If there was a  
13 covenant that Manitoba -- the province of Manitoba  
14 Hydro had entered into that Manitoba Hydro was  
15 repaying principal of and interest on any obligations  
16 as they become due and payable, it would be breaching  
17 those covenants under a 3.95 percent rate trajectory,  
18 wouldn't it?

19 MR. PELINO COLAIACOVO: I don't think  
20 that would be the case.

21 MR. MATTHEW GHIKAS: It's not repaying  
22 any principal --

23 MR. PELINO COLAIACOVO: Well --

24 MR. MATTHEW GHIKAS: -- it's  
25 refinancing, right?

1 MR. PELINO COLAIACOVO: But -- but --  
2 yeah, the principal is being refinanced, which is what  
3 you do. So you repay principal when you have an  
4 amortiser. If you -- if you have a kind of debt that  
5 is an amortized debt where you pay a combination of --  
6 well, a mortgage is an example of an amortiser. Every  
7 year you pay a combination of interest and principal  
8 and at the end of the mortgage, you owe less than what  
9 you started.

10 But, the kind of debt that Manitoba  
11 Hydro uses is bullet bonds and bullet bonds, you pay  
12 no principal over the life of the bond. You make  
13 interest-only payments. And then the full amount is  
14 due at the end of the bullet bond. But in a regulated  
15 Utility typically -- particularly a regulated Utility  
16 that has an asset based that's growing, you never  
17 actually retire a bond, you just refinance it and  
18 replace it with another bullet bond.

19 So, I'm not sure, you know, if we're  
20 talking the same language or not.

21 MR. MATTHEW GHIKAS: Well, the -- I  
22 mean, we won't belabour it because the document is  
23 here and speaks for itself.

24 But if Manitoba Hydro is not retiring  
25 any principal other than through refinancing, is it,

1 in the next several years?

2 MR. PELINO COLAIACOVO: But -- but you  
3 only retire principal in the sense of the word that I  
4 think you're trying to get at.

5 When an asset base is actually  
6 shrinking, so -- so if you were to -- think of a  
7 windfarm. A windfarm has a twenty (20) year contract  
8 to -- license to operate for twenty (20) years. Over  
9 the course of that twenty (20) years, a windfarm is  
10 going to repay all of the out -- the debt that it  
11 borrowed at the beginning of its twenty (20) year  
12 contract.

13 When you get to the end of the twenty  
14 (20) years, all of your debt re-principal must be  
15 repaid because your contract expires. The project's  
16 over. It's finished. And so no lender would lend you  
17 money unless you are planning to pay all of the money  
18 back during the twenty (20) year contract.

19 But a Utility is a perpetual  
20 organization. A Utility's business goes on forever.  
21 And so as long as you're going to keep replacing your  
22 assets, you don't actually retire your debt unless,  
23 for some reason, your asset base is shrinking. And  
24 so, there are a few Utilities out there where  
25 customers -- the population is falling in a city and

1 they're going to actually reduce the amount of  
2 infrastructure that they have and so their asset base  
3 shrinks over time. They would have to retire some of  
4 their principal.

5 But for a Utility like Manitoba Hydro,  
6 which is growing, you don't actually retire the  
7 principal. You just keep refinancing the debt over  
8 and over again which is -- which is exactly what  
9 Manitoba Hydro does.

10 MR. MATTHEW GHIKAS: Okay. Let's go  
11 to page 29 -- oh, I should say let -- yeah, page 29 of  
12 the annual report.

13 Now in your company profile on page --  
14 just as an aside, we don't have to go there, but on --  
15 in your company profile for Long Island Power  
16 Authority you indicated on page 89 of your report that  
17 um -- next to regulation you had New York Department  
18 of Public Service. And you will see on page 29 that:

19 "The Authority's Board is empowered  
20 under its enabling statute to set  
21 rates for electric service in the  
22 service area without obtaining the  
23 approval of the Public Service  
24 Commission, PSE, or its staff on the  
25 DPS or any other state regulatory

1 body."

2 Do you see that?

3 MR. PELINO COLAIACOVO: I do.

4 MR. MATTHEW GHIKAS: Okay. Now -- and  
5 then over on page 31 -- 31, okay. And you'll see  
6 second to last paragraph:

7 "After the 2016 to 2018 period the  
8 Authority and PSEG Long Island are  
9 only required to submit a proposed  
10 rate increase for DPS review if it  
11 would increase the rates and charges  
12 by an amount that would increase the  
13 Authority's total annual revenues by  
14 more than 2.5 percent. In addition,  
15 the Authority may place rates in  
16 effect on an interim basis and such  
17 interim rates are subject to  
18 perspective adjustment only. The  
19 Authority's Board retains final  
20 ratesetting power."

21 Do you see that?

22 MR. PELINO COLAIACOVO: I do.

23 MR. MATTHEW GHIKAS: Okay. So the  
24 ability to increase rates by 2.5 percent and to set  
25 nonrefundable interim rates, that's not something that

1 Manitoba Hydro can do, correct?

2 MR. PELINO COLAIACOVO: No, it's not.

3 MR. MATTHEW GHIKAS: Okay. And on  
4 page 49. And I should say that that is something that  
5 bondholders and investors in Long Island would take  
6 comfort from?

7 MR. PELINO COLAIACOVO: Yes. There  
8 are certain US public power utilities that have the  
9 ability to set their own rates. TVA is the most  
10 famous example of that. And those are favoured by the  
11 capital markets, principally because most of those  
12 Utilities make very clear their focus on always paying  
13 their debts, and they have the ability to do so by  
14 raising rates.

15 So -- whereas Utilities that have to go  
16 before a regulator and go through a regulatory process  
17 typically takes time, takes effort, et cetera, and so  
18 capital markets recognize that difference.

19 MR. MATTHEW GHIKAS: Now, on -- you'll  
20 see the first sent -- the first paragraph there,  
21 another thing that Long Island can do:

22 "In the event the Authority  
23 determines there's insufficient  
24 revenues to pay reasonable and  
25 necessary operating expenses or to



1           make payments on bonds or parity  
2           obligations, certain senior  
3           management are authorized after  
4           notifying the finance and audit  
5           committee of the Authority's Board  
6           to release funds from the OPEC  
7           account for such purposes."

8           I expect that that's not something we  
9   see in Manitoba anytime soon?

10           MR. PELINO COLAIACOVO:   Well, but the  
11   next -- the next paragraph explains.  I mean, the OPEB  
12   account funds are money market funds and -- and so  
13   they -- they may maintain a certain amount of cash  
14   reserves; that's really what they're saying here.

15           So part of their arrangements are a  
16   certain amount of cash reserves that they can use for  
17   debt service coverage.  Manitoba Hydro doesn't --  
18   well, Manitoba Hydro has a short-term credit facility  
19   for those kinds of purposes.  Manitoba Hydro also has  
20   the ability to raise long-term debt from the Manitoba  
21   government in relatively short order, but it's -- it's  
22   short-term credit facility is analogous to having some  
23   money market funds available.

24           MR. MATTHEW GHIKAS:   Okay.  Quickly  
25   now to TVA.  There's a presentation at tab 10.

1 DR. BYRON WILLIAMS: Mr. -- Mr. Chair,  
2 we certainly have no objections to information  
3 relating to TV -- TVA, and specifically tab 10, being  
4 put before the panel and My Learned Friend was kind  
5 enough to -- to provide this to us, but I don't  
6 believe this document's on the record.

7 So in fairness to the witness and to  
8 the Board, we would suggest that the entire PowerPoint  
9 be placed on the record. And we have copies here for  
10 the Board if Manitoba Hydro has chosen not to.

11 So my -- my point, Mr. Chair, is the  
12 other documents are referenced in Mr. Colaiacovo's  
13 evidence. This is something that's not. We're fine  
14 with it being put to Mr. Colaiacovo. We're quite  
15 happy to deal with it. It's a twenty (20) page  
16 PowerPoint that we are -- we believe would be useful.  
17 And if Manitoba Hydro's referentially bringing it on  
18 the record, we would say the appropriate way to do so  
19 is with copies and if -- if they've not brought  
20 copies, we have.

21 MR. MATTHEW GHIKAS: This is the TVA  
22 presentation? It's in the book of documents, tab 10,  
23 the entirety.

24 DR. BYRON WILLIAMS: We've just got a  
25 link.

1 MR. MATTHEW GHIKAS: Well --

2 THE CHAIRPERSON: And we have  
3 different tab -- we have different binders.

4 MR. MATTHEW GHIKAS: No, the -- I  
5 mean, what we did -- the -- the link is there --

6 DR. BYRON WILLIAMS: And we're simply  
7 asking that the paper version be you provided to -- to  
8 people in the room.

9 MR. MATTHEW GHIKAS: Oh, okay. Well,  
10 the Board has paper version because it's in tab 10.

11 THE CHAIRPERSON: This was -- this was  
12 put in as an exhibit. Our binders have --

13 DR. BYRON WILLIAMS: Okay, we don't.

14 THE CHAIRPERSON: -- a copy. I'm just  
15 wondering if we could have a copy for the -- for the  
16 other parties so that we're all looking at the same  
17 document.

18 MR. MATTHEW GHIKAS: Certainly.

19 THE CHAIRPERSON: So, as I understand  
20 it, Mr. Ghikas, they have electronic versions, but not  
21 paper versions.

22 MR. MATTHEW GHIKAS: They -- they had  
23 a link to the document. I'm not sure what's --

24 THE CHAIRPERSON: Okay.

25 MR. MATTHEW GHIKAS: -- what the issue

1 is, but I'm happy if we want to --

2 THE CHAIRPERSON: He's handing them  
3 out right now so it doesn't matter. And this -- the  
4 document we have is the binders in as an exhibit so.

5 MR. MATTHEW GHIKAS: Okay.

6 THE CHAIRPERSON: Okay.

7 MR. MATTHEW GHIKAS: Okay.

8

9 (BRIEF PAUSE)

10

11 CONTINUED BY MR. MATTHEW GHIKAS:

12 MR. MATTHEW GHIKAS: All right. Just  
13 in terms of -- now I appreciate you -- you haven't  
14 seen this before. This was taken from the TVA  
15 website. You had a chance to look at?

16 MR. PELINO COLAIACOVO: I have -- I  
17 have seen before and yes.

18 MR. MATTHEW GHIKAS: You have seen it  
19 before?

20 MR. PELINO COLAIACOVO: Yeah.

21 MR. MATTHEW GHIKAS: And you -- just  
22 looking quickly at slide 18, there is on the left-hand  
23 side "total financing obligations." This seems to be  
24 indicating, you'd agree, that they're bringing down  
25 their debt from roughly 26 billion in fiscal year of

1 '16 to 19.8 billion in fiscal year '23?

2 MR. PELINO COLAIACOVO: Yeah, it -- it  
3 suggests to me that their board has a policy, a desire  
4 to do so and the current financial forecasting  
5 suggests that the company is going to be able to meet  
6 the Board's policy.

7 MR. MATTHEW GHIKAS: And are you aware  
8 that TVA is a shrinking utility?

9 MR. PELINO COLAIACOVO: The -- I don't  
10 believe they are shrinking. I think if -- if you go  
11 to the five (5) year, six (6) year history that we  
12 have, you'll see that they're not shrinking.

13 MR. MATTHEW GHIKAS: And in their rate  
14 structure on page -- on slide 21, it seems to indicate  
15 that .86 cents out of \$6 and -- sorry, out of 6.60  
16 cents per kilowatt hour goes to debt service?

17 MR. PELINO COLAIACOVO: Yes.

18 MR. MATTHEW GHIKAS: Specifically the  
19 principal payments?

20 MR. PELINO COLAIACOVO: Yes.

21 MR. MATTHEW GHIKAS: And on slide 25,  
22 where it's talking about effectively managing debt,  
23 the blue line -- low -- lower left corner, the blue  
24 line indicating a change in gross PPE and the total  
25 cumulative change in total financing obligations is in

1 red. Do you see that?

2 MR. PELINO COLAIACOVO: I do.

3 MR. MATTHEW GHIKAS: And so what we  
4 have here is the debt is relatively flat while they've  
5 added \$19.3 billion in -- in PPE over eight (8) years?

6 MR. PELINO COLAIACOVO: I think that  
7 their record has been remarkable not only, however, in  
8 debt management but in also reducing their rates over  
9 that time period and reducing their operating costs  
10 significantly and reducing their headcount and  
11 increasing their performance metrics as compared to  
12 peers across North America.

13 This is an example of a Utility that's  
14 done a fantastic job. Is in a happy place, if you  
15 will, of being able to exceed expectations across a  
16 whole range of metrics.

17 And in a -- in a couple of the slides  
18 that you skipped over, on slide 22, for example, it  
19 shows their comparative performance metrics which are  
20 improving over the course of that time.

21 On slide 23, it shows the dramatic  
22 reductions in headcounts that they are making in order  
23 to provide -- you know, to -- to achieve those  
24 improvements, but in -- on slide 24 it actually shows  
25 that their capital expenditures are going down for the

1 next several years which gives them more flexibility  
2 to achieve the numbers that they are achieving.

3 I think TVA is a great company and has  
4 been -- and doing an excellent job and would certainly  
5 be a -- a company's that -- whose success I think  
6 should be examined. But they are in a very, very  
7 different set of circumstances from Manitoba Hydro on  
8 -- on a lot of these different metrics.

9 MR. MATTHEW GHIKAS: Right. And that  
10 -- that's part of the reason why I'm doing this is  
11 because you've -- you've got this debt to PPE  
12 comparison in here, and you appreciate that's why I'm  
13 putting it to you is --

14 MR. PELINO COLAIACOVO: I do. And --  
15 and in -- in fact, I -- I mean, as I said, each  
16 different Utility has a different story behind it and  
17 so, you know, TVA I think is -- is one (1) of those  
18 companies that's out there that both effectively  
19 manages its debt, but also reduces its rates over time  
20 to customers as apposed to increasing them.

21 MR. MATTHEW GHIKAS: Okay. They're  
22 benefiting from natural gas prices going down?

23 MR. PELINO COLAIACOVO: They are, but  
24 they also have nuclear plants and they have been  
25 investing in renewable energy. And they -- I mean the

1 Tennessee Valley Authority was originally structured  
2 as a hydroelectric focus company in the Ohio -- sorry,  
3 in the Tennessee Valley and so they have hydroelectric  
4 as well.

5 But over the years they've built up a  
6 number of other types of generations so now they have  
7 a whole portfolio that the manage.

8 MR. MATTHEW GHIKAS: Okay, let's  
9 switch gears here, slides 18 -- 17 and 18 of your  
10 opening presentation, please.

11

12 (BRIEF PAUSE)

13

14 MR. MATTHEW GHIKAS: So this -- this  
15 analysis on slides 17 and 18, that wasn't in your  
16 report, was it?

17 MR. PELINO COLAIACOVO: No.

18 MR. MATTHEW GHIKAS: And it wasn't --  
19 wasn't in Irs?

20 MR. PELINO COLAIACOVO: Yeah, it did  
21 not come up in Irs.

22 MR. MATTHEW GHIKAS: So it appeared  
23 for the first time in your presentation deck?

24 MR. PELINO COLAIACOVO: Yes, it did.

25 MR. MATTHEW GHIKAS: And the reference



1 on slide 19 to some worksheets that you have included,  
2 that analysis in the worksheets that wasn't in your  
3 report, was it?

4 MR. PELINO COLAIACOVO: No, it was  
5 not.

6 MR. MATTHEW GHIKAS: It wasn't in your  
7 Irs?

8 MR. PELINO COLAIACOVO: No, it was  
9 not.

10 MR. MATTHEW GHIKAS: Okay. And it  
11 appeared for the first time in your presentation  
12 yesterday?

13 MR. PELINO COLAIACOVO: Yes. It was  
14 work that I was able to do after the IRs were  
15 completed. Having said that, it's a very short number  
16 of calculations. The vast majority of that  
17 information is directly lifted out of the sources  
18 cited.

19 MR. MATTHEW GHIKAS: No, I -- I  
20 appreciate that. What -- but the message that you're  
21 putting forward, that's an entirely new theme you've  
22 picked up? Well, it is, sir. You didn't raise it in  
23 your report, did you?

24 MR. PELINO COLAIACOVO: I believe in  
25 my report I said that the -- shortening the time for

1 the targets increases the burden on customers and this  
2 helps to give an example of what that means, how the  
3 burden has been increased.

4 MR. MATTHEW GHIKAS: I would suggest  
5 to you isn't the purpose of what the analysis that  
6 you've done is you've -- you're trying to demonstrate  
7 whether or not customers have been paying for the  
8 ongoing operation of the Utility?

9 MR. PELINO COLAIACOVO: Well, there is  
10 that as well.

11 MR. MATTHEW GHIKAS: Yeah, that's --  
12 that's entirely new analysis?

13 MR. PELINO COLAIACOVO: Well, the  
14 statements have been made that rates over the past  
15 five (5) years have been too low to recover basic  
16 costs of the Utility and -- and so those statements,  
17 frankly, brought to mind this analysis. Aren't --  
18 have they actually been too low.

19 MR. MATTHEW GHIKAS: And those  
20 statements were also in the application, which  
21 predated your evidence being filed?

22 MR. PELINO COLAIACOVO: It's true.

23 MR. MATTHEW GHIKAS: Okay. Now, in  
24 terms of how you performed that analysis, can you just  
25 confirm for me, you didn't exclude from the cash

1 collected -- you didn't exclude from the cash  
2 collected the Bipole III account in determining your  
3 debt and equity?

4 MR. PELINO COLAIACOVO: I didn't -- I  
5 didn't specifically exclude anything that wasn't in  
6 the calculations that were there.

7 MR. MATTHEW GHIKAS: Okay and you  
8 didn't adjust for interest capitalization taking into  
9 account the income creating effect of Manitoba Hydro's  
10 capitalization of interest in a declining rate  
11 environment, as was discussed on page 8, and 9 of your  
12 report?

13 MR. PELINO COLAIACOVO: Capitalized  
14 interest is -- yeah, it's the amount that has been  
15 capitalized by Manitoba Hydro, that's what's included  
16 in the sixty-four eighty-three (6483).

17 MR. MATTHEW GHIKAS: You didn't adjust  
18 for it?

19 MR. PELINO COLAIACOVO: I did not.

20 MR. MATTHEW GHIKAS: And you didn't  
21 exclude the impact of cash received on a repayment of  
22 a loan receivable that predated 2012?

23 MR. PELINO COLAIACOVO: I did not.

24 MR. MATTHEW GHIKAS: You haven't  
25 adjusted for fourteen (14) years of higher than

1 average water flows?

2 MR. PELINO COLAIACOVO: I don't think  
3 that would actually be appropriate, because if water  
4 flows had been different over the past five (5) years,  
5 then there may have been different requests at the  
6 GRA's during those five (5) years.

7 MR. MATTHEW GHIKAS: You haven't  
8 adjusted for them?

9 MR. PELINO COLAIACOVO: Absolutely  
10 not.

11 MR. MATTHEW GHIKAS: You haven't  
12 adjusted the debt and equity for the gain on a sale of  
13 land?

14 MR. PELINO COLAIACOVO: No. But I  
15 also didn't adjust for the fact that Conawapa costs  
16 are going to be recovered in the future. I assumed  
17 those were actually covered over the past five (5)  
18 years. I didn't adjust for other items that are in  
19 regulatory accounts that are going to be recovered in  
20 the future.

21 So there is a put and take. As I say,  
22 on -- on slide 18 in -- in the red bullets, it's one  
23 way of -- of looking at this. It's a limited  
24 analysis. So I did not go through all of the  
25 different puts and takes that you could possibly make.

1 I -- I simply did a gross level, if you were assuming  
2 that all you were doing was financing those projects  
3 at 100 percent and everything else was being covered  
4 by ratepayers over the last five (5) years as opposed  
5 to put forward into the future, then this is one (1)  
6 way of considering it. Ratepayers haven't been  
7 covering their proper quote unquote "share" of all of  
8 those costs.

9 MR. MATTHEW GHIKAS: Mr. Chairman,  
10 just as -- just to make sure I give you notice  
11 properly of this, Manitoba Hydro has been running  
12 numbers based on a presentation that they believe is  
13 more fair and, in our submission, because this is new  
14 evidence that has never been seen before it would be  
15 appropriate for the panel that is reseating at a later  
16 time to be able to speak to this issue, as this is new  
17 evidence.

18 That would be -- in our submission,  
19 that would be the fair -- the fair outcome.

20 THE CHAIRPERSON: We'll take it under  
21 consideration.

22 MR. MATTHEW GHIKAS: Thank you.

23

24 CONTINUED BY MR. MATTHEW GHIKAS:

25 MR. MATTHEW GHIKAS: Now, just to

1 cover some -- probably some easy ones here. A higher  
2 rate trajectory now will generate more revenue in the  
3 early years relative to the 3.5 -- 95, correct?

4 MR. PELINO COLAIACOVO: That's  
5 correct.

6 MR. MATTHEW GHIKAS: And it will  
7 improve the cash flows in the interim?

8 MR. PELINO COLAIACOVO: Cash flows  
9 will go up, if rates go up, absolutely.

10 MR. MATTHEW GHIKAS: And it improves  
11 the ability to service debt and interest?

12 MR. PELINO COLAIACOVO: Yeah, the  
13 critical issue in the -- in the near term is actually  
14 not so much servicing debt as it is financing a  
15 portion of -- a larger portion of the capital  
16 expenditures through cash as opposed to debt.

17 MR. MATTHEW GHIKAS: And it would  
18 improve the prospects of paying down the principal  
19 sooner were that to be appropriate?

20 MR. PELINO COLAIACOVO: More  
21 accurately, less principal would be accumulated in the  
22 first place.

23 MR. MATTHEW GHIKAS: All right. Now,  
24 the -- you -- you've indicated that in reality rates  
25 get reviewed every two (2) years, right?

1 MR. PELINO COLAIACOVO: Okay, that's  
2 been the practice.

3 MR. MATTHEW GHIKAS: And you would  
4 expect that Manitoba Hydro would adjust its business  
5 plans as circumstances change?

6 MR. PELINO COLAIACOVO: I think it's  
7 fair to say that.

8 MR. MATTHEW GHIKAS: And now if we can  
9 turn to page 55 of your report, please. On 55, line  
10 29. So you say here:

11 "As a pure cost recovery government  
12 owned utility, it is not clear why  
13 equity should be a priority per se.  
14 From the perspective of the  
15 ratepayers who are the ultimate  
16 funders of all of the Utility's  
17 operations, equity is essentially  
18 dead money. It earns no return, but  
19 nevertheless has been taken out of  
20 the hands of ratepayers who could  
21 otherwise use it. A review of rate  
22 paths through the lens of  
23 discounting at the social discount  
24 rate helps to stress the importance  
25 of making use of ratepayer funds in

1 the most economical way."

2 Do you see that?

3 MR. PELINO COLAIACOVO: I do.

4 MR. MATTHEW GHIKAS: Okay. So in  
5 terms of how dead the equity is, if I can put it that  
6 way, the equity in the business, as we've discussed,  
7 is not cash, right?

8 MR. PELINO COLAIACOVO: That's  
9 correct.

10 MR. MATTHEW GHIKAS: Okay. And  
11 there's no money sitting in a vault somewhere? The  
12 reserves are a reflection of past rates that were  
13 generating sufficient net income to cover costs and  
14 reinvest in the business?

15 MR. PELINO COLAIACOVO: "Sufficient"  
16 is a loaded term.

17 MR. MATTHEW GHIKAS: Okay. Were  
18 generating more than -- generating positive net  
19 income?

20 MR. PELINO COLAIACOVO: That's right.

21 MR. MATTHEW GHIKAS: Thank you. And  
22 so this equity in a sense reflects a voided debt,  
23 doesn't it?

24 MR. PELINO COLAIACOVO: It does. In a  
25 pure cost recovery Utility because there are no



1 shareholders earning a return, retained earnings  
2 really are nothing other than a voided debt or net  
3 investment in capital as is another one of the names  
4 that -- that I -- are used in other companies.

5 MR. MATTHEW GHIKAS: Right. And debt  
6 comes with a cost?

7 MR. PELINO COLAIACOVO: Debt has cost.

8 MR. MATTHEW GHIKAS: Okay. So in  
9 terms of -- in terms of it being -- that it being dead  
10 money, those -- if ratepayers are achieving the  
11 benefit of -- or receiving the benefit of less  
12 interest on debt, aren't they?

13 MR. PELINO COLAIACOVO: Yes, but  
14 they're actually paying the cost of having given  
15 Manitoba Hydro that money in the first place.

16 There's an opportunity cost to  
17 customers and that opportunity cost to customers is  
18 actually higher than the cost of debt to Manitoba  
19 Hydro. Manitoba Hydro because it gets its debt from  
20 the province of Manitoba is getting much cheaper debt  
21 than virtually anyone else in the economy can get.

22 And so what you're doing is you are  
23 taking high-cost money from ratepayers instead of  
24 getting low cost debt through the capital markets.

25 MR. MATTHEW GHIKAS: Okay. What I'm

1 taking issue with, sir, and we'll come to that  
2 argument. What I'm -- what I'm taking issue with is  
3 that you say it earns no return; that's strictly  
4 speaking true, but there is a savings in terms of a  
5 voided interest, isn't there?

6 MR. PELINO COLAIACOVO: That would be  
7 true. But as you said, strictly speaking, there is no  
8 return on equity in the revenue requirement or in --  
9 or in the financial statements of Manitoba Hydro.

10 MR. MATTHEW GHIKAS: Now, as you've  
11 indicated in your report based on the reference  
12 assumptions that have been applied, the 7.9 percent  
13 rate path will actually be more economically efficient  
14 in inflation-adjusted terms than the 3.95 percent  
15 path; right?

16 MR. PELINO COLAIACOVO: Again  
17 "economically efficient" is a loaded term. So --

18 MR. MATTHEW GHIKAS: But it's a term  
19 you used so what -- do you want me to go there?

20 MR. PELINO COLAIACOVO: -- but if you  
21 -- yeah, if you compare the inflation-adjusted dollars  
22 over time, over a particular period and choose that  
23 period, you -- you make an analysis about which one  
24 has -- which rate path costs more inflation-adjusted  
25 dollars than the other one.

1 MR. MATTHEW GHIKAS: I don't want you  
2 to think I'm using my own loaded terms here, so, maybe  
3 we can go to page 46, at line 21. And line -- sorry,  
4 line 28. You say:

5 "This comparison suggests that over  
6 a long period of time under  
7 reference assumptions the 7.9  
8 percent rate path will actually be  
9 more economically efficient in  
10 inflation-adjusted terms."

11 MR. PELINO COLAIACOVO: Right.

12 MR. MATTHEW GHIKAS:

13 "This is the benefit that results  
14 from paying down debt early rather  
15 than paying compounding interest  
16 costs over a longer period of time."

17 So that's a true statement?

18 MR. PELINO COLAIACOVO: M-hm.

19 MR. MATTHEW GHIKAS: Okay.

20 MR. PELINO COLAIACOVO: Yes, sorry.

21 MR. MATTHEW GHIKAS: And in terms of -  
22 - in terms of if Manitoba Hydro had a larger balance  
23 sheet, it would be better able to absorb shorter term  
24 financial shocks without the risk that it might be  
25 perceived as being no longer financially self-

1 supporting, right?

2 MR. PELINO COLAIACOVO: That has the  
3 sound of a quote to it again.

4 MR. MATTHEW GHIKAS: It does have the  
5 sound, doesn't it. Would you agree?

6 MR. PELINO COLAIACOVO: Can you repeat  
7 the statement again.

8 MR. MATTHEW GHIKAS: Sure. I'll read  
9 it really carefully word for word for you.

10 If Manitoba Hydro has a larger balance  
11 sheet, then it would be better able to absorb shorter  
12 term financial shocks without the risk that it might  
13 be perceived as being no longer financially self-  
14 supporting?

15 MR. PELINO COLAIACOVO: Yes. So if  
16 you have a larger balance sheet and you have -- suffer  
17 a financial shock which affects your cash flow then  
18 what's changing is your cash flow to debt interest --  
19 or cash flow to debt metrics, right, but the ratio is  
20 going to change less because of the size of your  
21 balance sheet.

22 So, I think you have to put context  
23 around some of these kinds of terms.

24 MR. MATTHEW GHIKAS: So it's a yes,  
25 but? Yes...?

1 MR. PELINO COLAIACOVO: Yes.

2 MR. MATTHEW GHIKAS: And a more robust  
3 corporation could simply wait for the fortunes to turn  
4 rather than immediately seeking financial relief  
5 through higher rates; correct?

6 MR. PELINO COLAIACOVO: That's correct  
7 and -- and hence, I think the importance of having  
8 some level of reserves. The question is: What level  
9 is appropriate in a given set of circumstances?

10 MR. MATTHEW GHIKAS: And you'd agree  
11 with me that as a result, in that sense, a larger  
12 balance sheet can be cons -- understood as a ratepayer  
13 benefit, can't it?

14 MR. PELINO COLAIACOVO: Yes.

15 MR. MATTHEW GHIKAS: Now, on slide 10  
16 you refer to Manitoba Hydro equity is just a contra --  
17 customer contribution held in trust.

18 You and I are both lawyers. I assume  
19 you don't mean that literally?

20 MR. PELINO COLAIACOVO: No, it's  
21 colloquially.

22 MR. MATTHEW GHIKAS: I was going to  
23 ask you for an undertaking to provide the trust  
24 indenture, but okay. No -- okay.

25 Now, you haven't cited any authority

1 for the proposition that the Public Utilities Board  
2 should be considering the ratepayer cost of capital in  
3 formulation of rates, have you?

4 MR. PELINO COLAIACOVO: No.

5 MR. MATTHEW GHIKAS: You included the  
6 Bonbright principles in appendix C of your report.  
7 None of those principles specifies the use of  
8 ratepayer cost to capital?

9 MR. PELINO COLAIACOVO: Well,  
10 Bonbright's principles were developed in the context  
11 of investor-owned utilities. And in an investor-owned  
12 Utility there is a shareholder cost of capital, which  
13 occupies a large -- a large part of one of the  
14 chapters of the books.

15 He -- Bonbright did, in fact, when he  
16 wrote his first -- the first volume of the book in the  
17 late '50s or it came out in '61, actually specifically  
18 referenced pure cost recovery utilities like Ontario  
19 Hydro and Tennessee Valley Authority as a special  
20 case, that would have different issues and -- and so  
21 on. But I think you have to be careful to take  
22 historical context into account.

23 MR. MATTHEW GHIKAS: Okay. And you're  
24 familiar with deferral accounts? We've discussed  
25 these already?

1 MR. PELINO COLAIACOVO: Absolutely.

2 MR. MATTHEW GHIKAS: Okay. And  
3 they're common in the Utility industry, right?

4 MR. PELINO COLAIACOVO: They are.

5 MR. MATTHEW GHIKAS: And Manitoba  
6 Hydro has a number of them?

7 MR. PELINO COLAIACOVO: Yes.

8 MR. MATTHEW GHIKAS: Utilities use  
9 deferral accounts to capture forecast variances, for  
10 example?

11 MR. PELINO COLAIACOVO: And for many  
12 other purposes, yes.

13 MR. MATTHEW GHIKAS: And when there's  
14 forecast variance accounts, there -- the variances are  
15 held and then they're amortized into rates over time?

16 MR. PELINO COLAIACOVO: Typically.

17 MR. MATTHEW GHIKAS: And for example,  
18 it's routine for gas distribution utilities to have  
19 variance accounts around commodity costs; right?

20 MR. PELINO COLAIACOVO: Yes, they  
21 often do.

22 MR. MATTHEW GHIKAS: And they can also  
23 include accounts for smoothing out the rate impact of  
24 an unforeseen one time event; can't they?

25 MR. PELINO COLAIACOVO: Regulatory

1 accounts are often used for that purpose.

2 MR. MATTHEW GHIKAS: Like a drought?

3 MR. PELINO COLAIACOVO: Like a drought  
4 or the failure of a major client or, you know,  
5 customer that causes a loss and a bunch of other  
6 potential eventualities, storm damage, et cetera.

7 MR. MATTHEW GHIKAS: Okay. So with a  
8 forecast variance, for example, with a deferral  
9 account that captures forecast variance, if the -- if  
10 a positive balance results, and it must be returned to  
11 customers, that would mean the customer's rates turned  
12 out to be higher than they needed to be?

13 MR. PELINO COLAIACOVO: That's  
14 correct.

15 MR. MATTHEW GHIKAS: Okay. And the  
16 funds in the account but for the forecasting errors  
17 would otherwise have been available to the customers  
18 had the forecast been correct?

19 MR. PELINO COLAIACOVO: That's  
20 correct.

21 MR. MATTHEW GHIKAS: And while it's in  
22 the hands of the Utility and before it's returned to  
23 customers, the account balances can attract a return;  
24 correct?

25 MR. PELINO COLAIACOVO: Yeah,



1 depending on the regulatory jurisdiction, different  
2 interest rates are attached to deferral accounts.

3 MR. MATTHEW GHIKAS: And are you aware  
4 of any instances -- any instances anywhere where the  
5 regulator has approved a return for the benefit of  
6 ratepayers on a deferred credit to ratepayers  
7 calculated on the basis of a ratepayer cost of  
8 capital?

9 MR. PELINO COLAIACOVO: Typically,  
10 what is used on those deferral accounts, depending on  
11 the regulator and -- and the purpose of the account,  
12 often it's the --

13 MR. MATTHEW GHIKAS: Simple interest  
14 or AFDUC?

15 MR. PELINO COLAIACOVO: It's -- well,  
16 the actual interest rate that they use is the  
17 corporate paper 90 day rate in some cases. I mean,  
18 there are a bunch of other -- other bunch -- sorry,  
19 several other types of rates that sometimes are used.

20 MR. MATTHEW GHIKAS: Or AFUDC based on  
21 the weighted average cost to capital of the Utility.

22 MR. PELINO COLAIACOVO: That -- yeah,  
23 that's a high one often for those deferral accounts,  
24 but yes, sometimes.

25 MR. MATTHEW GHIKAS: But not the cost

1 of capital of individual customers?

2 MR. PELINO COLAIACOVO: Every customer  
3 has a different cost of capital. So, --

4 MR. MATTHEW GHIKAS: And they don't  
5 use any of them, do they?

6 MR. PELINO COLAIACOVO: Well some --  
7 some particular number has to be used.

8 MR. MATTHEW GHIKAS: Right. And --  
9 but not that number?

10 MR. PELINO COLAIACOVO: Well, there is  
11 no way to know what any individual customer's cost of  
12 capital actually is.

13 MR. MATTHEW GHIKAS: Right. And so  
14 they don't use it, right?

15 MR. PELINO COLAIACOVO: Well, they use  
16 a -- a stand-in for the collective cost of capital of  
17 all customers, you know --

18 MR. MATTHEW GHIKAS: They use the  
19 Utility's cost of capital, don't they?

20 MR. PELINO COLAIACOVO: Not always.

21 MR. MATTHEW GHIKAS: They use the  
22 Utility's borrowing rate?

23 MR. PELINO COLAIACOVO: Well, no, they  
24 use a borrowing rate and the regulator chooses which  
25 borrowing rate it is.

1 MR. MATTHEW GHIKAS: All right. Now,  
2 you've referenced sinking funds on slide 15. You say:  
3 "Ratepayers before or during  
4 construction contribute funds to  
5 later -- to reduce later burdens.  
6 The theory is that ratepayers will  
7 benefit from new assets when in-  
8 service and would prefer to spread  
9 the burden that would otherwise be  
10 severe initially."

11 Do you see that?

12 MR. PELINO COLAIACOVO: I do.

13 MR. MATTHEW GHIKAS: Okay. Now, that  
14 -- you have identified that effectively as one (1) of  
15 the options that's available to regulators for  
16 treatment of large assets, correct?

17 MR. PELINO COLAIACOVO: That's  
18 correct.

19 MR. MATTHEW GHIKAS: And ratepayers  
20 who contribute before or even during construction may  
21 not be the same ratepayers that are present when the  
22 assets are in service?

23 MR. PELINO COLAIACOVO: That's correct  
24 which is why sinking funds are always somewhat  
25 controversial.

1 MR. MATTHEW GHIKAS: And the funds  
2 themselves can't be pre-collected all at once, can  
3 they, that would defeat the purpose of a sinking fund?

4 MR. PELINO COLAIACOVO: Typically an -  
5 - an amount is collected every year over a period of  
6 years.

7 MR. MATTHEW GHIKAS: Right. And there  
8 may be a significant lag between the collection of  
9 funds and the asset going into service?

10 MR. PELINO COLAIACOVO: That's  
11 correct.

12 MR. MATTHEW GHIKAS: Now, you made a  
13 reference to -- you made a reference in your opening  
14 presentation to the fact that customers were financing  
15 these assets and they have 100 hour -- a hundred year  
16 life.

17 And you'd agree with me that the  
18 capital cost is depreciated over the hundred years?

19 MR. PELINO COLAIACOVO: Yes, it is.

20 MR. MATTHEW GHIKAS: And all those  
21 ratepayers are paying for the capital cost?

22 MR. PELINO COLAIACOVO: Capital cost  
23 associated operating cost and the cost of capital --

24 MR. MATTHEW GHIKAS: On an ongoing  
25 basis.

1 MR. PELINO COLAIACOVO: On an ongoing  
2 basis.

3 MR. MATTHEW GHIKAS: Thank you. Now -  
4 - all right. So let's -- you've presented in your  
5 report a social discount rate analysis and you  
6 compared the two (2) trajectories, the 3.95 and 7.9  
7 using various discount rates, right?

8 MR. PELINO COLAIACOVO: That's  
9 correct.

10 MR. MATTHEW GHIKAS: Okay. And you  
11 used the same discount rate for each trajectory?

12 MR. PELINO COLAIACOVO: That's  
13 correct. I believe I used 5 percent in both cases.

14 MR. MATTHEW GHIKAS: And you'd agree  
15 with me that when investors assess investment options,  
16 they will apply different discount rates to different  
17 investment options depending on the risk profiles?

18 MR. PELINO COLAIACOVO: And also  
19 depending on their preferences. When an investor is  
20 doing that kind of an analysis, they will use their  
21 own cost of funds in the -- in the analysis. The cost  
22 of funds that they believe they will face in making  
23 the investment.

24 MR. MATTHEW GHIKAS: And so, for  
25 example, if an investor was deciding whether to invest

1 in a blue chip stock or a speculative biotech stock,  
2 they will compare those investments by applying a  
3 higher discount rate to the speculative stock to  
4 account for the greater risk?

5 MR. PELINO COLAIACOVO: I think that's  
6 the kind of an analysis that an analyst does. It --  
7 it breaks down often when you're dealing with very  
8 speculative assets, like, tech investments as you just  
9 mentioned.

10 I don't think very many people apply  
11 discount rates when they're making a decision to  
12 invest in Amazon or what have you because those are --  
13 the metrics -- the value metrics are typically done on  
14 mult -- different multiples.

15 But discount rate methodology is  
16 typical for normal businesses that have recurring cash  
17 flows.

18 MR. MATTHEW GHIKAS: Right and the  
19 greater the risk associated with the investment,  
20 typically speaking, the higher the discount rate?

21 MR. PELINO COLAIACOVO: Yes.

22 MR. MATTHEW GHIKAS: Would you agree  
23 with me that the 3.95 percent rate trajectory leaves  
24 Manitoba Hydro and customers more exposed to the risk  
25 of severe rate spikes than the 7.9 trajectory?

1 MR. PELINO COLAIACOVO: I think it is  
2 a tautology to say that if you have more reserves you  
3 can resist more situations that require reserves.

4 So yes. If the 7.9 percent method --  
5 rate is going to build up larger reserves, then you  
6 will be able to resist more of the types of events  
7 that require reserves, but that doesn't necessarily  
8 mean it's a good idea to build up those reserves  
9 because you have to look at what the probability of  
10 those events are going to be and your actual  
11 requirement for those reserves before you decide to  
12 build them up.

13 MR. MATTHEW GHIKAS: So there'll be a  
14 longer period between achieving the targets with the  
15 3.95?

16 MR. PELINO COLAIACOVO: Yes. If the  
17 rates are 7.9 versus 3.95, you will reduce the debt  
18 ratio faster.

19 MR. MATTHEW GHIKAS: And interest  
20 rates represent a significant risk exposure for  
21 Manitoba Hydro because of the overall debt burden?

22 MR. PELINO COLAIACOVO: They -- yes,  
23 they are a risk for Manitoba Hydro.

24 MR. MATTHEW GHIKAS: And as the debt  
25 grows, the impact to the exposure to the interest

1 rates increases, right?

2 MR. PELINO COLAIACOVO: That's true,  
3 but only partly because as the debt is growing, it's  
4 being -- a significant portion of the debt is being  
5 put into fixed instruments that are being fixed at  
6 relatively low rates of interest for a long period of  
7 time.

8 So interest exposure -- you have to  
9 understand the treasury practice of -- of the Company,  
10 your amount of exposure is only to a fraction of the  
11 portfolio of debt because in any given year, you're  
12 only issuing bonds for a fraction of the total debt  
13 portfolio.

14 So any -- any large treasury department  
15 that is managing funds has rules about how much of  
16 their portfolio's going to be exposed to interest in  
17 any given period of time, which is why Manitoba Hydro  
18 has been doing thirty (30) year -- has been buying  
19 thirty (30) year bonds, for example.

20 So they don't have risk -- interest  
21 exposure on any of those debt issues for thirty (30)  
22 years.

23 MR. MATTHEW GHIKAS: And you'd agree  
24 with me, though, that Manitoba Hydro has to refinance  
25 close to \$20 billion in the next five (5) years.



1 MR. PELINO COLAIACOVO: I actually  
2 don't think exactly what it is. Perhaps by all means,  
3 provide me with that number, yes.

4 MR. MATTHEW GHIKAS: And all of that  
5 refinancing is subject to interest rate risk, right?

6 MR. PELINO COLAIACOVO: Anything that  
7 is being refinanced within a period is subject  
8 interest rate risk within that period.

9 MR. MATTHEW GHIKAS: And the higher  
10 the rate trajectory is the -- the less exposure to --  
11 the less debt accumulated. Sorry, let me back that  
12 up. It's 3:30 in the aft -- 4:30 in the afternoon.  
13 Scratch that.

14 So there's a longer period then before  
15 the -- with the 3.95, there's a longer period where  
16 Manitoba Hydro's exposed to drought risk?

17 MR. PELINO COLAIACOVO: Manitoba Hydro  
18 is always exposed to drought risk. The question is:  
19 How much in the way of reserves do you have at any  
20 given time to manage that drought risk.

21 MR. MATTHEW GHIKAS: Right, I phrased  
22 that badly, sir. What I meant was: In your -- in  
23 your evidence you calculated based on the history that  
24 in the beginning of each year there's roughly a 10  
25 percent chance of -- of a five (5) year drought?

1 MR. PELINO COLAIACOVO: Yes.

2 MR. MATTHEW GHIKAS: And there's more  
3 years involved and hence more risk? More years until  
4 you reach your targets?

5 MR. PELINO COLAIACOVO: So your res --

6 MR. MATTHEW GHIKAS: So you're at risk  
7 of financial distress in that period?

8 MR. PELINO COLAIACOVO: So you have --  
9 in a 7.9 percent scenario, you will have more reserves  
10 to manage the same amount of risk. The risk is the  
11 same. The hydrological risk doesn't change. The only  
12 thing that changes is the volume of your reserves.  
13 And -- and so --

14 MR. MATTHEW GHIKAS: The risk of  
15 financial distress is different?

16 MR. PELINO COLAIACOVO: Right.

17

18 (BRIEF PAUSE)

19

20 MR. MATTHEW GHIKAS: Okay. One (1) of  
21 the comments that you made was that, practically  
22 speaking, the ability to respond to distress by cost-  
23 cutting is limited by the need to continue to deliver  
24 utility services to customers, right?

25 MR. PELINO COLAIACOVO: That's

1 correct.

2 MR. MATTHEW GHIKAS: And there is a  
3 timing issue too. It takes time to generate savings  
4 from cuts, even if they are available?

5 MR. PELINO COLAIACOVO: That's  
6 correct.

7 MR. MATTHEW GHIKAS: And in fact, you  
8 ultimately dispense with cost-cutting as an option?

9 MR. PELINO COLAIACOVO: Practically  
10 speaking, yes.

11 MR. MATTHEW GHIKAS: And you really  
12 conclude that there are two (2) options to deal with  
13 the risk of drought; the -- either paying down debt to  
14 -- sorry, paying down debt to create reserves that may  
15 be accessed when financial distress conditions arise  
16 or responding to financial distress with rate  
17 increases?

18 MR. PELINO COLAIACOVO: I -- I think  
19 those are the two (2) options that face Utilities like  
20 Manitoba Hydro that are pure cost recovery utilities.

21 MR. MATTHEW GHIKAS: Okay. Now, you  
22 discussed at page 49 of your report. If we could turn  
23 there. Line 26, please, Diana. Oh, sorry, the --  
24 yeah, line -- line 26.

25 You refer to what would occur when a

1 drought -- what -- what options are available when --  
2 when a drought occurs. So you say:

3 "When they occur the cost of a  
4 drought could be charged to the  
5 ratepayers of the day through an  
6 immediate and severe rate increase  
7 or could be spread forward in time  
8 to ratepayers of the future by  
9 delaying recovery of some of the  
10 costs until the drought is over and  
11 the Utility financially recovers."

12 Now, dealing first with the option of  
13 spreading them forward in time to ratepayers. Future  
14 ratepayers didn't cover those costs -- cause those  
15 costs, did they?

16 MR. PELINO COLAIACOVO: That's  
17 correct. Drought is not caused by any ratepayer, it  
18 just happens.

19 MR. MATTHEW GHIKAS: And the  
20 possibility exists that some of the people who were  
21 customers during the drought may not be customers in  
22 the future?

23 MR. PELINO COLAIACOVO: Absolutely.

24 MR. MATTHEW GHIKAS: And -- but you've  
25 proposed that option here because you believe it's a

1 legitimate and fair option from a regulatory  
2 perspective?

3 MR. PELINO COLAIACOVO: The only  
4 options that you have are either to increase rates, or  
5 incur debt which has to be paid back over time to  
6 spread forward, if you will. Those are the two (2)  
7 options that are available.

8 MR. MATTHEW GHIKAS: Okay. All right.  
9 Now, let's deal with an immediate and severe increase  
10 as you put it.

11 The -- the option of an immediate and  
12 severe rate increase, you'd agree with me, that  
13 presumes that there is an appetite on the part of the  
14 regulator and government and the public to implement  
15 that?

16 MR. PELINO COLAIACOVO: I think that's  
17 correct.

18 MR. MATTHEW GHIKAS: And (1) one of  
19 the things that I've seen you cite in your evidence is  
20 that the agricultural sector would already be  
21 challenged with the weather and compounded by -- and  
22 it would be compounded by a severe rate spike?

23 MR. PELINO COLAIACOVO: That's true.

24 MR. MATTHEW GHIKAS: And there's an  
25 issue also of rate fatigue when there has been

1 consistent rate increases over time?

2 MR. PELINO COLAIACOVO: That's  
3 correct.

4 MR. MATTHEW GHIKAS: So if we could  
5 just turn back to book of documents, tab 8. Tab 8,  
6 this is your NFAT evidence, and I'm at page 27 again.  
7 And if we can scroll down. We've seen this -- this  
8 passage before. This is where we were talking about -  
9 - this is where we were talking about the self-  
10 sufficiency from successive losses in a -- in a  
11 drought.

12 And what you indicate here is -- we're  
13 at line 23 -- you indicate there is -- well, leading  
14 up to that you say, there's either a significant  
15 increase, or in line 23:

16 "If rates were kept low and Manitoba  
17 Hydro simply absorbed the financial  
18 losses for a period of years, then  
19 Manitoba Hydro's status of  
20 financially self-supporting entity  
21 could be called into question."

22 And just pause there for a moment,  
23 Differing the impact Manitoba Hydro would have to  
24 finance that in some way, wouldn't they?

25 MR. PELINO COLAIACOVO: That's

1 correct. And that -- that's really what the passage  
2 implies. So, if there's a drought and the drought  
3 results in a Company having to issue lots more debt  
4 and rates do not go up in concert with the drought  
5 conditions, then the debt will continue to accumulate  
6 and, eventually, that will, you know, bring into  
7 question the Company's self-supporting status if it  
8 didn't have enough reserves to begin with.

9 MR. MATTHEW GHIKAS: And so you go on  
10 to say:

11 "Credit rating agencies which  
12 currently do not include Manitoba  
13 Hydro debt as an obligation, The  
14 province of Manitoba may reconsider  
15 that position, at least for the  
16 portion of Manitoba Hydro's debt,  
17 which could have a significant  
18 implications for the government.  
19 What this illustrates is that  
20 despite the legislation under which  
21 Manitoba Hydro operates, a situation  
22 of financial distress could force  
23 the government to make a difficult  
24 political decision avoiding the  
25 political -- the potential for such

1 situations to arise is, therefore,  
2 assumed to be a priority for  
3 government."

4 And you would assume that the same  
5 thing is true today?

6 MR. PELINO COLAIACOVO: Yes. The --  
7 there is nothing in that passage that is different  
8 from -- from what I'm saying now.

9 There's no question that Manitoba Hydro  
10 requires reserves. The only thing that we're debating  
11 is what the size of those reserves should be. And  
12 then in addition to that, in very significant drought  
13 conditions, you know, serious attention has to be paid  
14 to rates and whether rates have to be increased.

15 MR. MATTHEW GHIKAS: Okay. I want a -  
16 - that concludes my cross-examination, Mr. Chairman.  
17 I want to thank you, Mr. Colaiacovo. I appreciate it.

18 THE CHAIRPERSON: Thank you. I want  
19 to return to a point which is I want to go back to  
20 your request to recall the panel, and I'd like Dr.  
21 Williams to respond to it.

22 But I'm -- what I would propose is to  
23 take a break for ten (10) minutes and then you could  
24 put in again exactly what you want. Dr. Williams  
25 would respond to it.



1 DR. BYRON WILLIAMS: I think I can --  
2 I can respond right now. So as I understand what is  
3 being suggested is -- as the Board's well aware the  
4 witnesses are able to respond to the case as -- as  
5 issues emerge.

6 What Manitoba Hydro is suggesting is  
7 that when they come up for re-examination, they're  
8 going to -- they propose to respond to the  
9 calculations presented by Mr. Colaiacovo because they  
10 believe it wasn't presented in his initial evidence,  
11 or his -- and -- and they're that they have a right to  
12 raise it.

13 I would -- I could confer with my  
14 colleague Ms. -- Mr. Hacault, but at least as I  
15 understand the rules, I don't see an issue with that.

16 THE CHAIRPERSON: Okay,

17 DR. BYRON WILLIAMS: So I will just  
18 say my one caveat is -- Mr. Hacault had to leave so I  
19 would -- would confer with them, but my preliminary --  
20 if that's what my understanding is, Mr. Colaiacovo has  
21 responded to the evolving evidence and Hydro is saying  
22 that this is something they haven't had a chance to  
23 reply to in rebuttal.

24 And so if that's -- if Mr. Hacault's  
25 understanding is consistent with mine, I don't see an

1 objection to that.

2 THE CHAIRPERSON: That's -- that's  
3 fine. The -- sorry, Mr. -- the problem I have is I  
4 didn't call on you after Mr. Ghikas put it forward and  
5 -- and after saying, well, we would take it under  
6 advisement or consideration, it dawned on me that I  
7 should be seeking your position before doing so.

8 DR. BYRON WILLIAMS: I appreciate  
9 that. We would've -- we would've -- we would've let  
10 our -- our concerns be known if we -- if we felt that,  
11 but I do appreciate the courtesy of the Panel.

12 THE CHAIRPERSON: I was concerned  
13 about your shyness, Dr. Williams, that's all. Ms.  
14 Ramage...?

15 MS. PATTI RAMAGE: Yes, in a rare  
16 moment of -- I agree with Mr. Williams' comments --

17 THE CHAIRPERSON: We will put that on  
18 -- highlight that on the record.

19 MS. PATTI RAMAGE: Yes. I think part  
20 of why we had Mr. Ghikas raise that is because there  
21 is time tentatively set for Manitoba Hydro to reply to  
22 any new evidence, but it was tentative and we wanted  
23 to make it clear to everyone that we intend to use  
24 that time.

25 THE CHAIRPERSON: That's fine. So I

1 have the positions, we'll -- we'll take it under  
2 advisement. We'll wait to hear from Mr. -- if you  
3 could talk to Mr. Hacault first thing tomorrow morning  
4 and then we'll deal with it later.

5 We're going to take ten (10) minutes  
6 before Board counsel starts.

7 DR. BYRON WILLIAMS: And just before  
8 the Board leaves, I do want to note our client Ms.  
9 DeSorcy is here and we were graced with the presence  
10 of Mr. Darwin Paupanakis from PCN who's travelled a  
11 long way to be down watching the rate hearing. He's  
12 not here now, but he was here earlier and he's a well-  
13 known presence in northern Manitoba so it was nice to  
14 see him here.

15 THE CHAIRPERSON: Thank you. Thank  
16 you, we'll adjourn until 5 to 5:00. Thank you.

17

18 --- Upon recessing at 4:43 p.m.

19 --- Upon resuming at 4:57 p.m.

20

21 THE CHAIRPERSON: Mr. Peters...?

22

23 CROSS-EXAMINATION BY MR. BOB PETERS:

24 MR. BOB PETERS: Thank you. Good  
25 afternoon, Mr. Colaiacovo.

1                   From your discussions with other  
2 counsel, the Board can take it that regulated  
3 utilities in Canada prepare financial statements based  
4 on accounting standards?

5                   MR. PELINO COLAIACOVO:    Yes, they do.

6                   MR. BOB PETERS:    And some have adopted  
7 what we've called US GAAP, or Generally Accepted  
8 Accounting Principles?

9                   MR. PELINO COLAIACOVO:    That's  
10 correct. Typically, utilities that have securities in  
11 the United -- that they issue in the United States or  
12 -- for various reasons. Hydro Quebec is US GAAP, and  
13 OPG is US GAAP, and a couple of others, I believe.

14                  MR. BOB PETERS:    And others have  
15 adopted the International Financial Reporting  
16 Standards?

17                  MR. PELINO COLAIACOVO:    That's  
18 correct.

19                  MR. BOB PETERS:    And that would  
20 include the -- the BC Hydros and the Nalcors that  
21 you've mentioned previously?

22                  MR. PELINO COLAIACOVO:    I believe -- I  
23 believe both of those are IFRS, yes.

24                  MR. BOB PETERS:    And both US GAAP and  
25 IFRS are reflective of accrual-based accounting?

1 MR. PELINO COLAIACOVO: Yes.

2 MR. BOB PETERS: And that's opposed to  
3 the cash accounting?

4 MR. PELINO COLAIACOVO: Yes.

5 MR. BOB PETERS: And I know you and  
6 Mr. Ghikas just lightly touched on that, but for  
7 accrual-based accounting, the costs are matched  
8 against the revenues from the expenditure of those  
9 costs?

10 MR. PELINO COLAIACOVO: Yes.

11 MR. BOB PETERS: And in cash-based  
12 accounting, the costs and revenues are expensed in the  
13 period that the cash is collected and spent?

14 MR. PELINO COLAIACOVO: That's right.

15 MR. BOB PETERS: And an issue that's  
16 raised by Manitoba Hydro in this proceeding is that  
17 the revenue requirement does not include capitalized  
18 interest?

19 MR. PELINO COLAIACOVO: That's  
20 correct. Capitalized interest becomes part of the  
21 revenue requirement when an asset goes into service.

22 MR. BOB PETERS: But should  
23 capitalized interest be included in the revenue  
24 requirement for rate setting before the asset is in  
25 service?

1 MR. PELINO COLAIACOVO: Well, in some  
2 special cases, certain regulators have made that  
3 decision to -- to -- I referenced it in -- in my  
4 presentation. When AFUDC is paid for during  
5 construction as opposed to included in -- in the value  
6 of the asset upon in-service. So -- but normally, all  
7 multiyear construction projects, the interest is  
8 included in the value of the asset when it -- it's  
9 brought into service.

10 MR. BOB PETERS: And doesn't that  
11 suggest, then, that the construction of that asset is  
12 financed a hundred percent by debt?

13 MR. PELINO COLAIACOVO: In an  
14 investor-owned utility, it's not, and in -- in an  
15 investor-owned utility, it's constructed using a  
16 combination of debt and equity at the regulated ratio.  
17 In a pure cost recovery utility, it could be done at a  
18 hundred percent debt, unless there are -- are excess  
19 customer contributions that -- that could be used for  
20 that purpose.

21 MR. BOB PETERS: And if the customer  
22 contributions are not being sought in advance of the  
23 asset coming into service, then it would be financed a  
24 hundred percent by debt until it was in service?

25 MR. PELINO COLAIACOVO: That's right.

1 MR. BOB PETERS: And then once in  
2 service, all of the attendant costs that had been  
3 previously capitalized will make their way to the  
4 income statement?

5 MR. PELINO COLAIACOVO: That's right.

6

7 (BRIEF PAUSE)

8

9 MR. BOB PETERS: The Board has heard  
10 from Manitoba Hydro about its new modified cash flow  
11 analysis, and I believe Manitoba Hydro's on the record  
12 of saying it's not considered a metric, but it is done  
13 to show their cash position. You're aware of that?

14 MR. PELINO COLAIACOVO: Yes.

15 MR. BOB PETERS: Is that Manitoba  
16 Hydro's cash flow to Capex a unique calculation used  
17 by Manitoba Hydro, or have you come across it  
18 elsewhere?

19 MR. PELINO COLAIACOVO: Cash flow to  
20 capital spending is not unheard of, it's just not a  
21 priority metric for most other utilities.

22 MR. BOB PETERS: When you say "it's  
23 not unheard of," is it an analysis that should be used  
24 to determine the sufficiency of rates?

25 MR. PELINO COLAIACOVO: Well, in -- in

1 order to -- well, if you have a target that you would  
2 like to achieve in terms of customer contributions  
3 compared to debt that is -- is used to construct new  
4 assets, then, you know, I think you need to -- to  
5 focus on that kind of a metric. It's -- it doesn't  
6 make a lot of sense to me to focus on the cash flow to  
7 Capex metric in -- in rates, because what you're  
8 really talking about is what debt ratio you want to  
9 have.

10                   So one flows from the other. If you  
11 want to achieve a certain debt ratio, then your cash  
12 flow to Capex is going to have to be at a certain  
13 level, depending on all your other expenditures.

14                   MR. BOB PETERS: When you and other  
15 counsel were reviewing some of the credit rating  
16 reports, is it your understanding that this cash flow  
17 to Capex analysis prepared by Manitoba Hydro is not  
18 used by any of the reporting agencies that you  
19 reviewed?

20                   MR. PELINO COLAIACOVO: Yeah, the --  
21 the reporting agencies will typically look at cash  
22 flow to debt, and they'll look at the financial  
23 structure, and they'll look at liquidity, and a whole  
24 bunch of other metrics, but cash flow to Capex is not  
25 on their list.



1                   MR. BOB PETERS:    Is it correct that  
2 credit-rating agencies would use a free cash flow or  
3 discretionary cash flow analysis?

4                   MR. PELINO COLAIACOVO:    They could.  
5 That's -- that's one (1) of the other -- free cash  
6 flow and discretionary cash flow metrics analysis are  
7 typically done for investor-owned utilities.  Public  
8 power-type utilities are -- it -- it's not a big  
9 focus.

10                  MR. BOB PETERS:    Can you briefly  
11 explain what is the cash -- or sorry, the free cash  
12 flow, or the discretionary cash flow analysis?

13                  MR. PELINO COLAIACOVO:    Yeah.  The --  
14 and this -- this was covered in my report, but free  
15 cash flow is when you look at the company's cash flow  
16 after deducting for working capital and maintenance  
17 Capex, maintenance capital required expenditures.  
18 Discretionary free cash flow is when you then also  
19 subtract required dividend payments from that.  And so  
20 what you end up with is -- is almost a residual cash  
21 flow that the Company has at its disposal after  
22 filling all those various and sundry commitments.

23                  MR. BOB PETERS:    Well, let's -- let's  
24 turn, if we could, to Board counsel's second book of  
25 documents, Exhibit 42-2, and over to page 325.  I'm

1 going to show you figure 1 on a -- on the screen, Mr.  
2 Colaiacovo, and I'm -- I'm not sure if you've had an  
3 opportunity to review this, or you want to review the  
4 question that gave rise to it. But maybe we can go  
5 back a page, please, Diana, to 324 and just get the  
6 question (a).

7 MR. PELINO COLAIACOVO: Right.

8 MR. BOB PETERS: Do you see that --

9 MR. PELINO COLAIACOVO: Yes.

10 MR. BOB PETERS: -- Mr. Colaiacovo?

11 And now if we turn to the chart on page 325, we see a  
12 figure 1, which is a -- it's a free cash flow analysis  
13 at the 7.9 percent rate trajectory that has been  
14 discussed?

15 MR. PELINO COLAIACOVO: Yes, I see  
16 that.

17 MR. BOB PETERS: So when the -- when  
18 the Board is looking at this, Mr. Colaiacovo, the  
19 Board notice -- the Board will notice that at least  
20 until 2023, Manitoba Hydro has cash flows that are  
21 less than their property, plant, and equipment  
22 expenditures, correct?

23 MR. PELINO COLAIACOVO: That's  
24 entirely consistent with their Major Capital  
25 Expenditure Plan.

1                   MR. BOB PETERS:    But -- and that's  
2 also consistent with their request of this Board is  
3 that they want to keep -- they -- they'd like to,  
4 looking at the chart, increase the red bars by  
5 decreasing the blue bars as much as possible. They'd  
6 like to pay down the interest as early as possible?

7                   MR. PELINO COLAIACOVO:   Well, these  
8 are actual expenditures on property, plant, and  
9 equipment. I -- I'm not --

10                  MR. BOB PETERS:    All right. I -- I  
11 realized when I said it, it's --

12                  MR. PELINO COLAIACOVO:   Interest.

13                  MR. BOB PETERS:    -- I'm talking about  
14 the interest behind it, but the actual expenditures at  
15 this point in time are exceeding the cash flow from  
16 operations?

17                  MR. PELINO COLAIACOVO:   That's  
18 correct, yeah.

19                  MR. BOB PETERS:    And at a certain  
20 point in time, that changes, correct?

21                  MR. PELINO COLAIACOVO:   It does.

22                  MR. BOB PETERS:    And why does it  
23 change?

24                  MR. PELINO COLAIACOVO:   Well, the  
25 major capital project is finished, and they are

1 spending money only on what amounts to maintenance  
2 capital expenditures -- maintenance Capex. So after  
3 2023, the blue bars are quite low. Those are our  
4 typical annual expenditures to replace assets that  
5 have worn out.

6 MR. BOB PETERS: And the -- the  
7 maintenance Capex I think were your words. We've  
8 heard words in this hearing, sustaining capital, base  
9 capital, or business operations capital. All the  
10 same?

11 MR. PELINO COLAIACOVO: All the same -  
12 - all the same thing.

13 MR. BOB PETERS: All right. And so  
14 what we do see is the cash flow eventually exceeds the  
15 amount of money being spent on particular assets that  
16 are in the property, plant, and equipment?

17 MR. PELINO COLAIACOVO: Correct.

18 MR. BOB PETERS: So what can Manitoba  
19 Hydro do once those red bars exceed the blue bars on  
20 page 325 of Exhibit 42-2?

21 MR. PELINO COLAIACOVO: It essentially  
22 allows them to retire debt in significant quantities.

23 MR. BOB PETERS: Is that their only  
24 option with the money?

25 MR. PELINO COLAIACOVO: Well, either

1 retire debt or spend it on other large assets that are  
2 not currently contemplated. But in a pure cost  
3 recovery utility, those are your options. There is --  
4 there is no -- there is no one to pay profits to in a  
5 pure cost recovery utility.

6 MR. BOB PETERS: And because, Mr.  
7 Colaiacovo, the cash flow exceeds the property, plant,  
8 and equipment starting in approximately 2023, that  
9 tells this Board that all of those business operations  
10 capital expenses, or what we've called sustaining  
11 capital, those are already being paid for by the cash  
12 flow from operations?

13 MR. PELINO COLAIACOVO: Yes.

14 MR. BOB PETERS: All right. If we can  
15 look at -- turn ahead, please, to -- we'll go to  
16 figure 4 on page 328 of the same document. This rate  
17 trajectory on this graph, Mr. Colaiacovo, is done at a  
18 -- a 3.95 percent rate trajectory for twenty (20)  
19 years. Are you prepared to accept that?

20 MR. PELINO COLAIACOVO: Yes.

21 MR. BOB PETERS: And in terms of the  
22 comments, is it correct that in this example, the year  
23 in which cash flow from operations is greater than  
24 their property -- than -- than the property, plant,  
25 and equipment expenditures is pushed out to

1 approximately 2024?

2 MR. PELINO COLAIACOVO: Yes, it --  
3 it's one (1) year later.

4

5 (BRIEF PAUSE)

6

7 MR. BOB PETERS: However, on this  
8 figure 4, it would be noticeable that the height of  
9 the cash flow bars is not as high as it was under the  
10 7.9 percent scenario, correct?

11 MR. PELINO COLAIACOVO: Yes, correct,  
12 and --

13 MR. BOB PETERS: And that -- and that  
14 translates to Manitoba Hydro having less cash  
15 available to pay off, as you said earlier, to pay off  
16 the debt?

17 MR. PELINO COLAIACOVO: Yes.

18

19 (BRIEF PAUSE)

20

21 MR. BOB PETERS: In one (1) of your  
22 comments, Mr. Colaiacovo, to one (1) of the other  
23 counsel, you had indicated that it would be useful to  
24 have information about the relationship between the  
25 Capex and depreciation. Do you recall that?

1 MR. PELINO COLAIACOVO: Yes.

2 MR. BOB PETERS: If we could turn to  
3 what is been marked as Manitoba Hydro Exhibit 89, this  
4 is, I believe, the latest -- or one (1) of the latest  
5 integrated financial forecast runs that's on the -- on  
6 the record.

7

8 (BRIEF PAUSE)

9

10 MR. BOB PETERS: And if we turn to  
11 page 6 of 7, we're into the cash flow statement of  
12 this document, Mr. Colaiacovo.

13 MR. PELINO COLAIACOVO: M-hm.

14 MR. BOB PETERS: You're familiar  
15 generally with it?

16 MR. PELINO COLAIACOVO: Yes.

17 MR. BOB PETERS: And I want to  
18 understand or have the panel understand your comment.

19

20 (BRIEF PAUSE)

21

22 MR. BOB PETERS: And it -- it was a --  
23 both a discussion about Manitoba Hydro's revenue  
24 requirement includes depreciation expense, correct?

25 MR. PELINO COLAIACOVO: Yes.

1 MR. BOB PETERS: But it's largely at  
2 historical -- at -- at -- on historical assets?

3 MR. PELINO COLAIACOVO: Yes.

4 MR. BOB PETERS: And that doesn't  
5 equal the cost of the replacement assets?

6 MR. PELINO COLAIACOVO: Well, the --  
7 the net in -- the investment in property, plant, and  
8 equipment that you see on this line, the -- under  
9 investing activities, proper -- property, plant, and  
10 equipment, net of customer -- net of contributions,  
11 you can see that it's -- it's very large in the 2017  
12 to 2022 period, and almost 3 billion -- over 3  
13 billion, et cetera. And then after 2023, it goes  
14 down. That -- that's consistent with the other table  
15 that we were just looking at before on -- on the blue  
16 bars, which is the investment in capital assets.

17 But there's also a depreciation figure,  
18 which does not appear on the cash flow statement.  
19 Depreciation appears on the -- on the income  
20 statement, so it -- it's probably on the previous  
21 page, would be my guess. And --

22 MR. BOB PETERS: Let me -- let me  
23 interrupt you because I want to take you there. So  
24 let's -- let's stick with what you've just brought to  
25 the Board's attention.



1                   In the year 2017, you've selected the  
2 \$2.925 billion as the property, plant, and equipment,  
3 net of contribution number shown on Manitoba Hydro's  
4 cash flow statement?

5                   MR. PELINO COLAIACOVO:     Right.

6                   MR. BOB PETERS:     And against that  
7 number, if we go back and check on, I suppose, page 2  
8 of 7, we'll see for 2017, Mr. Colaiacovo, under the --  
9 along the depreciation and amortization line, that  
10 there's \$375 million of an expense for depreciation  
11 being charged to ratepayers?

12                  MR. PELINO COLAIACOVO:     That's right.

13                  MR. BOB PETERS:     And that makes  
14 Manitoba Hydro's point that their property, plant, and  
15 equipment is multiples of the depreciation expense  
16 that they're receiving?

17                  MR. PELINO COLAIACOVO:     That's right.

18 They're -- they're investing far more than  
19 depreciation, so as a result, the asset base is  
20 growing. The -- the rate base of the Company is  
21 growing. More -- more -- they're investing in more  
22 utility assets than are being worn out, so it's  
23 getting bigger.

24                  MR. BOB PETERS:     All right.

25 Remembering the blue bars and the red bars as you do,

1 let's turn to the 2024 year on page 6 of 7. And on  
2 page 6 of 7, we've seen at a point in time when those  
3 red and blue bars are relatively the same size, that  
4 signals the end of the major capital projects, and  
5 we're back to our base sustaining business operations  
6 capital?

7 MR. PELINO COLAIACOVO: That's  
8 correct.

9 MR. BOB PETERS: And here it shows  
10 nice and round at \$700 million in the forecast,  
11 correct?

12 MR. PELINO COLAIACOVO: That's  
13 correct.

14 MR. BOB PETERS: So, remembering that  
15 \$700 million from 2024, let's go back to page 2 of 7  
16 of the same document, and we'll see that the  
17 depreciation expense under that column for 2024 is  
18 \$714 million, correct?

19 MR. PELINO COLAIACOVO: That's  
20 correct.

21 MR. BOB PETERS: So in essence, after  
22 Keeyask is constructed, it appears that the  
23 depreciation expense will -- will parallel, if I may,  
24 what the additions are to capital will be going  
25 forward.

1 MR. PELINO COLAIACOVO: Broadly  
2 speaking, it means that the asset base is not going to  
3 be growing anymore at that point, that they are  
4 spending enough money on capital to replace the  
5 depreciated assets.

6

7 (BRIEF PAUSE)

8

9 MR. BOB PETERS: I want to turn to  
10 some questions about drought risk and drought.

11

12 (BRIEF PAUSE)

13

14 MR. BOB PETERS: And would it be --  
15 would it be correct to understand your report, Mr.  
16 Colaiacovo, to be telling the Board that instead of  
17 targeting a 25 percent equity number to meet drought  
18 risk, Manitoba Hydro can access debt as a more  
19 effective way of addressing that particular risk?

20 MR. PELINO COLAIACOVO: I -- I think  
21 the point that I was making was, how do you -- how is  
22 Manitoba Hydro justifying the 75 percent target? And  
23 -- and one (1) of the things that they are talking  
24 about in their application is managing risk. Drought  
25 is a very significant risk, and that drought risk

1 needs to be managed. Does drought risk itself require  
2 that the target be 75 percent?

3                   And so I looked at some of the  
4 information that was provided by Manitoba Hydro on  
5 potential five (5) and seven (7) year droughts to see  
6 what happens during those five (5) and seven (7) year  
7 droughts under each of the rate paths. And I believe  
8 in -- in my presentation, I referred to an IR that the  
9 PUB made of Manitoba Hydro, and where I got the  
10 figures for -- for that analysis that they had  
11 provided.

12                   MR. BOB PETERS: Give me a second,  
13 please, to find where you referred to that in your  
14 slides. I believe it was on slide 29 of your  
15 Coalition Exhibit 45. Is this what you were referring  
16 to, Mr. Colaiacovo?

17                   MR. PELINO COLAIACOVO: No. I think  
18 it --

19                   MR. BOB PETERS: Sorry, 28, I think  
20 might be the page.

21

22                   (BRIEF PAUSE)

23

24                   MR. PELINO COLAIACOVO: Yeah, that was  
25 -- and so the one I -- I'm referring to is 31, on page

1 31. So are there, you know, reserves for hydrology  
2 risk, and do you need 25 percent and -- and hence a 75  
3 percent debt ratio in order to manage droughts?

4 And so PUB/MH-2-40, in that IR, there  
5 are some tables provided that show the consequences of  
6 droughts under the 3.95 percent rate path, and also  
7 under the 7.9 percent rate path. If we could pop  
8 those up, I think if you --

9 MR. BOB PETERS: All right, well, let  
10 me -- let me take you there. It's, again,  
11 conveniently located in Volume IV, Board counsel's  
12 book of document, page 149.

13

14 (BRIEF PAUSE)

15

16 MR. BOB PETERS: But before you --  
17 before we get into this report -- or this page,  
18 please, Mr. Colaiacovo, when we talk about Manitoba  
19 Hydro's reserves, Manitoba Hydro today has the largest  
20 retained earnings in its history, does it not?

21 MR. PELINO COLAIACOVO: I believe that  
22 to be correct, subject to check.

23 MR. BOB PETERS: And do you have an  
24 idea as to the approximate amount of that retained  
25 earnings?

1 MR. PELINO COLAIACOVO: I -- I believe  
2 it's in the high 2 billion range.

3 MR. BOB PETERS: All right. So can we  
4 round it off to 3 billion?

5 MR. PELINO COLAIACOVO: Sure.

6 MR. BOB PETERS: All right. So let's  
7 just keep that number in mind. Is that what you were  
8 talking to other lawyers about this afternoon, about  
9 having a reserve?

10 MR. PELINO COLAIACOVO: Yes.

11 MR. BOB PETERS: Call it -- call it --  
12 and I know you don't like necessarily the words  
13 'equity', but retained earnings, or customer  
14 contributions?

15 MR. PELINO COLAIACOVO: That's --  
16 that's correct.

17 MR. BOB PETERS: So there's  
18 approximately \$3 billion in Manitoba Hydro now that's  
19 been put there by the ratepayers?

20 MR. PELINO COLAIACOVO: That's right.

21 MR. BOB PETERS: And those ratepayers,  
22 I suppose notionally would either be -- you said  
23 earlier, Well, the exports can help, but it's going to  
24 be on domestic ratepayers to make sure that it's --  
25 it's there.

1 MR. PELINO COLAIACOVO: I -- I think  
2 because exports -- because Mani -- Manitoba Hydro is a  
3 price taker and exports, it gets whatever revenue it  
4 gets from exports, but domestic ratepayers are  
5 ultimately responsible for the costs. So whatever  
6 cost is not covered by exports must be covered by  
7 Manitoba ratepayers. And so that -- that's what I  
8 mean by -- by that term.

9 MR. BOB PETERS: Okay. Well, let's  
10 turn to figure 2 on this page, the bottom third of the  
11 page, or quarter. And Manitoba Hydro has provided  
12 some impacts to its interim -- to its integrated  
13 financial forecast that it has filed subsequent to the  
14 Board's interim rate decision. And against that,  
15 they've put sensitivities of the different periods of  
16 drought, correct.

17 MR. PELINO COLAIACOVO: That's  
18 correct.

19 MR. BOB PETERS: And this was a table  
20 that I think you said you were referring to when we  
21 got to --

22 MR. PELINO COLAIACOVO: Yeah.

23 MR. BOB PETERS: -- eventually to your  
24 slide 31?

25 MR. PELINO COLAIACOVO: I actually

1 referred to the 3.95 percent because the impacts under  
2 3.95 percent were more severe. But I just wanted to  
3 make the point that even though they were more severe,  
4 they were still supportable.

5 I think in this figure, under 7.9  
6 percent rate increases for six (6) years, I think --  
7 what you see is the -- the top line, Manitoba Hydro  
8 '16 update with interim is -- is under reference  
9 scenarios under their P50 hydrological scenario,  
10 retained earnings rise from 3.2 billion in 2019/'20,  
11 all the way up to almost 8 billion in 2028/'29.

12 And then they have five (5) and seven  
13 (7) year drought sensitivities, beginning in -- in two  
14 (2) different years, 2019/'20 and 2022/'23. And --  
15 and you can see that under a drought, the retained  
16 earnings are less than they would be in good water  
17 conditions, which is the top line.

18 MR. BOB PETERS: So that means, Mr.  
19 Colaiacovo, that even though in that scenario,  
20 Manitoba Hydro's drought isn't reducing the retained  
21 earnings of the Corporation, but it's not allowing it  
22 to accumulate as much as it otherwise would have?

23 MR. PELINO COLAIACOVO: Right. And --  
24 and so I think that begs a bit of a question, because  
25 if the point of having reserves is to withstand a



1 drought, why are you actually -- why are your rates so  
2 high that during a drought, you're still building your  
3 reserves? It -- it's a bit problematic, whereas if  
4 you look at the 3.95 percent scenario in figure 1 --

5 MR. BOB PETERS: Diana, if we could  
6 scroll to figure 1, at the top of the page.

7 MR. PELINO COLAIACOVO: What you see  
8 there is that you're starting with \$3 billion of  
9 retained earnings, and there are drought situations,  
10 and over the course of the drought, your retained  
11 earnings do fall, which is what you would expect to  
12 happen during a drought, but -- and -- and that's why  
13 I talked about it. I -- even -- even with \$3 billion  
14 of retained earnings, you still have enough retained  
15 earnings to withstand a seven (7) year drought.

16 In the '22/'23 situation, if you -- you  
17 see -- in 2022/'23, you begin with \$3.2 billion, and  
18 after a seven (7) year drought, you still have almost  
19 a billion dollars. So you have enough reserves to  
20 withstand a seven (7) year drought as depicted in this  
21 -- in -- in this rate path.

22 In the 7.9 percent rate path, not only  
23 do you have enough reserves, but you're actually still  
24 building reserves during a drought. So it -- it  
25 raises some questions about whether that 7.9 percent

1 rate increase is actually required.

2 MR. BOB PETERS: All right. Let me --  
3 let me see if I've got this on the record for the  
4 panel. Looking at the 3.9 percent rate trajectory  
5 shown in figure 1, you're acknowledging that retained  
6 earnings start off at about \$3 billion. And let's  
7 pick the seven (7) year drought starting in '22/'23,  
8 they end up at about \$2 billion, 2.1 billion, correct?

9 MR. PELINO COLAIACOVO: They end up at  
10 about 1 billion. They fall --

11 MR. BOB PETERS: I'm sorry.

12 MR. PELINO COLAIACOVO: -- by 2  
13 billion.

14 MR. BOB PETERS: I'm sorry. Yes. I  
15 haven't done the math. So Manitoba Hydro is still  
16 left with approximately a billion dollars of retained  
17 earnings, and that's -- that's on the 3.9 percent  
18 retai -- rate trajectory?

19 MR. PELINO COLAIACOVO: That's right.  
20 And -- and clearly, that's less than you want to have,  
21 but you just suffered a seven (7) year drought. So  
22 it's -- that's why you have reduced retained earnings,  
23 because you just suffered a seven (7) year drought.  
24 And --

25 MR. BOB PETERS: Okay. Let me --

1 MR. PELINO COLAIACOVO: -- a seven (7)  
2 year drought is a pretty uncommon event.

3 MR. BOB PETERS: All right. And is  
4 there any magic to the year in which the drought  
5 starts, from your perspective?

6 MR. PELINO COLAIACOVO: Well, the --  
7 the timing of the drought just is a question of how  
8 sensitive you happen to be to droughts in -- in that  
9 particular year.

10 MR. BOB PETERS: Starting the drought  
11 before Keeyask or after Keeyask is one (1) of those  
12 sensitivities?

13 MR. PELINO COLAIACOVO: Exactly.

14 MR. BOB PETERS: So let's go to the  
15 bottom, again, figure 2, and let's follow this through  
16 with the seven point nine (7.9) -- sorry. Let's  
17 follow through with the rate increases that are  
18 requested and are indicative in Manitoba Hydro  
19 integrated financial forecast 16 update with interim.  
20 And let's just pick the seven (7) year drought line  
21 starting in 2019/'20. Are you with me?

22 MR. PELINO COLAIACOVO: Yeah. And in  
23 that case, you're starting with \$3 billion of retained  
24 earnings. You know, you're suffering a drought, but  
25 by the end of the seven (7) year drought, you actually

1 added a billion dollars of retained earnings.

2 MR. BOB PETERS: So -- so that in and  
3 of itself tells the Board that the rates were  
4 sufficient to withstand the drought without eroding  
5 any of the retained earnings?

6 MR. PELINO COLAIACOVO: That's right.

7 MR. BOB PETERS: But it then raises  
8 the question -- and I want to understand your point,  
9 is if the Board has a reserve, and we have this seven  
10 (7) year drought as depicted starting in 2019/'20,  
11 there is, in fact, no need to utilize the reserve  
12 because the rate increases have already absorbed --

13 MR. PELINO COLAIACOVO: That's  
14 correct.

15 MR. BOB PETERS: -- the impact?

16 MR. PELINO COLAIACOVO: Yeah. You're  
17 -- the rates are so high that you'd -- actually don't  
18 need reserves, so it -- I mean, if -- if the purpose  
19 of reserves is to withstand droughts, and you're not  
20 actually ever using a reserve during a seven (7) year  
21 drought, then how is that the purpose of the reserve?

22 I mean, your -- your rates are so high  
23 that a drought becomes irrelevant. It -- it -- you --  
24 you need -- there -- there needs to be a scenario  
25 that's much, much worse than a seven (7) year drought,

1 given the -- the level of rates that -- that are  
2 there.

3 MR. BOB PETERS: I think for the first  
4 time in Public Utilities Board hearings, you and Mr.  
5 Ghikas talked about dead money, and the essence of  
6 that, and I -- I -- we -- we got that full indication,  
7 but the panel should take from that discussion your  
8 contention is that the rate request would be  
9 considered inefficient when you consider the cost of  
10 capital of ratepayers?

11 MR. PELINO COLAIACOVO: Yes.

12 MR. BOB PETERS: And as I understood  
13 your evidence when you were answering questions for  
14 Mr. Ghikas, you were saying to the panel, Every  
15 ratepayer has their own opportunity cost of their  
16 money, and that's -- that's how you should look at it,  
17 but because you can't, you picked a proxy?

18 MR. PELINO COLAIACOVO: That's right.

19 MR. BOB PETERS: Did I understand that  
20 the proxy you assumed was 3 percent real and then 2  
21 percent for inflation, correct?

22 MR. PELINO COLAIACOVO: That's  
23 correct.

24 MR. BOB PETERS: And that came out to  
25 a social discount rate of 5 percent?

1 MR. PELINO COLAIACOVO: That's  
2 correct.

3 MR. BOB PETERS: And that 5 percent,  
4 I'm not sure if I read it in your report. I think I  
5 did. That wro -- that number is used by the  
6 government of Canada?

7 MR. PELINO COLAIACOVO: Yes. Both the  
8 government of Canada and the government of the United  
9 States have used that number for a variety of  
10 purposes, usually when they're doing long-term  
11 analysis of -- of different policies.

12

13 (BRIEF PAUSE)

14

15 THE CHAIRPERSON: Mr. Colaiacovo,  
16 while Mr. Peters is looking for this, can I just ask a  
17 question in relation to figure 1 and figure 2?

18 MR. PELINO COLAIACOVO: Sure.

19 THE CHAIRPERSON: These numbers don't  
20 preclude the Board from either providing an increased  
21 rate when a drought happens, or a rate rider to -- to  
22 address the issue of a drought?

23 MR. PELINO COLAIACOVO: No. Both of -  
24 - both of these figures are done on the assumption  
25 that the Board makes no changes to rates while the

1 drought is happening.

2 THE CHAIRPERSON: Okay.

3 MR. PELINO COLAIACOVO: So the rates  
4 continue to rise at the -- the percentages that are  
5 listed for each of the two (2) figures. So if the --  
6 if the -- in the case of the three point nine-five  
7 (3.95), if the drought started, and at some point  
8 during the drought, the rates were increased by more  
9 than 3.95 percent, than the -- the impact of the  
10 drought, financially speaking, would be less.

11 THE CHAIRPERSON: All right. Thank  
12 you.

13

14 CONTINUED BY MR. BOB PETERS:

15 MR. BOB PETERS: Mr. Colaiacovo, the  
16 last area that I wanted to talk to you about is on --  
17 is in Volume II of Board counsel's book of documents,  
18 Exhibit 42-2, page 388. And this is a response that  
19 you prepared to an information request?

20 MR. PELINO COLAIACOVO: Yes.

21 MR. BOB PETERS: And you spoke about  
22 it without drawing it, I think, to the Board's  
23 attention when you were being asked questions by other  
24 counsel, but you prepared what I understand here is to  
25 be a relatively simplistic example to determine

1 whether ratepayers, in the vernacular, are better off  
2 on a rate path at 7.9 percent, as depicted at the top  
3 half of the page, compared to those same ratepayers at  
4 a 3.95 percent rate trajectory, shown on the bottom of  
5 the page?

6 MR. PELINO COLAIACOVO: That's  
7 correct.

8 MR. BOB PETERS: The top of the page,  
9 if I can draw your attention over to year 11, we note  
10 that under the price increase line, there is a  
11 negative nineteen point seven-five (-19.75), correct?

12 MR. PELINO COLAIACOVO: That's  
13 correct.

14 MR. BOB PETERS: And this represents  
15 the adjustment that Manitoba Hydro mathematically  
16 calculates would be required to stay at a 25 percent  
17 equity level after they've achieved it in their year  
18 10?

19 MR. PELINO COLAIACOVO: That's  
20 correct. Yeah. Both -- both the PUB and I asked IRs  
21 on this issue asking Manitoba Hydro to -- to prepare a  
22 rate path that would maintain the 75/25 debt ratio  
23 once it was achieved. And so you -- you know, in year  
24 11, in order to -- to -- assuming that the -- the  
25 75/25 was achieved in year 10, and you didn't want it



1 to change, then you would have to reduce rates by  
2 19.75 percent in year 11. You'd reduce them again by  
3 3 percent in year 12. You'd reduce them again in --  
4 in year 13, and then the rates kind of go up and down  
5 a little bit over the subsequent years.

6 MR. BOB PETERS: All right. In  
7 previous discussions with a Hydro witnesses, you can  
8 take it subject to check that they've made no promises  
9 for the future, and they're not in a position to, and  
10 you understand that?

11 MR. PELINO COLAIACOVO: Yeah. This is  
12 a purely mathematical exercise.

13 MR. BOB PETERS: And in this  
14 particular case, let's cut to the chase, demonstrate  
15 on here what the impact is discounted at 5 percent for  
16 the rate path at the top and the rate path at the  
17 bottom.

18 MR. PELINO COLAIACOVO: Well, so in --  
19 in the last few lines of -- under the 7.9 percent,  
20 there is the annual nominal cost of power, accumulated  
21 nominal cost of power, but then also the discounted  
22 annual and cumulative amounts. And so you can see  
23 there's obviously a -- a significant difference  
24 between those two (2), because you're applying a 5  
25 percent discount rate.

1                   But after ten (10) years, the  
2 cumulative nominal cost of power under the 7.9 percent  
3 rate path is fourteen thousand four hundred and twelve  
4 (14,412), but in discounted dollar terms, it's ten  
5 thousand eight hundred and fifty-two (10,852). And so  
6 if you scroll down, the 3.95 percent rate path, at ten  
7 (10) years. The nominal cost is twelve thousand  
8 (12,000), and the -- the discounted is nine thousand  
9 four hundred (9,400). So under the 3.95 percent,  
10 you're paying less in the first ten (10) years, which  
11 makes complete sense, because your rates are rising  
12 more slowly.

13                   Now in year 11, under the 7.9 percent  
14 rate path, rates actually come down. Under the 3.95  
15 percent rate path, they keep going up. And -- and so  
16 this is the value of -- of discounting. You -- you  
17 want to understand, you know, the -- the value of  
18 making higher payments early and lower payments later  
19 versus a -- a reverse pattern, where you're making  
20 lower payments early and then higher payments later.

21                   And -- and so if you move forward from  
22 the -- the ten (10) to the fifteen (15) year column,  
23 you'll see that in the 3.95 percent rate path, under  
24 the -- the fifteen (15) year column, the discounted  
25 amount is thirteen thousand seven hundred and seventy-

1 five (13,775), whereas above, you can see that in the  
2 same column, fifteen (15) years, under 7.9 percent,  
3 it's still higher. It's fourteen thousand five  
4 hundred and thirty-nine (14,539). Despite the fact  
5 that there was a big rate decrease in year 11, it's  
6 not enough to catch up to the -- the -- on a  
7 discounted basis, to having had a lower rate path to  
8 begin with.

9 MR. BOB PETERS: And mathematically,  
10 Mr. Colaiacovo, in year 19, just to conclude this, if  
11 we can scroll to the far right-hand side of the  
12 charts, applying your same logic, the -- the  
13 cumulative discounted cost at the 7.95 percent path is  
14 sixteen thousand nine hundred and twenty-nine dollars  
15 (\$16,929)?

16 MR. PELINO COLAIACOVO: Yeah, and --  
17 and --

18 MR. BOB PETERS: That's almost the  
19 same as the sixteen thousand eight hundred and twenty-  
20 eight -- twenty-two dollars?

21 MR. PELINO COLAIACOVO: That's right.

22 MR. BOB PETERS: So eventually, they -  
23 - at the end, their endpoint is relatively the same?

24 MR. PELINO COLAIACOVO: That's right,  
25 because -- and -- and you can see that even under the

1 3.95 percent, with 3.95 percent, you achieve 75/25 in  
2 year 17, and then rates start to fall. And so from  
3 that point into the future, in fact, you will have  
4 exactly the same rates after year 19.

5 But for ratepayers, what this is  
6 telling you is that under the 3.95 percent rate path,  
7 ratepayers are paying a lot less in the early years,  
8 and -- and then they're paying somewhat more in later  
9 years until they equalize, where it's the reverse at  
10 the 7.9 percent.

11 MR. BOB PETERS: Okay. I have your  
12 point. And I would like to thank Mr. Chair, Mr.  
13 Colaiacovo for his evidence and his answer to my  
14 questions. Thank you.

15 THE CHAIRPERSON: Thank you, Mr.  
16 Peters. Dr. Williams, any re-examination?

17 DR. BYRON WILLIAMS: The only question  
18 I had was taken by the Board Chair, so we thank the  
19 Intervenors, Hydro, and PUB counsel for the -- their  
20 questions, and we have no re-examination.

21 THE CHAIRPERSON: Thank you. Mr.  
22 Colaiacovo, thank you very much for today. It's been  
23 a long day. We appreciate your attendance and  
24 assistance to the Board. Thank you.

25 MR. PELINO COLAIACOVO: Thank you.

1

2

(PANEL STANDS DOWN)

3

4

THE CHAIRPERSON: We're adjourned

5

until nine o'clock tomorrow morning. Thank you.

6

Sir...?

7

DR. BYRON WILLIAMS: Sir -- Mr. Chair,

8

just for the court -- I did canvass the issue with Mr.

9

Hacault in terms of --

10

THE CHAIRPERSON: Yes.

11

DR. BYRON WILLIAMS: -- Hydro's

12

proposed response, and he concurs --

13

THE CHAIRPERSON: Okay.

14

DR. BYRON WILLIAMS: -- we're taking

15

the same position. We would expect that Manitoba

16

Hydro will provide their calculations in advance of

17

the day of the hearing, but he has no objection, nor

18

do I.

19

THE CHAIRPERSON: Okay. Well, we --

20

we will issue a ruling in the next day or so. Thank

21

you.

22

23

--- Upon adjourning at 5:35 p.m.

24

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2 Certified Correct,

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8 Cheryl Lavigne, Ms.

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