



“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 17th, 2018
Pages 5177 to 5477

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1 --- Upon commencing at 9:01 a.m.

2

3 THE CHAIRPERSON: Good morning,
4 everyone. Ms. Steinfeld, do want to lay out today's
5 schedule?

6 MS. DAYNA STEINFELD: Thank you, Mr.
7 Chair. Today we will have evidence from the Consumers
8 Coalition witness Mr. William Harper, followed by
9 cross-examination from Green Action Centre,
10 GSS/GSM/KAP, MIPUG, Manitoba Hydro and Board counsel.

11 I also wanted to note that tomorrow we
12 have the morning set aside to continue Mr. Harper's
13 cross-examination, if required. Otherwise, we will be
14 commencing at 1:00 p.m. for public presentations.
15 It's scheduled from 1:00 to 4:00 but currently we
16 expect that it will be more like 1:00 to 3:00 but will
17 advise if that changes as we go forward today. Thank
18 you.

19 THE CHAIRPERSON: Thank you. Dr.
20 Williams...?

21 DR. BYRON WILLIAMS: Yes, perhaps Mr.
22 Harper could to be sworn.

23

24 COALITION PANEL 2:

25 WILLIAM HARPER, Sworn

1 EXAMINATION-IN-CHIEF BY DR. BYRON WILLIAMS:

2 DR. BYRON WILLIAMS: Yes and good
3 morning, members of the Panel. Diane, if you could
4 turn to page 108 of Mr. Harper's October 31st
5 evidence; just scroll down on the page a bit more,
6 please, to the bottom. And that is Coalition Exhibit
7 20.

8 And Mr. Harper, to this proceeding you
9 bring expertise in regulatory, cost of service and
10 rate design policy and practices?

11 MR. WILLIAM HARPER: Yes.

12 DR. BYRON WILLIAMS: And you currently
13 work with Eco -- Econalysis Consulting?

14 MR. WILLIAM HARPER: Yes, I'm an
15 associate with Econalysis Consulting Services.

16 DR. BYRON WILLIAMS: And you had a
17 life before that, I'll suggest to you, Mr. Harper,
18 involving employment with the Ontario Ministry of
19 Energy for five (5) years and then roughly twenty (20)
20 years with Ontario Hydro.

21 MR. WILLIAM HARPER: Yes, with Ontario
22 Hydro and its -- and its successor Hydro One.

23 DR. BYRON WILLIAMS: And while with
24 Ontario Hydro you were involved in the present --
25 preparation of cost of service studies, as well as the

1 preparation of rates charged to municipal and large
2 industrial customers, sir?

3 MR. WILLIAM HARPER: Yes, that's
4 correct.

5 DR. BYRON WILLIAMS: And for many
6 years you testified regularly before the Ontario
7 Energy Board in annual rate proceedings?

8 MR. WILLIAM HARPER: Yes.

9 DR. BYRON WILLIAMS: And, sir, you
10 came to Econalysis in 2000?

11 MR. WILLIAM HARPER: Yes.

12 DR. BYRON WILLIAMS: And you have
13 supported clients and testified in regulatory
14 proceedings in Manitoba, British Columbia, Quebec,
15 Saskatchewan and Ontario, sir?

16 MR. WILLIAM HARPER: Yes, I've
17 supported clients in all those jurisdictions. I
18 haven't actually testified in all of them but I've
19 supported clients in all of those, yes.

20 DR. BYRON WILLIAMS: And the one
21 you've not testified in is Saskatchewan?

22 MR. WILLIAM HARPER: Saskatchewan. I
23 prepared evidence for BC, but it -- it was accepted
24 without testimony.

25 DR. BYRON WILLIAMS: Okay. And, sir,

1 in terms of your Ontario work or in terms of all --
2 those client engagements since 2000, they've involved
3 a capital project approval, long-term planning, cost
4 of service and rate design matters?

5 MR. WILLIAM HARPER: Yes.

6 DR. BYRON WILLIAMS: And in terms of
7 Ontario, you were involved in working groups on the
8 low income energy assistance, emergency assistance
9 program?

10 MR. WILLIAM HARPER: Yes, that was
11 their low energy assistance program; that's the
12 equivalent of the Neighbours Helping Neighbours
13 program here.

14 DR. BYRON WILLIAMS: And you were also
15 involved over the last couple of years off and on in
16 terms of the working group related to the Ontario
17 Electricity Support Program?

18 MR. WILLIAM HARPER: Yes, that's
19 correct.

20 DR. BYRON WILLIAMS: Okay. And you've
21 testified in regulatory proceedings before the
22 Manitoba Public Utilities Board dating back to 2002?

23 MR. WILLIAM HARPER: Yes, that's
24 correct.

25 DR. BYRON WILLIAMS: And without going

1 into all of them, you've been a regular witness before
2 this Pub -- this Board?

3 MR. WILLIAM HARPER: Yes.

4 DR. BYRON WILLIAMS: Mr. Harper, you
5 were responsible for the preparation of an expert
6 report on October 31st, which is marked as Consumer
7 Coalition Exhibit Number 20?

8 MR. WILLIAM HARPER: Yes.

9 DR. BYRON WILLIAMS: And to the best
10 of your knowledge, is that information accurate?

11 MR. WILLIAM HARPER: Yes, actually,
12 there's about three (3) -- actually typographical
13 errors in it. I would like to correct at this point
14 having reviewed it over the last -- again, over the
15 last few days. If I could just make quick note of
16 those.

17 The first is on page 33. There's a
18 chart there and on the far right-hand side, the fifth
19 line down, it says 3.95 and it starts in 2017. It
20 should have been 2018. Obviously, this financial
21 forecast incorporated the interim approval.

22 And then if we go to page 49, under
23 section 4.4.4 on the second line, the twenty (20)
24 years there should be thirty (30) years.

25 And, similarly, if we go over to the

1 top of the next page, page 50, on the third line the
2 twenty (20) years -- the -- the twenty (20) years
3 should be thirty (30) years. But -- but -- but with
4 those corrections I believe the evidence to be
5 correct.

6 DR. BYRON WILLIAMS: Okay or accurate,
7 at least --

8 MR. WILLIAM HARPER: Accurate --

9 DR. BYRON WILLIAMS: -- to the best of
10 your knowledge and ability?

11 MR. WILLIAM HARPER: -- to the best of
12 my knowledge, that's right.

13 DR. BYRON WILLIAMS: And, sir, you
14 were also responsible for the preparation of
15 Information Responses to the Green Action Centre to
16 MIPUG, to Manitoba Hydro and to the Public Utilities
17 Board?

18 MR. WILLIAM HARPER: Yes.

19 DR. BYRON WILLIAMS: And to the best
20 of your knowledge and ability that -- or that
21 information is accurate, to the best of your knowledge
22 and ability?

23 MR. WILLIAM HARPER: Yes, it was.

24 DR. BYRON WILLIAMS: Perhaps if we
25 could call up Mr. Harper's PowerPoint for today and we

1 suggest to the Board that it be marked as Consumer
2 Coalition Exhibit 46.

3 And then Mr. Harper walk through it.
4 Again, we would invite the Board if they have any
5 questions, and I may interrupt from time to time as
6 well.

7

8 --- EXHIBIT NO. CC-46: Mr. Harper's PowerPoint
9 presentation.

10

11 THE CHAIRPERSON: Dr. Williams, we
12 have it marked down as an hour and a half for the
13 presentation, is that what the anticipated time is?

14 DR. BYRON WILLIAMS: Perhaps even a
15 bit shorter, sir, somewhere -- I fully anticipate that
16 if a break, if you're thinking of a break, at about
17 10:30.

18 THE CHAIRPERSON: Well, actually, what
19 I'm thinking of is -- I'm just looking at the overall
20 schedule. If we can finish it today, I think the
21 preference would be to finish it today rather than
22 have to bring Mr. Harper back for a short time
23 tomorrow morning and -- and sort of open up the day
24 for every -- everybody.

25 DR. BYRON WILLIAMS: I believe we

1 would be right on schedule with our original estimate
2 or if not, a bit shorter.

3 THE CHAIRPERSON: Thank you.

4 MR. WILLIAM HARPER: Good -- good
5 morning, Panel. Before I start the presentation, I'd
6 like to note that for me, appearing before the
7 Manitoba Utilities Board has become synonymous with
8 good news events. For those of you who were involved
9 in the cost of service proceeding will recall that I
10 appeared here just before my son's wedding and,
11 actually, when I finish here now I fly to Edmonton to
12 see my granddaughter who was born three (3) weeks ago,
13 so I look forward to the next time I have to come and
14 see what joyous news accompanies that particular
15 appearance as well.

16 So on that positive note, I'd like to
17 start the presentation. If we could move to slide 2.
18 Thank you. Here I've outlined the four (4) topics
19 that I addressed in my evidence. The first topic is
20 Manitoba Hydro's overall financial outlook, and
21 specifically the claim by Manitoba Hydro that this
22 outlook has deteriorated significantly since the last
23 GRA or General Rate Application.

24 The second topic is regulatory assets
25 where I'll speak generally to the role they have in

1 ratesetting for regulated utilities and then more
2 specifically, to the endorsements Manitoba Hydro is
3 seeking with respect to the treatment of new
4 regulatory accounts that have been established leading
5 up to this GRA.

6 The third area addressed is cost of
7 service. Here my evidence reviews Manitoba Hydro's
8 implementation of the cost of service methodology
9 flowing from Board Order 164/16. And then also looks
10 at the role of cost of service study results in the
11 current General Rate Application proceedings.

12 Finally, my evidence looks at issues
13 related to residential rate design, including
14 conservation rates, Manitoba Hydro's filing regarding
15 alternative rate designs for electric heat customers
16 and alternatives put forward regarding low income
17 customers.

18 Could we have slide 3, please. As I
19 indicated, one (1) of the objectives of my evidence
20 was to assess the claim by Manitoba Hydro in its main
21 application that its financial outlook had
22 deteriorated significantly since the last General Rate
23 Application.

24 The evidence starts by looking at the
25 actual performance per Manitoba Hydro's most recent

1 March 2017 annual report and comparing the results
2 with those forecasts at the time of the last General
3 Rate Application and the more recent 2016/2017 interim
4 rate application.

5 Then, since the current application was
6 based on Manitoba Hydro's 2016 integrated financial
7 forecast or IFF16, this forecast altered to reflect
8 the rate increase assumptions set out in the previous
9 GRA -- GRAs which was effectively the 3.95 percent for
10 a number of years, followed by 2 percent per annum
11 thereafter was the main focus of the analysis.

12 However, the evidence did also look at
13 implications of the updates that were subsequently
14 provided prior to the evidence being prepared and I
15 will also be speaking a little bit later to the
16 further updates that were provided in Manitoba Hydro's
17 rebuttal evidence.

18 Since the objective was to look at the
19 claim regarding the change in financial outlook made
20 by Manitoba Hydro, no judgments were made in the
21 evidence as to whether the underlying assumptions in
22 the current forecasts were reasonable; whether the
23 proposed expenditures were prudent and necessary; or
24 whether the accounting treatment for the regulatory
25 assets was appropriate. Rather, the assessment relied

1 on Manitoba Hydro's forecast as they were presented.

2 Go to slide 4. Similarly, the
3 assessment relied generally on Manitoba Hydro's
4 financial metrics and how they changed and -- and
5 looked at how they changed in order to gauge whether
6 there had been a significant deterioration in the
7 outlook.

8 The only exception to this was with
9 respect to capital coverage. Here, in recognition of
10 the concerns by Manitoba Hydro regarding the
11 inadequacy of its current capital coverage metric, the
12 evidence used a broader definition of capital
13 coverage, which considered the difference between
14 total cash available from operations and total capital
15 expenditures. This measure is very similar to the one
16 used by KPMG in its May 2015 report on financial
17 targets, which is appendix 4.1 of the application.

18 I chose this broader metric primarily
19 because, one, it seemed to be a more comprehensive way
20 of looking at capital coverage and, two, and for my
21 purposes, probably most important, the data to
22 calculate the measure was readily available from all
23 of Manitoba Hydro's integrated financial forecast,
24 without me having -- having to do any detailed
25 calculations myself.

1 Finally, I should emphasize that the
2 exercise did not focus on what the actual values were,
3 but whether -- and whether they were appropriate, but
4 rather whether the values had changed from those in
5 previous financial forecasts such that one could
6 conclude there was a significant deterioration in
7 financial outlook.

8 I will acknowledge that defining what
9 represents a deterioration in financial outlook, let
10 alone a significant deterioration in financial outlook
11 is really a matter of judgment.

12 I approached the question by comparing
13 the values of these various metrics as derived from
14 Manitoba Hydro's previous financial forecasts and
15 compared them with the values for IFF16 if it was
16 adjusted to incorporate the rate plans for -- from --
17 from the previous forecasts, and then compare -- and
18 then compared the metrics of the two (2).

19 If either, one, the forecast for all
20 three (3) metrics continued to be aligned with the
21 previous forecasts or, two, the results were balanced,
22 such that one metric was perhaps higher, but another
23 was lower, but -- but on balance it evened out, then I
24 concluded there was no fundamental change in the
25 financial outlook.

1 It was only if one or more of the
2 metrics was lower than in the previous forecasts and
3 there was no countervailing balancing results on the
4 upside, that I concl -- that I concluded one -- one
5 could see there had been a deterioration in the
6 financial outlook.

7 I looked then at whether -- I looked
8 then at whether a materially different rate plan would
9 be required, or whether the results could be brought
10 on side by a simple tweaking of the previous rate --
11 rate plans.

12 Could we have the next slide, please.

13 DR. BYRON WILLIAMS: And, Mr. Harper,
14 just to remind us, when you speaking of the "previous
15 rate plans," you're looking at increases in -- at or
16 around 3.95 percent?

17 MR. WILLIAM HARPER: Yes. And
18 actually if you turn to the next slide, that's
19 precisely what's out -- outlined here is -- what's
20 summarized here are some of the key financial results
21 from those previous -- from those previous financial
22 forecasts, including the NFAT plan that most closely
23 reflects the Board's final NFAT decision. IFF14 which
24 underpinned the last GRA and IFF15, which was the
25 basis for Manitoba Hydro's application for interim

1 rates for August 2016.

2 And as you'll notice then as Dr.
3 Williams asked me, these rate plans generally
4 consisted of a -- annual increases of 3.95 percent
5 through to somewhere just before or just after 20 --
6 2030.

7 Each -- each of the rate plans also
8 envision the debt ratio increasing to about 90 percent
9 and not reaching the target 75 percent until roughly
10 two (2) to four (4) years after 2030.

11 And finally, each of the rate plans
12 envisioned that there would be material shortfalls in
13 capital coverage in the early years, but over the
14 entire period the shortfalls would be closer to, if
15 not, a breakeven point.

16 Using this particular approach, I then
17 looked at three (3) specific time periods. The first
18 being the test years, which are the focus of this
19 General Rate Application, namely, fiscal 2018 and
20 fiscal '19.

21 Second, I looked at the ten (10) year
22 period to 2027, which -- which is the period that
23 Manitoba Hydro flagged as being critical.

24 And then third, I looked at the longer
25 term period out to 2034, which have been covered by

1 the previous rate plans.

2 In each case I looked at changes from
3 as -- as we just noted, the -- the previous IFFs
4 that's IFF14 and IFF15 in terms of how these --
5 because these were the forecasts that underpinned the
6 previous GRAs that the Board had dealt with.

7 If you could turn to slide 6. As I
8 noted before getting into the forecasts, the evidence
9 did -- looked at the actual results to date, i.e.,
10 what -- what was the situation as of March 31st, 2017
11 and compared those with the forecasts that had been
12 made in the -- in the most recent rate cases. And a
13 summary of the results is presented here.

14 As you can see, while the revenues and
15 expenses are both lower than forecast, the resulting
16 net income over the three (3) years is -- is in line
17 with those forecasts. In terms of the specific
18 financial metrics, while the interest coverage is
19 slightly off, i.e., it's less, the actual cover --
20 capital coverage is more favourable than forecast.

21 Finally, in terms of the debt ratio
22 which Manitoba Hydro has indicated early in this
23 proceeding it views as the best indicator of whether
24 it's making progress on rate adequacy, the actual
25 value as of March 31st, 2017, is -- is the same as

1 what was forecast during the last General Rate
2 Application.

3 DR. BYRON WILLIAMS: And Mr. Harper,
4 just to make sure, when you speak of interest coverage
5 on this page, you're -- you're referring to the line
6 that addresses earnings before interest, taxes,
7 depreciation and amortization?

8 MR. WILLIAM HARPER: Yes, that's
9 Manitoba Hydro's re -- revised interest coverage
10 metric that -- that they're currently proposing to
11 use.

12 DR. BYRON WILLIAMS: Thank you.

13 MR. WILLIAM HARPER: Overall, the
14 actual financial results to date generally fall in
15 line with previous forecasts and don't show any
16 material change.

17 The evidence notes that while there
18 were changes between the forecasts and actual results
19 for a number of the line items in the income
20 statement, many of these were due to changes in how
21 the various costs and revenues were being -- were
22 being reported. Putting aside these reporting
23 changes, the key changes between the previous
24 forecasts and the actual results were, one, lower
25 actual domestic revenues due to lower rates and lower

1 domestic loads; higher actual financial expense due to
2 higher exchange rates and slower capital spending;
3 lower actual operating and administrative costs due to
4 Manitoba Hydro's cost reduction initiatives; lower
5 actual in-service assets due to spending delays and
6 act -- actually lower than forecast costs for some of
7 the assets that were brought in service.

8 And it's also noted that while the
9 actual export prices were less than forecast during
10 this period, these lower export prices were actually
11 offset by a higher export revenues and higher exchange
12 rates such that -- such that, in total, they netted
13 out to come out to roughly what -- what the forecast
14 values had been.

15 Slide 7, please. In Manitoba Hydro
16 Exhibit 64, which was the presentation that the first
17 panel made to -- first Manitoba Hydro panel made --
18 made during their appearance here, at slide 74
19 Manitoba Hydro claims that this comparison isn't
20 appropriate and needs to be normalized for the fact
21 that the capitalization rate is greater than the
22 borrowing rate; that higher water flows occurred
23 during the period and that there were re --
24 restructuring costs that occurred during the period.

25 I don't agree, actually. The interest

1 capitalization rate has always differed from -- from -
2 - from the current -- current borrowing rate and
3 Manitoba Hydro's indicated that it has no intention to
4 change this policy. This is nothing new and Manitoba
5 has -- Manitoba Hydro hasn't raised this issue in
6 previous comparisons we've seen in previous hearings
7 and I see no reason why a special case should be made
8 now.

9 In -- in terms of the water flows, a
10 similar issue exists. In the past, Manitoba Hydro
11 hasn't adjusted its actual results for average water
12 flows when speaking to the need for -- for rate
13 increases. This is a -- this is evidenced by the case
14 we saw in 2004/2005 when they came through at the time
15 of the drought. The impacts of the drought were
16 specifically one of the sources of the need for a rate
17 increase.

18 But most importantly, though,
19 throughout this proceeding Manitoba Hydro has
20 indicated that the rate plan which is set out in its
21 current integrated financial forecast is subject to
22 update and change and revision as they go forward in
23 time, and actual events occur, and perhaps occur
24 something different than -- than what was in the rate
25 plan.

1 And it seems to me looking at the
2 actual results as they actually occurred and then
3 comparing those with forecasts is fully consistent
4 with what Manitoba Hydro plans to do in the future as
5 it moves forward and revise its rate plan to reflect
6 current circumstances.

7 DR. BYRON WILLIAMS: Mr. Harper,
8 before you leave this slide, I think you referenced
9 saying that you were responding to Hydro's slide 74.
10 Did you mean to say slide 44?

11 MR. WILLIAM HARPER: Yes, I'm sorry,
12 that -- that's what's on the presentation here.

13 DR. BYRON WILLIAMS: And when you
14 referred to Manitoba Hydro Exhibit 64, that was the
15 revenue requirement panel --

16 MR. WILLIAM HARPER: No, I believe --

17 DR. BYRON WILLIAMS: -- policy panel -
18 -

19 MR. WILLIAM HARPER: I believe -- it
20 was the policy panel. It was the very first -- first
21 panel that appeared before the Board here.

22 DR. BYRON WILLIAMS: Thank you.

23 MR. WILLIAM HARPER: Going to slide 8.
24 As we indicated, the first forecast time period that
25 the evidence looked at was the two (2) test years,

1 2017/'18 and 2018/'19. Using the 2016 integrated
2 financial forecast, but adjusted for the rate plan
3 from their previous financial forecasts, both revenues
4 and expenses are less than in the previous forecast
5 but the overall two (2) year net income is -- is -- is
6 higher than in either of the previous forecasts.

7 This time the interest coverage is
8 higher for this period, while the capital coverage is
9 less than forecast. However, again, the debt ratio
10 continues to be in line with the previous forecasts.

11 Based on these results, I concluded
12 there was no material change in the financial outlook
13 for the test year period relative to what had been
14 forecast in the previous GRA or in the previous
15 interim rate proceeding.

16 Again, in terms of the changes in the
17 individual income statement items, some of were --
18 some of them were, again, driven by changes in
19 reporting, however, there were some key changes in the
20 underlying drivers. On the revenue side, these
21 included reduced revenues; on the domestic side,
22 primarily due to reduce low -- domestic loads; reduced
23 export revenues due to lower -- lower than forecast
24 export prices, which were only this time, partially
25 offset by higher volumes in exchange rates.

1 And on the cost side these reductions
2 in revenue were offset by lower operating and
3 maintenance costs, again, as a result of Manitoba
4 Hydro's continued efforts at cost reduction.

5 Lower financial expense due to lower
6 interest rates and a shift -- a shift to shorter
7 borrowing. And the deferral of ineligible overheads
8 and depreciation differences which ended up impacting
9 net income.

10 Also impacting the capital coverage and
11 debt ratio was a higher capital spending primarily in
12 the areas of Keeyask, Bipole III and the
13 Minnesota/Manitoba transmission line.

14 Go to slide 9. Looking at the ten (10)
15 year period out to 2016/2017, the overall results are,
16 again, somewhat different. Excuse me, some -- the
17 same, actually, I apologize. Compared to the previous
18 forecasts both revenues and expenses continue to be
19 down but the overall results in terms of net income
20 are higher.

21 In terms of the financial metrics, the
22 forecast interest -- interest coverage has had -- has
23 continued as -- has continued to be improved over the
24 forecast. The capital coverage continues to be a
25 little bit off and the debt ratio continues to be in

1 line with the previous forecasts.

2 Based on these results I, again,
3 concluded there was no material change in the
4 financial outlook relative to the previous forecasts
5 and for this period, the key -- the key -- key drivers
6 again were virtually the same as what we'd seen in the
7 previous cases.

8 If we can go to slide 10. Finally, I
9 looked at the period through to 2033/2034 at which
10 time the previous financial forecasts were all
11 forecasting the Corporation had achieved its 75
12 percent debt ratio target. Again, the same drivers in
13 terms of lower domestic volumes, lower export prices
14 and higher capital costs were offset by lower
15 operating and maintenance expenses, lower interest
16 rates, delays in the Keeyask in-service date, and --
17 and deferred -- and the deferral of some expenses,
18 which led to the results, again, being similar to what
19 we saw in the previous periods such that net income is
20 in line with the previous projections, interest
21 coverage is more favourable, capital coverage has
22 deteriorated but, again, the debt ratio continues to
23 be in line with the previous forecast.

24 DR. BYRON WILLIAMS: Mr. Harper, just
25 before you leave this page, in essence, I'll suggest

1 to you what you've been doing in -- in this section
2 is comparing the integrated financial forecast for
3 2014 versus 2015 versus the forecast on which the 7.9
4 percent rate application was initially brought, but
5 assuming that -- that rates only increase by 3.95
6 percent versus 7.9.

7 Is that what you've been doing?

8 MR. WILLIAM HARPER: Right. That's
9 actually what I've been doing in each of these cases
10 and seeing whether if you continued with the previous
11 rate plan which had been rate increases of 3.95
12 percent for the initial period and then moving down to
13 2 percent per annum, how -- how the financial outlook
14 would change in terms of these financial metrics I've
15 talked about relative to the previous plans.

16 And in all three (3) periods look --
17 looking at those metrics, on balance, I -- I don't see
18 a material -- I don't seem material deterioration.
19 Some are; some are down. But an average as -- as you
20 look at it, the debt/equity ratio which is the
21 indicator Manitoba Hydro has indicated is
22 the one that best indicates the adequacy of -- of
23 their rates is in line. It's between -- it's within
24 the range of those previous forecasts in all three (3)
25 periods.

1 And effectively I think what I've just
2 done is sum -- summarize slide 11, if -- if we flip to
3 that. Yes, I think that's effectively what I've done
4 is summarize that.

5 So we want to move to slide 12. The
6 evidence also looked at the Mani -- Manitoba Hydro
7 update with interim, which incorporate -- with the
8 interim rate increase, which incorporated revised
9 forecasts for Manitoba Hydro's load, export prices and
10 various economic indicators. And as I indicated it --
11 it also incorporated the 3.36 percent that the Board
12 approved effective August 1st, 2017.

13 These revised forecasts called for even
14 lower levels of domestic sales over the forecast
15 period. And in terms of exports, the -- the revenues
16 are higher in the near term due to improved hydraulic
17 conditions, but lower in the long-term and export
18 revenues are actually lower overall due to -- due to
19 what's now a lower export price forecast.

20 Finally, another major change in the
21 area was at the financial expense in the updated
22 forecast included higher forecasted interest rates.
23 Assuming rate increases similar to those in -- in the
24 previous integrated financial forecast for 2015 for
25 the balance -- the balance of the projection period

1 results in interest coverage ratios that are still
2 favourable relative to the earlier forecasts, but a
3 further deterioration in the cap -- capital coverage
4 results relative to those previous forecasts.

5 However, with this more recent
6 financial forecast, the debt ratio does not achieve
7 the 75 percent target until 2036; later than the
8 previous financial forecasts. So with -- with that
9 context, I'd like to move to slide 13.

10 As a result, and with that change in
11 the financial metrics, my evidence concluded that this
12 updated outlook does represent a deterioration in the
13 financial outlook; as both the timing for the
14 achievement of the debt ratio of 75 percent and the
15 capital coverage are out of line with the previous
16 forecasts.

17 But however, the evidence also notes
18 that extending the 3.95 percent increases to 2033/'34
19 allows for the achievement of a 75 percent debt ratio
20 just one (1) year later than the previous plans had,
21 i.e., 2034/2035. As a result, while there's been some
22 deterioration, I do not see it as being -- being
23 significant, but rather one that could be managed by
24 adjusting the existing rate plan a small amount.

25 DR. BYRON WILLIAMS: And, Mr. Harper,

1 perhaps I could ask to go back to slide 20 -- 12, just
2 for a second.

3 On the up -- on the top on the right
4 side you see the IF16 Update with the 3.36 interim.
5 And you see there that it's indicated that after 2030
6 2 percent rate increases?

7 MR. WILLIAM HARPER: Yes, that's
8 correct.

9 DR. BYRON WILLIAMS: And what you're
10 saying is if you increase that to 3.95 percent that
11 leads to your conclusion --

12 MR. WILLIAM HARPER: Yes, if you
13 increase that to 3.95 percent through to 2033/'34 that
14 -- that allows you to achieve the 75 percent debt
15 target. And, indeed, that's only two (2) more years
16 of the 3.95 percent than what the IFF14 called for,
17 which was the underpinning of the last General Rate
18 Application.

19 DR. BYRON WILLIAMS: And Mr. Harper,
20 before we go on, I just wonder if we can go back to
21 slide 5 for just one second.

22 In slide 5, at the top left is what you
23 presented as the plan out of the NFAT that best
24 represented where we've gone since then with Keeyask,
25 the Manitoba/Minnesota transmission line and the --

1 and the Minnesota sale?

2 MR. WILLIAM HARPER: Right. I think -
3 - I don't think there was any of the plans that
4 precisely matched what -- what you would interpret as
5 being the Board's NFAT decision but this was the one
6 that closely -- most closely matched it.

7 DR. BYRON WILLIAMS: And what it
8 contemplated with -- was rate increases in the --
9 somewhere between 3.74 and 3.95 out to 2032?

10 MR. WILLIAM HARPER: Yes.

11 DR. BYRON WILLIAMS: Okay. I hope I
12 didn't throw you off too much, Mr. Harper.

13 MR. WILLIAM HARPER: No, your
14 questions always provide clarification. Thank you,
15 Dr. Williams.

16 If we can maybe go back to slide 14.
17 The next slide summarizes the key drivers that I have
18 identified in comparing the various forecasts and they
19 are: The domestic load forecast and, in particular,
20 the load forecast for the top consumers; the export
21 price forecast, particularly, that after the -- after
22 the Keeyask in-service date; interest rates; the
23 planned operating administration cost reductions; and
24 capital spending.

25 As I noted at the start of my

1 presentation, for purposes of my evidence, I accepted
2 Manitoba Hydro's financial forecast and underlying
3 assumptions as a given. However, clearly in assessing
4 the reasonableness of Manitoba Hydro's current
5 financial forecast, these are areas that will warrant,
6 in my view, the most scrutiny -- most scrutiny going
7 forward. And I guess for -- fortuitously or -- or
8 probably by design, in many of these areas, these are
9 areas where the Board has -- has actually contracted
10 with independent experts to -- to provide them
11 further advice on the -- on the forecast and I focus
12 specifically on the domestic load forecast and export
13 prices as -- as examples of that.

14 If we can go to slide 15. In its
15 rebuttal evidence, Manitoba Hydro claims that any
16 comparisons of IFF15 and IFF16 need to be adjusted for
17 the Keeyask in-service date delay and more recent
18 updates. Again, I don't agree that such adjustments
19 are necessary or appropriate. The 2016 integrated
20 financial forecast includes a number of updates and --
21 and revisions based -- based on the best information
22 that is available, as well as a number of policy
23 changes regarding matters such as the use of average
24 versus median water flows in the second year, or the
25 elimination of the capacity value for uncommitted

1 exports from surplus dependable generation.

2 I see no reason to isolate just the
3 change in forecast assumptions for Keeyask for any
4 special treatment. However, more importantly, I see
5 no need to isolate and adjust for any of these
6 changes, as conclusions regarding a change in the
7 financial outlook should reflect the actual conditions
8 in the best forecast for the future. As I already
9 noted, such an approach is consistent with the way
10 Mani -- with the way Manitoba Hydro intends to
11 approach its -- its financial outlook going forward,
12 revising it as necessary to reflect actual conditions
13 and new conditions as they -- as they change.

14 Finally, in its rebuttal evidence,
15 Manitoba Hydro notes that the comparison between the
16 two (2) financial forecasts should also be adjusted
17 for the \$78 million that arises from the most recent
18 update they've done for 2017/'18 and 2018/'19.

19 My problem with this adjustment is that
20 only updates two (2) years -- the two (2) years
21 results for anticipated changes in the net export
22 revenue due to lower export prices and lower water
23 conditions. There are a myriad of other factors that
24 could be considered if the intent was to provide a
25 more recent update, so I don't see this adjustment as

1 being particularly useful or informative.

2 Can you go over to slide 16, please.

3 In its rebuttal evidence, Manitoba Hydro also
4 indicates that the assumed twelve (12) year weighted
5 average term to maturity or WATM, for want of -- want
6 of an expression, used in IFF16 for new debt, would
7 not be an acceptable management strategy if the
8 allowed rate increases were only 3.95 percent for the
9 next ten (10) years or so, and that in such a case,
10 use of the previous ten (10) year weighted average
11 term for maturity would be more appropriate.

12 Appendix 1.3 of the rebuttal --

13 DR. BYRON WILLIAMS: Mr. Harper --

14 MR. WILLIAM HARPER: Yes?

15 DR. BYRON WILLIAMS: -- can I just
16 stop -- you said the ten (10) -- the previous ten (10)
17 year weighted average term. Did you mean to say the
18 previous twenty (20) year?

19 MR. WILLIAM HARPER: Yes, I'm sorry, I
20 meant twenty (20) year. I got the twenty (20) years
21 of the term mixed up with the ten (10) years of the
22 rate forecast. I apologize.

23 Appendix 1.3 of the rebuttal produced a
24 -- a version of IFF that would -- of the IFF16 that --
25 that was updated to reflect this twenty (20) year term

1 based on the rate plan from the previous forecasts. A
2 comparison of these results with the previous forecast
3 produced in the previous GRAs is set on -- on this
4 slide. As you can see, the debt ratio rises to the
5 upper end of the range of the previous forecast, but
6 does not achieve the 75 percent target until 2030 --
7 until -- until after 2036. Similarly, the interest
8 coverage has declined, but is still in line with
9 previous forecasts, but the capital coverage
10 experiences an even further -- further decline
11 relative to what we've seen before.

12 If you go to slide 17. In my view, the
13 foregoing indicates that -- that adjusting to the
14 twenty (20) year weighted average term for new debt
15 would result in a further deterioration in the
16 financial outlook with both the capital coverage
17 measure and the debt ratio now being out of line with
18 the previous forecast.

19 However, I'd note that to achieve the
20 75 percent debt ratio by 2033/'34 would require only a
21 modest increase in the annual rate adjustment over the
22 period to 4.34 percent per annum. Based -- based on
23 this, the proposed 7.9 percent change pro -- proposed
24 by Manitoba Hydro is -- does not seem to be warranted.

25 If we go to the next slide, I don't

1 want to expect -- spend much time on this, but I just
2 wanted to highlight in this slide what the debt ratio
3 results would be if you used the 4.34 percent annual
4 increase through to 2033/'34. And as you can see --
5 see from the green line there, the pro -- the -- the
6 profile is rea -- reasonably within the range of the
7 previous financial forecasts.

8 If we go to slide 19, please. I'd like
9 to now turn to the second issue addressed in my
10 evidence, which is the regulatory accounts. First
11 off, it should be noted that the use of regulatory
12 accounts is a common practice by regulated utilities,
13 and it serves a number of useful purposes. These
14 purposes include promoting intergenerational equity by
15 allowing costs to be deferred and amortized so as to
16 better match the timing of when the costs will be paid
17 by customers and when benefits will be received by
18 customers. They also address forecast uncertainty
19 such as neither the Utility, nor -- nor customers are
20 -- are unfairly burdened with the associated risk.
21 They're used to smooth rate increases. They're used
22 to permit the recovery and refund of costs and
23 revenues arising from unforeseen events. And finally,
24 they're often used to offset accounting provisions.

25 However, as the footnote point -- on

1 the slide points out, some of these purposes are more
2 applicable to utilities under rate of return
3 regulation or incentive regulation than they are to
4 Manitoba Hydro with its cost of service regulation.
5 And more -- and -- and in specifically that -- that
6 would apply to the issues around addressing forecast
7 uncertainty and the -- the recovery of -- of
8 unforeseen events.

9 Go to slide 20. This next slide sets
10 out the regulatory accounts that were included in the
11 previous General Rate Applications and their
12 treatment. I should note that under the purpose
13 designation for each account is based on my
14 understanding of the role of the account as opposed to
15 any specific determination that's been made by this
16 Board. As I note in the last column, I believe the
17 current treatment for these accounts is -- is
18 reasonable in all cases.

19 DR. BYRON WILLIAMS: Mr. Harper,
20 before you leave this slide, in essence, you're
21 looking at on the left-hand side, the different
22 accounts for which there are deferral accounts. When
23 you -- the second is you interpret the purpose.

24 The third column is the proposed
25 treatment by Manitoba Hydro?

1 MR. WILLIAM HARPER: Actually, this is
2 the treatment that currently exists and the way
3 they're currently treated in Manitoba Hydro's
4 financial statements.

5 DR. BYRON WILLIAMS: And then you
6 offer your commentary in the fourth column?

7 MR. WILLIAM HARPER: Right.

8 DR. BYRON WILLIAMS: Okay. Thank you.

9 MR. WILLIAM HARPER: Can we move to
10 slide 21. Here, I've set out the regulatory accounts
11 that are effectively new for this General Rate
12 Application. All of them except for Conawapa appear
13 in Manitoba Hydro's 2016/'17 financial statements.
14 However, they do so with the footnote that the
15 amortization periods will be determined by the PUB as
16 part of the future regulatory proceeding, which is
17 where we are today.

18 Again in each case, on the second
19 column, I've set out on the slide my understanding as
20 to the -- the purpose of the account, then Manitoba
21 Hydro's proposed treatment, and then my particular
22 view of that treatment. And I'll speak to each --
23 each for those in turn.

24 In the case of a loss on disposal of
25 assets, this account arises as a result of Manitoba

1 Hydro's transition to international financial
2 reporting standards, or IFRS. The regulatory account
3 defers the costs consistent with the pre -- previous
4 accounting practice and the proposed amortization
5 period is reasonable, in my mind, as it approximate --
6 approximates what would have happened under the pre --
7 previous accounting practice.

8 In the case of ineligible overheads,
9 Order 73/'15 directed the deferral of these costs. It
10 is not immediately clear from the Board's Order
11 whether this was based on considerations of rate
12 smoothing, intergenerational equity, or a combination
13 of the two (2).

14 In any event, subsequent communication
15 from the Board directed that the deferred costs be
16 amortized over thirty (30) years, and it's charged
17 through other comprehensive income. In contrast,
18 Manitoba Hydro is proposing to amortize the costs over
19 twenty (20) years and charge them through net income.
20 Manitoba Hydro is also proposing to cease the deferral
21 of these costs after 20 -- 2022/'23.

22 In my view, Manitoba Hydro's proposal
23 to amortize the deferred costs by net income is
24 reasonable, as this mirrors what would have occurred
25 if these costs were capitalized and -- and

1 subsequently depreciated. However, if the costs were
2 capitalized, they would have been amortized over the
3 life -- over the lives of the various future assets as
4 they came into service, and on average, these lives
5 are considerably longer than twenty (20) years, or
6 even the thirty (30) years directed by the Board.
7 This -- this would suggest that the thirty (30) year
8 amortization directed by the Board is more reasonable,
9 and indeed, the -- the Board may want to consider even
10 a -- a somewhat longer period.

11 In addition, the communication from the
12 PUB makes no reference to ceasing the deferral of
13 these costs. And indeed, if the Board's view is that
14 for rate-setting purposes, the level overhead to be
15 capitalized should include this 20 million, there is
16 no reason to -- to cease the deferral after 2022/'23.

17 Excuse me for a moment.

18 DR. BYRON WILLIAMS: Mr. Harper, just
19 in the -- in terms of the 20 million, is that a annual
20 cost, or a total cost?

21 MR. WILLIAM HARPER: Well, that -- the
22 -- what I -- what I have attempted to show in brackets
23 under each to give a size of context is that's the
24 forecast annual additions to -- to the -- to the
25 account for 2018/'19 for each of these accounts. And

1 there is no forecast for loss on disposal of assets,
2 because that is something that actually happens when
3 the -- when the assets are disposed of, and we'll know
4 of -- as of the end of that year, but for the other
5 three (3), there -- there are forecasts provided in --
6 in Manitoba Hydro's materials.

7 Now, we'll -- when we get to it, we'll
8 note that the amortization for Conawapa doesn't start
9 until 2019/'20, and that -- that's the point in time
10 at which the 380 million is actually placed into a
11 regulatory asset account.

12 In the -- if we move -- if we move back
13 up to the depreciation differences, the PUB also
14 directed in the same Order 73/'15 that Manitoba Hydro
15 continue to use the current average service life, or
16 ASL, depreciation method for rate-setting purposes
17 until the Company had provided more information
18 regarding IFRS-compliant ASL depreciation rates, and -
19 - and also provided information on the impact on its
20 integrated financial forecast of using ASL-based
21 depreciation rates versus the Equal Life or ELG-based
22 dep -- based depreciation rates.

23 The need for the regulatory account
24 arises from the fact that Manitoba Hydro uses the
25 Equal Life Group for -- methodology for -- for

1 financial reporting, but per the Board's direction,
2 uses the average service life for -- for regulatory
3 purposes.

4 Following Order 73/'15, the Board
5 directed that these deferred costs also be amortized
6 over thirty (30) years and charged through other
7 comprehensive income. In contrast, Manitoba Hydro is
8 proposing to amortize the cost over twenty (20) years
9 and charge them through net -- net income. Manitoba
10 Hydro is also proposing to cease the deferral of these
11 costs after 2022/'23.

12 As I noted in my evidence, both
13 depreciation methods will fully recover the cost over
14 the life of the assets. As a result, from a benefit-
15 matching perspective, there is no need to amortize the
16 balance in the account. However, if one was to choose
17 to amortize the balance in the account, a period that
18 would be most appropriate would be one that matched
19 the remaining service life of the existing assets,
20 which is roughly thirty-four (34) years. So in this
21 case, the thirty (30) years directed by the Board
22 would be much more appropriate than the twenty (20)
23 years Manitoba Hydro has proposed.

24 The Board's directive also called for
25 Manitoba Hydro to return with the necessary

1 information to permit it to make a determination as to
2 which depreciation -- while -- methodology should be
3 used for rate -- rate setting. Assuming Manitoba
4 Hydro intends to comply with the directive in a timely
5 fashion, there is no need, in my view, to either, 1)
6 amortize the current balance, or -- or establish a
7 date after which the cost differences between the two
8 (2) will no longer be deferred. These matters can
9 better be addressed by the Board after it has
10 determined what is the appropriate depreciation
11 methodology for rate-setting purposes.

12 Indeed, I see some parallels between
13 this account and the proposed treatment for the DSM
14 deferral account, where Manitoba Hydro is proposing
15 that there be no amortization of the balance until
16 Efficiency Manitoba has been established and it's
17 clear what actions are required to clear -- to clear
18 the account.

19 The final deferral account that the
20 Board is being asked -- excuse me, regulatory account
21 that the Board is being asked to address in this
22 proceeding is the one dealing with the 380 million
23 sunk -- dollars of sunk costs related to Conawapa. In
24 this case, the purpose of the regular account is for
25 rate smoothing, and the choice of the deferral period

1 is a matter of judgment.

2 In my view, the proposed thirty (30)
3 year period put forward by Manitoba Hydro is
4 reasonable, given the size of the dollars involved.
5 Also, while the purpose of the account is rate
6 smoothing, it's worthwhile noting that the write-off
7 that's triggered by the PUB's NFAT decision regarding
8 the most appropriate way to meet Manitoba Hydro's
9 long-term energy needs. Considered in this context,
10 the write-off can be viewed as part of the cost of
11 implementing the Board's decision, which would suggest
12 amortization of the costs over a -- over the long-term
13 planning period which had been considered.

14 If we can move to slide 22 please.

15 THE VICE-CHAIRPERSON: Excuse me, Mr.
16 Harper. Just before you move, the two (2) areas where
17 you thought that the -- the proposed treatment and
18 your recommendation were different, did you consider
19 what impact those two (2) might have on rates for the
20 rate that you recommended, for example, of the 4.34
21 percent?

22 MR. WILLIAM HARPER: Well, actually,
23 one (1) -- in -- in my evidence, I wasn't particularly
24 noting the four (4) -- recommending the 4.34 -- 4
25 percent. I was noting that even with the most recent

1 updates, the 4.34 percent would -- would bring -- was
2 bringing us back in line with the previous plans in
3 terms of when we're achieving the debt/equity ratio.

4 Having -- within that context, given
5 that context, I -- I didn't specifically look at the
6 impact, but my anticipation would be that with longer
7 amortization periods, and with continuing the
8 deferral, what -- what you would see is the -- what
9 you would see is more favourable net income results
10 over the period, but you would see a growth in the
11 regulatory asset accounts, which is probably a very
12 useful segue into my next slide, so thank you very
13 much for that question.

14 THE VICE-CHAIRPERSON: Thank you for
15 your clarification on the 4.34 percent.

16 DR. BYRON WILLIAMS: And -- and just
17 to go back to that point, and we thank the Board
18 member for that question, Mr. Harper, just to
19 reiterate, you -- you noted that your analysis on what
20 has changed was based on no -- no judgment.

21 So in effect, you were assuming Hydro's
22 forecasts were reasonable, and you were assuming that
23 their operations were prudent without testing those
24 propositions?

25 MR. WILLIAM HARPER: Yes, and that's

1 why there was the one (1) slide in the evidence noting
2 what I'd flagged as -- what I saw as being the key
3 factors that were changing the forecast, because I
4 thought that was maybe useful information to share in
5 terms of what were the key factors that one might want
6 to look at when one was testing the reasonableness of
7 the current financial forecast Manitoba Hydro has put
8 -- has put before the Board.

9 DR. BYRON WILLIAMS: And that would be
10 slide 14. We don't need to go back there, but --

11 MR. WILLIAM HARPER: That's -- that's
12 correct. Okay. Could -- if we could move to slide
13 22, and I just -- as I said, the -- the question just
14 asked was a very good segue into this particular
15 slide.

16 One (1) of -- one (1) of the reasons
17 for Manitoba Hydro's proposals for shorter
18 amortization periods and ceasing the deferral of
19 certain accounts after 2022/'23 as to -- appear --
20 appears to be a concern about the growth in regulatory
21 asset balances and the potential this creates for
22 intergenerational equity. In support of these
23 concerns, Manitoba Hydro has referenced the -- the BC
24 auditor general's 2011 report on BC Hydro's regulatory
25 accounting, and the specific citation of that as

1 referenced is shown on the left-hand side of the
2 slide.

3 In my evidence, I question the
4 relevancy of the BC auditor's report to Manitoba
5 Hydro's situation. First, as the table on the right-
6 hand side of the slide indicates, there is a material
7 difference between the balance in Manitoba Hydro's
8 regulatory asset accounts and the balance in BC
9 Hydro's accounts. Indeed, as a percentage of total
10 assets, the net balance in Manitoba Hydro's 2017
11 regulatory accounts was -- was one-eighth (1/8) of
12 that of BC Hydro's when you look at on -- on -- when
13 you look at on a -- percentage terms in terms of, out
14 of the total assets of the Corporation, how much of
15 that is made up by regulatory assets? For BC Hydro,
16 it's 17.6 percent, and for Manitoba Hydro, it's only
17 2.2 percent.

18 Furthermore, the bottom row indicates
19 even if Manitoba Hydro were to follow the directions
20 of the Board and continue to defer and amortize
21 ineligible overheads and depreciation differences for
22 the next twenty (20) years, the level of regulatory
23 asset accounts would only represent 5.3 percent of
24 total assets, which is roughly still only less than
25 one third (1/3) of the BC Hydro's current -- current

1 percentage. Clearly, Manitoba Hydro's regulatory
2 asset balances are nowhere near the levels that
3 triggered the BC auditor's -- concerns.

4 Go to the next slide, please. The --
5 this next slide also identifies some of the spec --
6 specific issues raised by the BC auditor's report, and
7 reflects on their relevancy to Manitoba Hydro. One
8 (1) of the auditor's concerns was the protracted
9 period for the recovery of cost variance accounts and
10 the implication this has for intergenerational equity.
11 Now, cost variance accounts track differences between
12 forecast and actual accounts for items such as fuel,
13 and interest, with a view that these forecasts,
14 whether they be plus or minus, will be recovered or
15 refunded from customers over a short period of time.

16 However, if you'll -- however, Manitoba
17 Hydro makes only very limited use of cost variance
18 accounts. Indeed, the only one that's currently on
19 Manitoba Hydro's books is the DSM deferral account
20 where the customers are actually owed money as opposed
21 to the Corporation.

22 A second concern of the auditor was the
23 fact that BC Hydro's regulatory accounts attract in --
24 interest, and what this does is -- is it leads to an
25 actual -- an increase in the reported net -- net

1 income, because it removes interest from the financial
2 statements. However, in Manitoba Hydro's case, the
3 only regulatory account that attracts interest is the
4 Affordable Energy Fund, and the balance of that is
5 almost nearly fully retired now.

6 The BC auditor also expressed concern
7 that the level of annual recovery for BC Hydro's
8 regulatory accounts was less than the interest being
9 accrued on the accounts. Clearly, this is like not
10 paying off the interest on your cred -- credit card
11 every -- every month. This is a situation again that
12 clearly does -- does not -- does not apply to Manitoba
13 Hydro, when interest is only being applied to the AEF
14 account, and the balance is so small right now.

15 If we move on to slide 24. The third
16 area addressed in my evidence is Manitoba Hydro's cost
17 of service study and the implementation of the Board's
18 directives regarding the cost of service methodology
19 as it was set out in Order 164/'16. However, before
20 getting into the details, I think it would be useful
21 or important to look at some of the principles, or
22 what I call key take-aways from the Board's 164/'16
23 Order.

24 First is the Board's determination that
25 cost causation is the sole principle that should be

1 used in establishing an appropriate cost of service
2 methodology, and that other rate-making principles or
3 goals such as efficiency and rate stability, as well
4 as public policy considerations are not to play a
5 role.

6 The second take-away which is closely
7 related to the first is that the cost of service study
8 results did not determine the level of the revenue
9 requirement to recover from each customer class, nor
10 the rate structures to be used. Relative -- rather,
11 the results are an input into such determinations,
12 along with other rate-setting objectives, like those
13 just mentioned.

14 And go to the next slide. A couple of
15 other key take-aways I took from the report was the
16 fact that it was clear from the report that there's no
17 generally accepted methodology or industry standard
18 when it comes to the appropriate cost of service
19 methodology.

20 Furthermore, establishing the
21 appropriate cost of service methodology to be used
22 involves judgment, and the results are not as
23 arithmetically precise as they appear. Finally, in
24 looking at the various determinations made by the
25 Board, the last take-away is that while cost -- cost

1 causation is paramount in determining the appropriate
2 methodology, practical matters such as acceptability
3 and understandability also come into play.

4 You can go to the next slide, which is
5 slide 26. In terms of Manitoba Hydro's --

6 DR. BYRON WILLIAMS: Mr. Harper --

7 MR. WILLIAM HARPER: Yes.

8 DR. BYRON WILLIAMS: -- just -- just
9 as I understand what you were doing there, you were
10 taking what you interpreted to be the key principles
11 from cost of service, and with the focus on cost
12 causation flowing from that Order, and -- and then
13 suggesting that when you go to the revenue
14 requirement, there's a -- a broader spectrum of
15 regulatory considerations that come into play?

16 MR. WILLIAM HARPER: I think what I
17 was suggesting was that was -- that was my interpret -
18 - interpretations of the Board's report. And it
19 wasn't when you go to the revenue requirement. It was
20 when you go to the determination of how much of that
21 revenue requirement should be recovered from each
22 individual customer class. The determination of the
23 overall revenue requirement really comes before and is
24 an input in -- into the cost of service study meth --
25 methodology.

1 So if we're on slide 26, in terms of
2 Manitoba Hydro's implementation of Order 164/'16,
3 their pers -- perspective cost of service study for
4 2018 generally follows the methodology set out in the
5 Board's Order. There are a few areas of departure.
6 However, in my view, these are based on either a lack
7 of data, or simplifying assumptions.

8 And example of where lack of data comes
9 into play would be the allocation of late payment
10 revenues, where historic data on payments by customer
11 classes other than the residential was not available.
12 An example of simplifying assumptions would be the
13 assignment -- the assignment of all transmission
14 common costs to the transmission function when we --
15 when some of those transmission facilities in the end
16 are actually functionalized as generation.

17 My evidence also notes a few areas
18 where there appeared to be a mismatch between the
19 Board's principle that cost causation should be the
20 primary consideration and strict interpretation of the
21 Board's directives. In some cases, refinement of the
22 cost of service methodology would have minimal impact
23 on the results and would addit -- introduce additional
24 com -- complexities, in my view.

25 Examples of this include the

1 classification of wind resources as -- as 100 percent
2 energy-related, which is what the Board directed,
3 whereas Manitoba Hydro has now suggested that they do
4 provide some capacity benefit, but -- but teasing that
5 out and reflecting that in the cost of service
6 methodology would likely have minimal impact on the
7 results and add unnecessary complexity.

8 Another example of the -- of the same
9 issue is the fact that distribution facilities are
10 used to facilitate a small amount of -- of exports.
11 However, trying to reflect that in the cost of service
12 methodology, again, would identify -- would
13 incorporate a level of complexities and probably
14 wouldn't change the result was very much.

15 However, there are instances where
16 changes could -- could readily be made if needed, and
17 further consideration is warranted. These include the
18 choice of the facilities to be functionalized as
19 generation outlet transmission, and the inclusion of
20 radial lines in the allocation of export revenues.

21 In its rebuttal evidence at page 61,
22 Manitoba Hydro claim -- claims that has conducted a
23 review of those transmission facilities eligible for
24 functionalization as generation outlet transmission,
25 and that it regularly reviews this issue as part of

1 its tariff transmission studies. However, these
2 reviews have not been provided in this proceeding, and
3 therefore parties are unable to confirm Manitoba
4 Hydro's claim or satisfy to themselves that the same
5 criteria used by Manitoba Hydro in these studies is
6 the same as what -- what -- the criteria the -- the
7 Board used in its report when -- when it established
8 what types of facilities should be -- should be
9 classified as generation outlet transmission. And
10 therefore, I -- I think this additional information
11 would -- would be useful, and help satis -- satisfy
12 the parties and content the Board that their directive
13 is -- is being followed, or that revisions have to be
14 made.

15 Finally, there are a number of --
16 number of areas where in Order 164/'16, the Board
17 directed that further study was required and the
18 matter is still outstanding. These include the
19 allocation of common cost, the appropriate allocator
20 for services, and the appropriate treatment of primary
21 and secondary distribution lines.

22 During this proceeding, Manitoba Hydro
23 has committed to completing the service drop update
24 prior to the next GRA. A similar timeline should be
25 established with the other outstanding stud -- studies

1 and updates directed by the Board.

2 Can we go to slide 27, please.

3

4 (BRIEF PAUSE)

5

6 MR. WILLIAM HARPER: A key output of
7 the cost of service study are the revenue to cost
8 ratios for each customer class. While dividing
9 customer class revenues by their allocated costs
10 sounds like a straightforward calculation, a number of
11 ext -- issues have arisen in this proceeding as to
12 precisely how that should be done.

13 One (1) question that has arisen is
14 whether the revenues used in the calculation should
15 include the additional revenues that are going to
16 accrue to the Company as a result of the rate
17 increase, or the -- the revenues used in the numerator
18 should just be those from current rates. In Manitoba
19 Hydro's case, it has just used the revenues from
20 current rates.

21 In my experience, the common practice
22 when looking at the cost of service results for
23 forward test years is to include the additional
24 revenues from the requested rate increase, and that is
25 my prep -- that is actually my -- my preference. By

1 including them, it is easy for all parties to see what
2 the resulting revenue to cost ratios would be if the
3 rate increase proposed was evenly applied across all
4 customer classes.

5 However, the impact of doing so is
6 really -- is fairly small. My understanding, less
7 than 1 percent, and ultimately, it is -- is a matter
8 of judgment. Probably what's more important is over
9 time, the same method is used from year to year, so
10 that if you're comparing cost of service study results
11 and the resulting revenue to cost ratios, they're all
12 calculated on the same basis.

13 The second calculation issue raised is
14 whether net export revenue should be treated as an
15 additional revenue or as a cost offset. Manitoba
16 Hydro treats the net export revenues as an additional
17 revenue for each customer class.

18 Although not as material, a similar
19 issue exists with the other revenues, such as late
20 payment charges, and pole rental charges. In these
21 cases, Manitoba Hydro's approach is mixed. For
22 example, late payment charges are treated as an
23 additional revenue, but pole rental charges are
24 treated as a cost offset.

25 On this issue, practice elsewhere is

1 mixed. I -- I've seen it done both -- both ways, to -
2 - to be quite honest with you, and I can't say I have
3 a strong preference for one (1) approach versus the
4 other. Again, in my view, probably the most important
5 matter is that the trust -- is that the treatment be
6 done on a consistent basis from year to year so that
7 we're comparing apples to apples as we look at revenue
8 to cost ratios coming out of one (1) cost of service
9 study versus another.

10 The final calculation issue that arose
11 was whether net export revenue should be included at
12 all in the calculation of the revenue to cost ratios.
13 Manitoba Hydro actually calculates the ratios both
14 ways, but its subsequently focuses on the ratios with
15 the net export revenues included when it calculates
16 and discusses its revenue to cost ratios.

17 In my view, given that exports are an
18 integral and significant part of Manitoba Hydro's
19 operations, of -- of its planning, and of its planned
20 investments, the relevant calculation is one (1) that
21 actually includes the export revenues in -- in the
22 revenue-to-cost calculation.

23 If we go to side 28. In Order 164/'16,
24 the Board noted that while the results of a cost of
25 service study appear to be arithmetically exact, this

1 is not the case. Reasons for this include the fact
2 that there's no industry standard as to what's the
3 preferred cost of service methodology. I would note
4 that when Dr. Williams and Mr. Barnlund were
5 discussing this on January 3rd, reference was made to
6 NERC's cost allocation manual as being an industry
7 standard.

8 However, if one reads the preface to
9 the manual it is clear that the purpose of the manual
10 is really to provide a non -- nonjudgmental catalogue
11 of what are the available and -- approaches are out
12 there that are being used. And if you look at the
13 classification and allocation and generation costs
14 there are probably more than half a dozen
15 methodologies reviewed.

16 And on a non -- nonjudgment -- excuse
17 me -- nonjudgmental basis, the pros and cons of each
18 are -- are discussed, but no conclusion is derived as
19 to which is the most appropriate one (1).

20 If they had try -- tried to draw a conclusion, they
21 probably would have never gotten the manual published
22 or agreed to by -- by all of the commissioners.

23 Another reason why the results are not
24 exact, is that not only is there judgement involved in
25 the choice of methodology, but frequently judgements

1 simplifications are required due to data limitations
2 and considerations of practicality. Finally, the data
3 that's actually used in cost of service studies is
4 often imprecise, being based on samples for estimates
5 drawn at a particular point in time.

6 For these reasons utilities and
7 regulators common -- commonly establish a range for
8 the revenue to cost ratios, referred to as the zone of
9 reasonableness, within which a customer class's rates
10 are viewed as recovering the cost to serve that class.
11 However, in looking at the results of a cost of
12 service study and the zone of reasonableness it is
13 important to remind ourselves that, as the Board noted
14 in its order, cost of service results are but one (1)
15 input into the rate-making process.

16 Therefore, the zone of reasonableness
17 does not set the bounds for the range of revenues to
18 recover from each -- each customer class. Indeed, and
19 to be honest with you, the tendency on the part of
20 some regulators and some utilities to overlook this
21 last point during the ratesetting process was one (1)
22 of the reasons why in the cost of service proceeding
23 I actually supported including some of these
24 considerations in -- in the -- in the cost of service
25 methodology itself, because otherwise I was concerned

1 they would be overlooked when it came -- came to the
2 ratesetting process.

3 If one makes a clear distinction, as
4 the Board has done in its report, that cost of service
5 is cost causation and these other considerations come
6 into play when we're setting rates, in my mind that --
7 that is perfectly acceptable and may be even a better
8 -- better and cleaner way of approaching the whole
9 issue.

10 If we could move to slide 29, please.

11 This table is -- is taken from my interrogatory
12 response to Manitoba Hydro/Coalition Number 9, and
13 provides examples of the zones of reasonableness
14 various Canadian utilities apply to utilities -- the
15 various Canadian regulators apply to utilities. As my
16 evidence indicates and as the table shows, most
17 Canadian regulators use ranges of either 95, 105
18 percent or 90 to 110 percent.

19 As a final point I should note that
20 what you see here is not as a result of some
21 comprehensive survey, but rather reflects decisions
22 that have come to my attention while working on cost
23 of service related matters. The interrogatory
24 response also includes the date of each decision, and
25 some them go back and number of years. The reason for

1 this is that most regulators only look at cost of
2 service methodology on a periodic basis, similar to
3 the way the PUB approaches it. But in those cases and
4 in many cases the zone of reasonableness is often only
5 examined when the cost of service methodology itself
6 is -- is reviewed.

7 If we could go to slide 30, please.
8 This next slide sets out Manitoba Hydro's rate-making
9 objectives and contrasts them with the criteria for a
10 desirable rate structure as established by Bonbright,
11 who you've heard and who's been referenced a number of
12 times in this proceeding already. You can really
13 ignore -- you can ignore the numbers afterwards if you
14 want to. They really try and draw a reference to
15 where -- what number -- what number I've applied them
16 in my evidence. So if you're trying to read my
17 evidence and rate -- relate it back to the slide, the
18 -- the numbering will help you to do so.

19 There is a fair degree of alignment be
20 -- between the two (2), with the notice -- noticeable
21 exceptions being Bonbright's reference to public
22 acceptability as an aspect distinct from simplicity
23 and understandability, and Manitoba Hydro's inclusion
24 of competitiveness in rates as an objective. In my
25 view, both of these additions are consistent with the

1 view that in rate-making there are also public
2 interest issues that need -- that need to be conc --
3 that need to be considered.

4 And, indeed, one could view under the
5 auspice of public acceptability that rates should be
6 competitive. They're -- they're all in my mind
7 different -- different aspects and there are other
8 aspects of concern when it comes to broader public
9 interest issues that have to be taken into account
10 when making rates.

11 If we go on to slide 31. This next
12 slide sets out my view as to how these other rate --
13 rate-making objectives come to play in the context of
14 the current General Rate Application. First, Manitoba
15 Hydro's requested 7.9 rate -- rate increase is already
16 four (4) times the inflation rate and, therefore,
17 challenging in terms of the objectives of rate
18 stability, gradualism, and public acceptability.
19 Given this context, higher customer class rate
20 increases due to interclass revenue adjustments would
21 be even more challenging and problematic.

22 While Manitoba Hydro's rate setting
23 guidelines suggest a further rate increase of up to
24 two (2) percentage points could be considered due to
25 class revenue requirement adjustments, it must be

1 recalled that these guidelines were established number
2 of years ago and the overall rate increases were much
3 lower than what's currently being proposed.

4 With respect to efficiency,
5 compatibility with this objective is usually assessed
6 by comparing customer class rates and their marginal
7 costs. The marginal cost provided by Manitoba Hydro
8 assumed all classes have a 100 percent load factor,
9 which is clearly not the case.

10 In my evidence I adjusted the class
11 marginal cost to account for this, and concluded that
12 the average rates were less than marginal cost for all
13 classes, with the greatest disparity being in the
14 differences for the general service medium and the
15 general service large classes. However, since the
16 preparation of my evidence Manitoba Hydro has updated
17 its marginal costs and the new values are considerably
18 lower than what were provided in the application.

19 If we could maybe flip forward one (1)
20 slide to slide 22 -- excuse me, 32, just briefly here.
21 Here I've tried to rework my schedule 23 from my
22 evidence using Manitoba Hydro's current new marginal
23 cost values. The new results indicate that for most
24 customer classes average revenue is now greater than
25 marginal costs and that the greatest differences exist

1 for the -- for residential where the ratio is 125.5
2 percent, and for the general service small non-demand
3 customers where the ratio was 141.9 percent.

4 Now, it should be noted that these
5 results do not include any load factor adjustment for
6 generation due to the fact that such a -- such an
7 adjustment would only apply to the capacity portion
8 and we can't put that out due to confidentiality
9 reasons.

10 However, if one was to include it, I
11 would predict that it would tend to increase the
12 marginal cost for the smaller volume customers by --
13 by a greater amount than for the larger volume
14 customers, which would tend to move the ratios for the
15 residential and the general service small customer
16 classes down somewhat.

17 However, it's not clear how material
18 the effect would be since values for capacity are not
19 included in Hydro's marginal cost prior to the year
20 2031. And with the discounting that involves in
21 calculating their marginal costs, I -- I would say --
22 I don't know what effect having capacity cost in --
23 just in the later periods has on the overall value.
24 Also, the results do not reflect the fact that
25 customer classes have different time of use profiles,

1 which will to some extent impact their marginal costs.

2 And finally, I have not included any
3 environmental adders in the marginal cost
4 calculations. This is based on the view that absent
5 any specific direct -- directive from government the
6 price signals Manitoba Hydro should be sending
7 customers should be based on the costs it incurs to
8 serve them.

9 If we can maybe return to slide 31.

10 DR. BYRON WILLIAMS: Mr. Harper, can I
11 just stay on slide 32 for second. In terms of
12 environmental adders or -- or not, you're well aware
13 of -- of the environmental consequences of
14 hydroelectric development on the Nelson River? Or
15 you're aware at least to some degree that there were
16 significant environmental impacts?

17 MR. WILLIAM HARPER: You're -- you're
18 talking about the local -- the local environmental
19 impacts as a result of the -- of the development of
20 those facilities?

21 DR. BYRON WILLIAMS: Yes.

22 MR. WILLIAM HARPER: Yes, I am.

23 DR. BYRON WILLIAMS: And environmental
24 impacts and human impacts. Sir, and to the extent
25 that there are mitigation costs associated what with

1 that, not suggesting in any way that they can -- can
2 ever wholly compensate people, would those be captured
3 in the -- in the costs?

4 MR. WILLIAM HARPER: Yes, to -- to my
5 understanding the -- the mit -- mitigation costs
6 reflect payments to various parties to help offset the
7 local -- the local impacts of those developments, and
8 they are actually in -- those costs are actually
9 included in Manitoba Hydro's revenue requirement, and
10 therefore reflected in the rev -- on -- on the revenue
11 side of the calculations that you see here.

12

13 (BRIEF PAUSE)

14

15 MR. WILLIAM HARPER: If we return to
16 slide 31 then. Based on these updated marginal costs
17 average revenues for small volume customer classes
18 exceed marginal costs, while for the larger volume
19 customer classes the average revenues are roughly
20 equal to marginal cost. What this tells us is that
21 there is no basis from an efficiency perspective to
22 shift revenue responsibility from larger to smaller
23 customer classes, as that would just tend to aggravate
24 the problem more.

25 From a -- from a public policy and

1 public acceptability perspective, issues that carry
2 forward from previous -- previous proceedings and
3 continue to be relevant are the impacts on low income
4 customers, impacts on space heating customers,
5 particularly those in non-gas areas, and the uniform
6 rate adjustment.

7 Overall, it is for the Board to
8 determine the relevance of these factors -- all of
9 these factors, along with the results of the cost of
10 service study. However, in my view, a key
11 consideration in such deliberations needs to be the
12 magnitude of the overall rate increase.

13 If we go to slide -- flip forward two
14 (2) to slide 33, please. I'd like now to turn to the
15 issue of residential rate design. One (1) matter that
16 has arisen during this proceeding is conservation or
17 inverted rates for residential customers. As you'll
18 recall these are rates where the monthly cost per
19 kilowatt hour increases after the customer has used an
20 initial amount or block of electricity, and are
21 designed such that most customers are exposed to a
22 higher rate for their incremental electricity use with
23 a view that the higher rate will encourage customers
24 to consume.

25 In my view, the first issue that needs

1 to be addressed is the purpose behind introducing
2 conservation rates, namely are the rates intended to
3 simply reduce use, or they intended to encourage
4 efficient use. That is, use where the value to the
5 customer exceeds the cost of supplying them. In my
6 view, and which I can see consistent with Bonbright's
7 rate design objectives, is the purpose should be to
8 encourage efficient use.

9 That brings us back to Manitoba Hydro's
10 current marginal costs and the estimated cost of
11 serving the residential class. As we saw in slide 32,
12 and you don't necessarily have to -- have to return
13 there right now, the marginal cost of serving the
14 residential customers is in the order of seven (7)
15 cents a kilowatt hour, well below the current energy
16 rate of approximately eight-point-two (8.2) cents a
17 kilowatt hour.

18 Furthermore, this difference is likely
19 to in -- grow in the future, if future rate increases
20 exceed the rate of inflation. As a result in the
21 current circumstance, there's no need for conservation
22 or inverted rates as it would only increase this
23 differential further, and therefore widen the
24 differential between what -- what rates customers will
25 be charged for their incremental use and the actual

1 marginal cost of using that electricity.

2 If we could go to slide 34. I'd like
3 to turn now to the issue of rates for residential
4 electric heat customers. At the Board's direction,
5 Manitoba Hydro filed an alternative rate design for
6 residential electric heating customers which would see
7 lower rates for such customers. Manitoba Hydro has
8 indicated that it is not proposing this rate be
9 implemented, but rather that it should be tested
10 during this proceeding with the view of the Board
11 provide to feedback on how they should proceed from
12 here.

13 Using the rate-making objectives
14 outlined earlier my evidence looked at Manitoba
15 Hydro's alternative rate design for electric heat and
16 non-heat customers, and compared it with existing --
17 with existing residential rate design.

18 Some of the key observations to be
19 drawn from that assessment are first, based on the
20 Board's cost of service methodology and using the
21 existing residential rates the revenue to cost ratio
22 for non-heat customers is higher than that for the
23 electric heat customers, with -- with the estimate for
24 non-heat being 103.7 percent versus 90.1 percent for
25 elect -- electric heat.

1 Providing rate relief to electric heat
2 customers would only reduce the 90.1 percent further
3 and increase the 103.7 percent of the foregone
4 revenues recovered from the balance of the residential
5 class, thereby increasing the disparity in cost
6 recovery between the two (2) groups. As a result,
7 lower rates for electric heat customers cannot be
8 justified on the basis that they result in a fair
9 apportionment of costs from a cost of service per --
10 perspective, and indeed would lead to the opposite
11 result.

12 Similarly, while insufficient
13 information is available to determine the marginal
14 cost of serving an electric heat versus a non-heat
15 customer, it is reasonable to conclude that the
16 electric heat customer's cost on the marginal basis
17 will -- will be higher.

18 This conclusion can be based on the
19 fact that electric heat customers have a lower load
20 factor, and have a higher concentration of their
21 energy use in the win -- wintertime, which is the
22 higher cost period for Manitoba Hydro. As a result,
23 if lowering the bills for electric heat customers
24 relative to non-heat customers is achieved by a lower
25 charge for incremental use, the effect would be

1 inconsistent with the efficiency objective.

2 On the other hand, various
3 constituencies, including the Board, have expressed
4 concern about the impact of electricity rates on
5 electric heating customers, particularly those who are
6 low income, or in areas where gas is not available.

7 As a result it is fair to conclude that
8 the cost of electric heating is a matter of some
9 concern when -- when it comes to public policy and
10 public acceptability. Indeed, overall the
11 justification for lower rates for electric heating
12 would appear to rest almost entirely on its merits
13 with respect to public policy and public acceptability
14 considerations.

15 Recognizing I was likely to be asked
16 what my views were on whether such a rate should be
17 offered, I struggled to come up with an answer. Based
18 strictly on cost of service and efficiency
19 considerations, the answer is relatively easy.
20 However, the Board has acknowledged that public
21 interest considerations will also be taken into
22 account in its determinations.

23 So the question arises as to what
24 weight to give to concerns regarding the impact of
25 higher bills on those customers that use elect --

1 electric heat, particularly those with limited income
2 or limited alternative options for space heating.

3 This is where I personally run into
4 difficulty, because weighing these sorts of
5 considerations is beyond my area of expertise, but
6 also because there is limited information available on
7 how Manitoba Hydro's customers would view such a
8 proposal. And not living in Manitoba, I don't have
9 any first-hand experience to bring to this at all.

10 Also, there are a number of details
11 that still need to be resolved and which are likely
12 critical in establishing what -- what in the end the
13 public acceptability for such a rate would be. What -
14 - what I'm often quoted as saying in many workgroups I
15 participate is the devil is in the details. And until
16 you've worked out the details, the acceptability of
17 something is sometimes hard -- hard to determine. As
18 a result, I find it -- I find myself unable to offer
19 you an expert opinion on whether electric heat rate
20 should be implanted or not.

21 DR. BYRON WILLIAMS: Mr. Harper, can
22 you -- before you leave this page. You referenced not
23 a lot of insight from Manitoba Hydro in terms of how
24 Manitobans view this issue.

25 How does one get this insight based

1 upon your experience in other jurisdictions? Like,
2 what are the processes which one could undertake to
3 get insight into the perspectives on this?

4 MR. WILLIAM HARPER: Well, I -- I think
5 one (1) such process is the one (1) the Board is going
6 through here right now, in terms of hearing directly
7 from various parties. I've understood you've heard
8 indirectly from thousands of customers, if I'm not
9 mistaken, in terms of comm -- communicating with you
10 and expressing their concerns or interest in various
11 aspects of the general rate application.

12 Another area is -- another way is to
13 actually go out and do some form of -- of outreach
14 with -- with customers, asking them either through
15 surveys or through focus groups as to what their -- as
16 to what their deference is to offering these sorts of
17 rates, and what might be their tipping point as to how
18 -- how much they -- they are willing to -- to
19 contribute.

20 I -- I think -- you know, and on a
21 parallel matter, and may we need to draw some analogy,
22 and it's maybe anal -- analogous, but I think it's
23 useful to note that the Ontario Energy Board has
24 recently changed its -- its approach in terms of what
25 it expects utilities to do when it's coming forward

1 with rate applications. And it expects utilities to
2 be communicating more with their customers in the past
3 about what the customers want and what -- what the
4 customers expect and what the customers are willing to
5 pay for before they bring an application be -- before
6 the Board.

7 And they've now actually instituted
8 that utilities have to hold town halls on their
9 applications with -- with. And I've actually seen
10 utilities revise their applications as a result of the
11 town halls that took place and the feedback they've
12 gotten from -- from them. So I think that there are a
13 num -- number of different ways that you can get this
14 information. And actually the -- like I said, the
15 proceeding we're having here right now is -- is
16 definitely one (1) of them.

17 DR. BYRON WILLIAMS: Thank you.

18 MR. WILLIAM HARPER: That being said,
19 I believe I am in a position to help define and frame
20 some of the issues that would need to be considered if
21 such a rate was to be implemented. First is the form
22 of -- of the rate and whether it should be a
23 proportional discount where the bill reduction
24 increases with the amount of electricity used, as is
25 the case with Manitoba Hydro's alternative rate

1 design, or where the discount is essentially a fixed
2 dollar amount, which -- which it would be for most
3 customers under Mr. Chernick's proposal.

4 The trade-off here is that the
5 proportional discount approach offers greater relief
6 to those customers with larger space heating bills.
7 Whereas, the approach suggested by Mr. Chernick
8 maintains the same price for incremental usage and
9 therefore does not run afoul of the efficiency
10 objective we talked about earlier.

11 As an economist I may prefer Mr. -- Mr.
12 Chernick's approach. However, if the objective is to
13 provide needed assistance to electric space in
14 question -- customers, excuse me, the question arises
15 as to whether offering the same level of the discount
16 to everybody in Manitoba is a reasonable approach.

17 Clearly, one (1) of the related issues
18 to this is the wide variation in climate and heating
19 requirements, where the heating degree days in
20 northern Manitoba are considerably higher than those
21 in southern Manitoba and whether, if you were doing a
22 rate like this, have -- having a fixed to discount is
23 appropriate. And if you had a fixed discount, how
24 would you design it given that the level of relief for
25 northern Manitobans is always a quite a bit higher

1 than for southern Manitobans.

2 Another issue is the question of
3 whether the rate should focus just on residential
4 heating customers in areas where gas is not available.
5 The -- the legislative requirement for uniform rates
6 would -- would appear to preclude offering rates that
7 take into account such differences. However, if
8 electric heat rates are an issue the Board wishes to
9 pursue, I believe the question of exactly what the
10 legislation persuades -- precludes, excuse me, should
11 be looked at more closely.

12 The second question is, is when the
13 rate should be available. Under the Manitoba Hydro
14 alternative rate design the lower rate is offered for
15 all use during the year. In contrast, Mr. Chernick's
16 proposed design only offers a lower discount during
17 the winter months. From my perspective, if the issue
18 is the affordability of electric space heating then a
19 rate reduction that is only available in the winter is
20 more appropriate and likely be more -- more publicly
21 acceptable to -- to parties that have to support that
22 rate.

23 However, there are practical issues
24 with implementing rates that vary by the season, as
25 Manitoba October Hydro only reads every customer's

1 meter once every two (2) months, and the billing
2 cycles don't align with either the seasons or the
3 calendar months of the year.

4 Before moving to rates that vary by
5 season it will be necessary to consider the
6 implications from both Manitoba Hydro's perspective in
7 terms of its billing systems, and also from the
8 customer's perspective in terms of the
9 understandability of their bills if there has to be
10 some adjustment or something, less than a perfect way
11 of calculating the bill due -- due to problems with
12 Manitoba Hydro's metering practices.

13 Finally, there's the question of how
14 the revenue foregone as a result of the lower electric
15 space heat rate should be recovered. Under Manitoba
16 Hydro's proposed rate design the balance of the
17 customers in residential class are responsible for
18 making up the difference. Whereas, Mr. Chernick's
19 proposals the -- the difference is recovered, with --
20 with a few exceptions. from all of Manitoba Hydro's
21 other customers.

22 There is also a related question as to
23 what the level of foregone revenue other customers on
24 the system would be willing to find acceptable to make
25 up as -- as a difference. In my view, it would be

1 useful to understand what the tipping point is for
2 these other customers. If the funds available to
3 underwrite electric heating rates are limited this
4 will clearly impact some of your considerations around
5 rate design.

6 In terms of who should be responsible
7 for the foregone revenue it is my perspective that if
8 public policy and acceptance are the main basis for
9 implementing electric rate then there's little
10 rationale for recovering it just from the other
11 residential customers, and widening the customer base
12 would reduce the impact of any level of recovery.

13 Given these considerations, it is my
14 view that further work and research is required to
15 establish an acceptable and workable rate design,
16 including input from customers both on the general
17 public acceptability of electric space heating rates,
18 as well as on the specifics of the rate design itself.
19 In this regard, any direction the Board could provide
20 flowing from this proceeding that could help focus
21 those efforts would -- would probably be useful going
22 forward.

23 DR. BYRON WILLIAMS: Mr. Harper,
24 before you leave this slide I have a couple of
25 questions.

1 One (1) is what other jurisdictions --
2 Canadian jurisdictions are you aware of that -- that
3 use a -- for example, an all electric rate that's
4 distinguished from a standard rate?

5 MR. WILLIAM HARPER: I'm -- I'm not
6 aware of any jurisdiction that has an all electric
7 rate just for electric space heating.

8 DR. BYRON WILLIAMS: In terms of the
9 further research, hypothetically if -- if we're
10 looking at a 7.9 percent rate increase, you understand
11 the pressure is to -- to have it -- and the -- and --
12 and a decision is made by the Board to go this route,
13 you understand the pressure is to have something in
14 place before the next winter heating season?

15 MR. WILLIAM HARPER: Yes, I understand
16 the pressure. In -- in my view, count -- countering
17 that is the fact -- is that when I implement a rate --
18 when -- when I changed the cost of service
19 methodology, this is in, excuse the expression, it's -
20 - it's in the back room. It's something that goes
21 into the overall rate-making process.

22 When I design a rate that's something
23 that's going to be out there on everybody's bill and
24 everybody's going -- going to be reacting to. As a
25 result, I think it's important that time is taken to

1 make sure that it's implemented properly, because it's
2 going to happen -- it's going to apply to everybody,
3 and that it's done in a way that everybody will --
4 will un -- understand, because everybody is going to
5 be trying to read their bill.

6 In my view, that's particularly
7 important for initiatives such as this that are very
8 new, because if -- if you get it wrong, and it may be
9 a good idea, but if getting it wrong in implementation
10 creates a backlash such that the idea -- the baby gets
11 thrown out with the bath water, to be quite blunt
12 about it, you've -- you've probably done more harm
13 than good. I think careful consideration in
14 implementing a really fundamentally new rate is -- is
15 something that's quite -- quite critical in my view.

16 DR. BYRON WILLIAMS: And -- and based
17 on your many years of experience, both with Ontario
18 and -- and in other jurisdictions, do you have any
19 sense of is -- is this a three (3) month project, sir,
20 to do further research? Is it a six (6) month
21 project? Is it a three (3) year project? What's --
22 do you have any sense of that directionally, sir?

23 MR. WILLIAM HARPER: Well, I think to
24 some extent the -- the time -- the time that will be
25 required is -- is a matter of what's the level of

1 commitment that's given to -- to the partic -- to the
2 particular initiative. I -- I think if there is a
3 commitment on all parties' part and the parties are
4 participating, I would think -- and I think I
5 addressed this in one (1) of my IR responses. I would
6 think something in order of six (6) to twelve (12)
7 months is something that -- that would be reasonable.

8 DR. BYRON WILLIAMS: Thank you. And I
9 am sorry to interrupt.

10 MR. WILLIAM HARPER: If we go to slide
11 36. In previous proceeding various parties have also
12 expressed concerns about the impact of electric rates
13 on low-income customers. These concerns have been
14 echoed in previous Board orders which led up to the
15 bill -- the Bill Affordability Workgroup.

16 In its report the working group
17 explored various approaches to offering direct rate
18 relief to low-income customers, but did not recommend
19 any of them due to a lack of consensus. In this
20 proceeding, while Manitoba Hydro's application did not
21 include any alternative rate designs for low-income
22 customers, the evidence put forward by Mr. Chernick on
23 behalf of GAC has.

24 In response to interrogatories from the
25 Public Utilities Board staff and Manitoba Hydro I have

1 provided a high-level assessment of how the various
2 low income rate options considered by the working
3 group and Mr. Chernick align with the generally
4 accepted rate-make -- making objectives. With respect
5 to cost of service considerations, there is no
6 available information on how the cost to serve low
7 income customers compares with the cost to serve other
8 residential customers.

9 However, it is clear that low income
10 and non-low income customers can't have similar levels
11 of usage, such that reduced rates for low-income
12 customers could be viewed as unfair if you looking at
13 it just from a cost of service perspective.
14 Similarly, there is no information available to
15 indicate what the relative marginal cost is of serving
16 a typical low income customer versus other residential
17 customers.

18 However, if reducing the bills for low-
19 income customers is achieved by a lower charge for
20 incremental use, the effect would be to alter the
21 pricing signal for those customers versus other
22 residential customers which on -- on general, could --
23 could lead to inefficient decisions overall.

24 One (1) of the greatest challenges with
25 low income rates would be the implementation in terms

1 of -- in terms of establishing who would be eligible
2 and setting up the process as to that -- that
3 potential participants. Reference has been made to
4 adopting the same approach as used for Manitoba
5 Hydro's low income DSM programs. However, annual
6 participation in those programs is less than 5 percent
7 of the total number of low income customers in
8 Manitoba.

9 So is not clear to me that the same
10 approach would be workable if we went forward to
11 implement low-income rates where you could see -- now,
12 you probably wouldn't see in reality twenty (20) times
13 the number of applicants, but you would see orders of
14 magnitude higher. And there would also be issues
15 about having to re -- regularly re-qualify all of
16 those customers on an ongoing basis, whether it be
17 every one (1) or two (2) years.

18 Suggestions have often been made that
19 customers who are already qualified for certain social
20 assistance could automatically be deemed eligible for
21 a low income electricity rate, and this would help
22 simplify the problem. However, issues arise if the
23 social assistance being received also include some
24 support for -- for electricity bills, and careful
25 consideration would have to be given as to what types

1 of -- of social program qual -- eligibility on one (1)
2 side would allow you to participate in the low income
3 rate. In other cases, maybe it would -- it would
4 disqualify you from participating. I think, again,
5 some consideration of that would need to be made.

6 Overall, the situation is similar to
7 that with respect to electric heat rates in that the
8 impetus for the rate comes from various
9 constituencies, including the PUB, who express
10 concerns about the impact of electricity rates on low-
11 income customers. And the justification for low-
12 income rates would appear to rest on its merits with
13 respect to -- with respect to public policy and public
14 acceptability considerations.

15 As such, I find myself in a similar
16 situation as I did with electric heat rates, in that
17 weighing these sorts of considerations is beyond my
18 area of expertise and there's limited information as
19 to how Manitoba Hydro's customers view -- view the
20 situation. However, in this case, there are also a
21 number of details that would need to be -- be
22 resolved, even more details than in the electric
23 heating case in terms of the implementation, the
24 qualification, and administration of the program.

25 If we go to slide 38.

1 DR. BYRON WILLIAMS: 38 or 37?

2 MR. WILLIAM HARPER: 37. Yeah.

3 Sorry. How I -- okay, yes. Again, however, I believe
4 I can be of some assistance to the Board in framing
5 some of the rate design issues that would need to be
6 considered. The first issue is how a low-income
7 customer should be defined for purposes of the rate.
8 Manitoba Hydro already has a definition of low income
9 for purposes of programs funded by the Affordable
10 Energy Fund, and there would be merit in using a
11 common definition.

12 Also, in selecting a definition it is
13 important to keep in mind the ease and -- the ease or
14 difficulty involved in administering the definition.
15 There is -- there -- there is practice and experience
16 in administering the definition Manitoba Hydro
17 currently uses and, therefore, in my mind that -- that
18 provided strong -- strong support for using a similar
19 definition going forward.

20 The second issue is the form of the
21 rate, specifically whether it's a fixed discount
22 similar to that in Ontario or as suggested by Mr.
23 Chernick, or takes the form of a lower rate or
24 percentage discount on the bill. Clearly, the latter
25 approach provides greater relief to customers with

1 higher usage and, therefore, higher bills. But it
2 also means that these customers are receiving a
3 different pricing signal regarding the cost of using
4 electricity.

5 Again, there -- there is a trade-off to
6 be made here, and there's some questions as to
7 which way. And any direction as to which -- which of
8 those two (2) directions would be preferable would be
9 useful.

10 Finally, there's a question similar to
11 that with respect to electric heat customers as to how
12 the foregone revenue resulting from a low income rate
13 should be recovered, as well as a question of what
14 level of foregone revenue would be acceptable to other
15 -- other customers on the system. Again, it would be
16 useful to understand their tipping point.

17 In terms of who should be responsible
18 for the foregone revenue, again, it is my view that if
19 this is a public policy or public acceptability
20 perspective there -- there is no reason why the
21 recovery should be limited just to other residential
22 customers or ineligible residential customers.
23 Indeed, some of those ineligible residential customers
24 may be low-income customers that for some reason or
25 other did not -- did not apply. And it should be --

1 and it should be spread over the broader base of all
2 customers on the system.

3 Again, given the foregoing comments, in
4 my view there is some additional work that needs to be
5 done, again, in this area be -- before one can decide
6 on what form of low income rate should -- should be
7 implemented, if that's the way the Board chooses to
8 go. Any direction the Board can provide in this would
9 be useful.

10 DR. BYRON WILLIAMS: Mr. Harper,
11 timewise, again, any sense of -- of the time?

12 MR. WILLIAM HARPER: Again, I think
13 the -- I think the same time frame as I referenced
14 before. Six (6) to twelve (12) months would -- would
15 probably be useful. Again, it depends on the -- on
16 the level of effort you put on it. In -- in Ontario
17 when they started setting up the entire electricity
18 support program, I was involved in the -- in the ini -
19 - in the initial working group that -- that was doing
20 and participated for probably about two (2) months, I
21 think.

22 And then, to be quite honest with you,
23 the meetings were full day meetings once every two (2)
24 weeks. And between that and the fact that there were
25 people from other public and social agencies on the

1 group who I found quite -- quite articulate and quite
2 able to re -- represent the interests of their
3 particular parties, I felt that my time could best --
4 could best be spent elsewhere and I bowed out of
5 further participation in -- in the group. But again,
6 that -- that group, in a concerted effort, the -- the
7 program was put together in a fairly reasonable period
8 of time.

9 DR. BYRON WILLIAMS: Do -- have you
10 explored the participation rates in -- in the Ontario
11 program? And is there any publicly available data
12 related to it?

13 MR. WILLIAM HARPER: Actually, prior
14 to coming here I did try to look and see if there was
15 any publicly available data available on what was the
16 level of participation. And -- and, unfortunately,
17 no. This -- this is to a large extent a government
18 program and often information on government programs
19 is somewhat limited. If it had been a full OED
20 program there probably would've been a lot more annual
21 reporting on it, and such information would -- would
22 be available. So I haven't seen any publicly
23 available statistics. For what it's worth, and you
24 can give it whatever weight it's worth, I -- I have
25 heard indirectly that the participation rate is

1 something less than 50 percent.

2 If we could maybe move to the last
3 slide. During the course of this proceeding there has
4 been some discussion of what constitutes rate shock.
5 In my view, rate shock cannot be parsed into what's
6 acceptable from a GRA implications versus what
7 successful permit an interclass shift due to cost of
8 service considerations versus what's acceptable from a
9 rate design consideration.

10 To be frank, at the end of the day
11 customers are only looking at the total bill and how
12 much it has changed. And -- and instead what rate
13 shock considerations have to take into account is
14 what's the impact on -- on the total bill as supposed
15 to saying, Well, if it's so much just -- just for the
16 GRA we're happy there, or we're happy with -- with
17 this piece. It's the total bill that's important.

18 Also, while 10 percent is referenced as
19 a benchmark for rate shock, I don't believe there is a
20 single standard that is applicable in all situations.
21 Customer tolerances for high rate increases are
22 influenced by a number of factors, including their
23 expectations regarding inflation, their experience
24 regarding past rate increases, and to be quite honest,
25 their perceived understanding of the reasons for the

1 proposed rate -- rate increases.

2 To some extent, this is part of the
3 problem that -- that Ontario has been having. We've
4 been having large rate increases, but the perception
5 is that a lot of the reason for those large rate
6 increases are fundamentally problems with the
7 management of the system as opposed to cost drivers,
8 and that's what's led to a lot of the outcry there.

9 With -- with that I'll -- I'll conclude
10 my presentation, and then take the break now or have --
11 answer any questions the Board panel may have right
12 now.

13 DR. BYRON WILLIAMS: Thank you. And I
14 apologize for running five (5) minutes. That's --
15 that's my bad.

16 THE CHAIRPERSON: That's fine. Thank
17 you, Mr. Harper. We're -- we'll take a fifteen (15)
18 minute break now. Thank you.

19

20 --- Upon recessing at 10:35 a.m.

21 --- Upon resuming at 10:53 a.m.

22

23 THE CHAIRPERSON: Okay, if we could
24 resume. Mr. Cordingley, you're up?

25 MR. DAVID CORDINGLEY: Thank you, Mr.

1 Chair.

2

3 CROSS-EXAMINATION BY MR. DAVID CORDINGLEY:

4 MR. DAVID CORDINGLEY: Mr. Harper, I
5 have a number of questions for you from -- on behalf
6 of the Green Action Centre, primarily focusing today
7 on marginal costs but -- but -- but primarily rate
8 design issues.

9 Before we go there, though, perhaps an
10 easy question for me to ask, maybe not for you to
11 answer: In your material I see two (2) proposals from
12 you or two (2) projected rate trajectories that you
13 suggest would meet the capital cost coverage debt-to-
14 equity ratio over a certain number of years.

15 So -- so -- so one -- one (1) scenario
16 that you put before us is from your report and you
17 suggest that if a rate trajectory of 3.95 percent
18 through 2015 -- 2033/2034 would meet the debt-to-
19 equity ratio that was discussed at the NFAT/

20 I'm right on that?

21 MR. WILLIAM HARPER: Well, that was
22 based on a certain financial forecast, the financial
23 forecast that Manitoba Hydro, you -- one, I wasn't
24 recommending any particular rate trajectory. I --
25 sort of let's take -- take this in bites.

1 What I was commenting on was what --
2 what rate trajectory would be required if we accept
3 Manitoba Hydro's current integrated financial forecast
4 2016 to bring us back in line with the -- where --
5 where we were arriving in terms of a debt/equity ratio
6 by 2033/'34 and the type of target that we saw being
7 used in the previous -- in the previous plans.

8 So it was a matter of what -- what --
9 what rate increase for what period of time would be
10 required to bring us back in line with sort of the
11 outlooks that have been -- that have been talked about
12 prev -- previously, you know, to -- to propose a
13 particular rate trajectory assumes that you -- you --
14 you are comfortable with all of the underlying costs
15 that go into that rate trajectory; that wasn't part of
16 what I was looking at when I prepared my evidence.

17 MR. DAVID CORDINGLEY: And -- and you
18 may -- you may have answered my -- my -- my ultimate
19 question there. To wrap it up nicely for my notes,
20 the -- the other alternative that you look at, or that
21 you've -- you've considered is from your slide
22 presentation we saw and it was annual increases of
23 4.34 percent would achieve that same -- the
24 debt/equity ratio accepted previously at the NFAT in
25 2033/'34; is that correct?

1 MR. WILLIAM HARPER: And the number
2 changes because it's -- it's being applied to a
3 different financial forecast now. It's been applied
4 to an updated financial forecast with a different
5 weighted average -- assuming a different debt
6 management strategy.

7 And so as -- the -- an underlying cost
8 change because of those updates, you -- you would
9 require a different average annual rate increase in
10 order to get to the same target debt ratio by -- by
11 the year 2033/'34.

12 Again, it was -- it was more a matter
13 of saying, given that forecast, what's the level of
14 rate increase that -- that would bring us back to that
15 same debt ratio we've been looking at in previous
16 forecasts.

17 MR. DAVID CORDINGLEY: And as I
18 understand it, Mr. Harper, you've acc -- you -- you
19 haven't done a deep dive into Manitoba Hydro's
20 forecasts insofar as you're accepting them -- some of
21 the fundamentals of them at --

22 MR. WILLIAM HARPER: Right. For --
23 for purposes of the exercise because what I was trying
24 to look at was the claim by Manitoba Hydro that
25 there'd been a change and how material the change had

1 been and, clearly, Manitoba Hydro and looking at
2 change is using its own forecasts. And so I was
3 trying to use the same information that Manitoba Hydro
4 would -- would be using when -- when -- when it was
5 trying to look at how -- how or if things had changed.

6 MR. DAVID CORDINGLEY: Right, correct.
7 Thank you. So -- so I take it then, and you may have
8 gotten there already, you're not making a
9 recommendation for any particular scenario with
10 respect to either a 4.34 percent rate increase
11 trajectory -- I'll say trajectory going forward -- or
12 -- or a longer trajectory of the 3.95, assuming you
13 want to reach the -- the debt-to-equity ratio?

14 MR. WILLIAM HARPER: No. I guess what
15 I would say, and the way you could interpret my
16 evidence is, is that if -- if you -- there hasn't been
17 a change -- in my mind there hasn't been a fundamental
18 change in outlook. If you look forward through to
19 2033/'34, these are -- what happened with -- on the
20 previous plans versus what will arise with a plan now
21 based on a modest -- a modestly higher increase of
22 4.34 percent.

23 If -- if you have that same view of how
24 we should be managing rates over the fut -- future as
25 -- as we had -- as we had previously, I believe, you

1 know, the panel, the Board, heard from yesterday was
2 speaking specifically to whether or not the types of
3 financial metrics and the types of sort of financial
4 thoughts that went into that plan whether -- whether
5 the previous plan was acceptable or whether Manitoba
6 Hydro's view that, no, we -- we have to -- we have to
7 improve things much better, faster is the appropriate
8 way; that was the evidence that was dealt with
9 yesterday.

10 What I was looking at was the question
11 of if you assume that that isn't the case and the way
12 we were going to improve things in the past is still
13 acceptable, what sort of rate increase would be
14 required and if things fundamentally changed.

15 MR. DAVID CORDINGLEY: Okay. Let me
16 move on to -- to ask you about marginal cost. It
17 arose a number points in your slide presentation, one
18 with respect to inclining rates and one with respect
19 to rate design.

20 I take it you'll accept that -- that
21 marginal cost can play a significant role in rate
22 design?

23 MR. WILLIAM HARPER: Yes, there -- I
24 would say they're -- they're one (1) of the inputs and
25 depending upon the particular emphasis the Corporation

1 or the reg -- the time wants to -- wants to put into
2 it, it -- it can be a significant play -- play on the
3 rate design, yes.

4 MR. DAVID CORDINGLEY: Have you --
5 have you, sir, had an opportunity to review Mr.
6 Chernick's evidence and, particularly, his critique of
7 marginal costs?

8 MR. WILLIAM HARPER: I read through
9 his evidence and -- and -- and his critique. His cri
10 -- to be quite honest, his critique involved a
11 critique of some fairly extensive documents that
12 Manitoba Hydro had produced on distribution, marginal
13 costs and transmission marginal costs and I think to
14 fully appreciate sort of that, I would've had to go
15 back and look at those documents and that -- that was
16 not some -- that was not something that -- that I did.
17

18 So I looked at his critique. I
19 understood, in general, what -- what some of his
20 critique was, but I didn't go back and try on my own
21 time, my -- verify or determine whether or not I -- I
22 agreed with him or not, no.

23 MR. DAVID CORDINGLEY: Sir, is it fair
24 to say that if marginal costs are recalculated as per
25 Mr. Chernick's recalculation that might affect -- or

1 that would -- would affect recommendations on rate
2 design or considerations on rate design?

3 MR. WILLIAM HARPER: Well, I guess you
4 know, Mr. Chernick made a number of recommendations.
5 I can't remember off the top of my head precisely what
6 each -- each of them were. If you were -- if you were
7 more specific perhaps on whether -- whether there was
8 -- I'm sorry, I -- I think at the end of the day, the
9 question is: At a general level Mr. Chernick's
10 recommendations ended up increasing marginal costs
11 higher than what Manitoba Hydro had put forward and
12 higher than what my calculations were. I think
13 primarily because of the inclusion of the
14 environmental adders.

15 I haven't -- it would be interesting to
16 see, and I apologize, I don't know whether or not with
17 the reduction in Manitoba Hydro's marginal cost is
18 they're now con -- down considerably lower. When you
19 add in those envi -- even after you add in those
20 environmental adders how that comes out relative to
21 the rates for certain customer classes, you take the
22 general -- general service small non-demand, they're
23 roughly 40 percent in excess of revenues. Now, I'm
24 not too sure whether adding an environmental cost
25 would bring them back up, so I think it would depend

1 very much on which customer class you were looking at
2 as to what the im -- what the -- final implications
3 would be.

4 MR. DAVID CORDINGLEY: So Mr. -- Mr.
5 Harper, if -- if -- if I could turn you, perhaps, to
6 your slide 33. One of your points with respect to
7 conservation rates was that -- is the second point
8 that as current residential marginal costs are -- are
9 less than the energy rate, you didn't find a basis for
10 conservation rates at this time.

11 Is it -- if that were to flip around,
12 so if grea -- less than sign was to flip around, would
13 that change your recommendation then as to whether
14 conservation rates may be -- there may be a basis for
15 cons -- conservation rates at this time?

16 MR. WILLIAM HARPER: Yes, it would
17 actually, and I think with -- and actually, that was
18 the basis I was asked an interrogatory I think by the
19 Public Utilities Board staff as to what
20 recommendations I've made in another jurisdictions on
21 this particular issue.

22 And the one (1) place where -- where --
23 - where -- did appear frequently on this issue was in
24 -- was in Quebec and their -- their marginal costs
25 were in excess of the rates and I was supportive of

1 the conservation or inverted rate design that Hydro
2 Quebec was putting forward at that point in time.

3 I think maybe history and lessons
4 learned since then have taught me that I think one has
5 -- one wants to maybe look at the basis for the
6 marginal cost a bit closer. Marginal costs tend to
7 move around -- can sometimes move around from one
8 estimate to another, just as we've see in -- in this
9 proceeding, and rates can't move around to the same
10 extent that marginal costs move around; if you're
11 interested in gradualism and rate -- and rate -- rate
12 stability.

13 So I think you have to take them as a
14 signal more than a precise number you'd want to target
15 on; that's the only caveat but I think yes, but just
16 as a signal as opposed to a number to sort of try and
17 target on.

18 MR. DAVID CORDINGLEY: Assuming, sir,
19 that the marginal costs calculation was to change as
20 well such that marginal costs were recalculated to be
21 greater than current energy rates, would that also --
22 also affect how you would design -- design a
23 affordability rate?

24 MR. WILLIAM HARPER: I think it -- if
25 it did, it would be well down on the list of consi --

1 of considerations I would want to take -- I would want
2 to take into play. I think the -- I think you have to
3 recognize a conservation rate when you're designing it
4 by the very name of it, and I've talked about whether
5 it's efficiency or conservation, you -- you have an
6 objective there, and therefore, you're trying to align
7 sort of the inputs you're using for the rate with
8 what's the objective you're -- you're trying to
9 achieve.

10 I think when you're designing a low
11 income rate, perhaps the efficiency objective may --
12 something you have to bear in mind, but I don't think
13 it's nearly as much front and centre as it would be
14 when you are designing a con -- a conservation rate.

15 MR. DAVID CORDINGLEY: Sir, as I
16 understand it, in -- in -- in re-calculating or doing
17 a deeper dive into the marginal cost rate, Mr.
18 Chernick identified three (3) -- three (3) issues that
19 he felt led to an underestimate of costs; one being
20 transmission distribution costs; second being an
21 underestimate of generation costs; and then the third
22 which we've -- we've sort of touched on already is the
23 environmental costs and how they're included.

24 Are you aware that he touched on all
25 three (3) issues?

1 MR. WILLIAM HARPER: Yes. And I -- I
2 can't remember -- when -- when you say underestimates
3 of generation costs, I'm not too sure and I don't
4 recall if that was the same issue I had about sort of
5 the treatment of -- of generation capacity costs and
6 the fact that if you were to try and sort of tease
7 them out and apply load factor adjustments to them you
8 might end up with -- with a slightly higher number. I
9 think that was the issue he -- he was raising and that
10 was something I -- I recognized in my evidence.

11 I'm sorry, what -- what was the -- the
12 other -- I know he took some exception to -- to the
13 transmission and distribution costs. I basically
14 accepted those as given in my -- in my particular
15 calculations and didn't make reference --

16 MR. DAVID CORDINGLEY: That -- that
17 wouldn't have been an area that you would have looked
18 into with -- within the way that Mr. Chernick did?

19 MR. WILLIAM HARPER: No. No, I
20 didn't. I appreciate he -- he spent a fair -- he
21 spent a fair amount of time on it and raise -- and
22 raised the issue and I...

23 MR. DAVID CORDINGLEY: With -- with
24 respect to the environmental costs, you've mentioned
25 you -- you've treated those differently insofar as

1 you're not including those in your marginal cost
2 estimate; is that --

3 MR. WILLIAM HARPER: No, not in my
4 marginal cost if you're wanting to use them for -- for
5 rate design purposes, no.

6 MR. DAVID CORDINGLEY: Your rate
7 design purposes. And you -- I believe you mentioned
8 that that would be something that ought to come from
9 direction of government.

10 Was that -- am I -- am I paraphrasing
11 you correctly?

12 MR. WILLIAM HARPER: Well, I -- I
13 think what I was trying to say was that I think if
14 you're use -- when you're designing rates for rate --
15 rate design and sending cost signals and your view is
16 those cost signals is what are the implications of the
17 customer's decisions on the cost they're going to see
18 in the future, because that's effectively what you're
19 trying to do here. You -- you should be including in
20 those, what are the types of costs that are going to
21 be built into their rates in the future, and that so -
22 - and that doesn't include environmental costs for --
23 for issues south of the border right now.

24 You know, and it would only be if -- if
25 either (a), for some reason there was a reason to

1 include a -- levy and include additional
2 environmental costs on electricity in Manitoba or that
3 -- or -- or I guess that was the other exception, or
4 if the government made an explicit decision that there
5 is no cost, but we think in the rates there should be
6 a cost and that was a policy directive from the --
7 from the government and that was more the reference I
8 was making there.

9 MR. DAVID CORDINGLEY: Thank you.
10 Thank you, sir. Would that not be a policy direction,
11 a policy decision that this Board could -- could
12 consider now in the same way that it's considering
13 policy decisions with respect to -- or policy
14 considerations with respect to impact on low income or
15 impact on electric -- all electric heat?

16 Is that -- is environmental
17 consideration, would that not fall along the same
18 lines?

19 MR. WILLIAM HARPER: I -- I don't see
20 them as being parallel. And I think, you know -- you
21 know, clearly whether you have low income rates,
22 electric heat rates, time-of-use rates for industrial
23 customers, any of those, those are rates to the
24 customers, that's what the Board here is being asked
25 to approve. It's very -- you're much in line, you

1 know.

2 When -- when you're talking about the
3 types of things that may be -- should be included,
4 I mean, I think that -- I think you're right that the
5 Board can make any -- any recommendations they want,
6 but I don't see -- see it as being as closely related
7 to their mandate as -- as the other rates you were
8 talking about.

9 MR. DAVID CORDINGLEY: Okay. Sir,
10 we've already touched on your review of Manitoba
11 Hydro's justification for the requested rate increase
12 insofar as that comes out of -- arises out of deter --
13 deteriorating conditions and -- and your finding that
14 there may be not as bad as Manitoba Hydro is
15 forecasting.

16 MR. WILLIAM HARPER: Right. They're -
17 - they're not as bad as to justify 7.9 percent.

18 MR. DAVID CORDINGLEY: Right, correct.
19 We've heard other or I've leached other -- other
20 justifications out of the -- out of proceeding. I was
21 hoping I could put those to you and see what, if any,
22 weight you would give those or -- or if you've
23 considered them. And there's three (3) others, as I
24 see it.

25 One is -- is with -- we've heard about

1 -- to meet expectation -- raising a rate to meet
2 expectations of bond rating agencies in order to
3 protect lower borrowing costs for the province and
4 Manitoba Hydro.

5 Are you aware that that's been one of
6 the justifications?

7 MR. WILLIAM HARPER: Yes, I -- I
8 believe if you look at Manitoba Hydro's application
9 there were really two (2) fundamental reasons for it;
10 one was the change in outlook and one was the sort of,
11 you know, the issue you've just raised now about sort
12 of a financial -- financial soundness.

13 And my mandate was to look at the first
14 issue. I believe it was Morrison Park's mandate more
15 to specifically look at the second issue. I have not
16 considered that, nor to be quite frank with you, do I
17 consider myself to have the expertise to do so.

18 MR. DAVID CORDINGLEY: Okay. Another
19 -- another justification I've -- I've -- I've picked
20 up is -- is in order to reduce risks -- increase rates
21 to reduce risks from potential adverse conditions,
22 including drought -- drought water conditions, seeing
23 as how we've already been running above-average flows,
24 I guess there's a -- potentially we could have a
25 drought -- drought -- increased average drought

1 conditions and -- and -- and one of the justifications
2 is to increase rates to protect against that.

3 Have you -- are you familiar with that?

4 MR. WILLIAM HARPER: Yes, I think
5 that's been a -- I've -- I've heard that theme in
6 previous GRAs before this -- this one, actually, and I
7 thought it was issues around what sort of reserves
8 were required which led to the whole risk proceeding
9 that took place here in a number -- number of years
10 ago, and furthermore, was the -- I understood was --
11 was the underpinning for some of the analysis that --
12 that was done and filed in this proceeding in terms of
13 the box and whiskers type analysis that's been
14 presented to the Board.

15 MR. DAVID CORDINGLEY: Has -- has that
16 been part of your analysis or have you considered that
17 in the context of this -- of this GRA?

18 MR. WILLIAM HARPER: No, I did not
19 actually. Again, I saw that as being more closely
20 related to -- to the issue that Morrison Park was
21 dealing with.

22 MR. DAVID CORDINGLEY: Finally, sir,
23 one of the other justifications I've distilled is --
24 is with respect to increasing -- increasing rates now
25 in order to in the long term have -- have lower rates

1 ten (10), fifteen (15), twenty (20) years down the
2 line; that's that the larger increases is -- is due
3 now and needed now to -- to lead to -- to forecasted
4 lower rates in the future.

5 Have you -- have you heard of that or
6 are you aware of that position?

7 MR. WILLIAM HARPER: Yes -- yes, I am.

8 MR. DAVID CORDINGLEY: Have you
9 considered that or...

10 MR. WILLIAM HARPER: I -- I didn't
11 consider it within the context of this. I think if
12 you look back at the evidence I've provided in the --
13 in the NFAT proceeding while I wasn't looking at the
14 financial forecast, I did offer an opinion and I think
15 it was somewhat similar to Morris -- to the opinion
16 raised by Morrison Park that if you are looking at
17 that, you have to look at the time value of money at
18 the same point in time. A dollar of a reduced rate in
19 2034 is not the same as a dollar reduced rate in 2024
20 or 2018. You have to look at the time value of money
21 and in my evidence -- and I believe it's in the cross-
22 examination I had from Manitoba Hydro that time, was
23 actually discussing what's an appropriate time value
24 of money given that you have to look at it from the
25 customer's perspective.

1 So I haven't looked at it now, but I
2 think the -- my view of the type of evidence I gave in
3 NFAT was very much aligned with what Morrison Park
4 said yesterday.

5

6 (BRIEF PAUSE)

7

8 MR. DAVID CORDINGLEY: Sir, jumping
9 back around then to -- to your discussion with Dr.
10 Williams -- arising out of Dr. Williams questions
11 concerning the timeframe to perform the additional
12 study surrounding low income and electric heat rates.
13 I believe you -- you -- you estimated it could take
14 six (6) to -- you -- six (6) to twelve (12) months to
15 perform the kind of study you were thinking of in
16 terms of public acceptability.

17 Am I -- is that -- am I -- am I -- did
18 I hear that right or am I understanding that right?

19 MR. WILLIAM HARPER: I think -- one, I
20 think it goes beyond public acceptability. I think
21 there are a number of implementation-related issues
22 that have to be -- that would have to be dealt with
23 with both of those rates.

24 And, as I said, I think the devil is in
25 the details and I think so -- it's not only the public

1 acceptability, sort of, that -- that's actually one
2 (1) input in -- into the implementation, the design.
3 Not only in terms of what the rate looks at but in say
4 in -- from a low-income customer, how -- how you
5 actually implement and what sorts of verification
6 process is used or what sort of mechanisms you
7 establish for -- for verification.

8 And -- but -- but you heard me right in
9 terms of the six (6) to twelve (12) months. Yes, I
10 just want to qualify, it was far more than just, you
11 know, asking -- asking for input from customers.

12 MR. DAVID CORDINGLEY: And -- and I
13 know -- I know Dr. Williams put this to you, but I'm
14 going to do it again.

15 In light of -- a decision will be made
16 on rates arising out of this GRA. One possibility is
17 that it could be -- the rate awarded could be 7.9
18 percent, and there's certainly predicted various
19 trajectories that have been put forward as options,
20 some of which include consecutive 7.9 percent
21 increases for a number of years.

22 Do you still see the benefit of
23 conducting a year-long study in light of what could be
24 seen as more urgent need to mitigate -- mitigate a
25 rate increase for the low income and electric heat?

1 MR. WILLIAM HARPER: Well and maybe I
2 should add to -- you heard my response to Dr.
3 Williams. What I might add to that is, in my view, I
4 don't think Mr. Chernick's proposal is road ready.
5 And I think he, himself, acknowledged that what he was
6 giving there was -- was examples.

7 And why don't we just take the electric
8 heat -- heat rate, for example. We're talking about a
9 seasonal rate there. I think there -- there are
10 questions that would have to be addressed by Manitoba
11 Hydro in terms of -- if we're -- if we're parsing by
12 seasons, you've given the metering cycles, given on
13 issuing bills every day of the year, how do I actually
14 define seasons? How do I implement, and that --
15 implement that in my billing system? There's probably
16 more than one way of doing so. How do I implement a
17 way in my billing system so customers will understand
18 their bills at the end of the day?

19 When it comes to the low income rate I
20 think there's even more fundamental problems in terms
21 of, you can -- again, I think it's a problem I have to
22 make sure I have the processes in place to be able to
23 manage the applications. What -- what's the
24 application process going -- going to look like? How
25 it's -- it's going to be managed.

1 Resolving those sorts of issues to even
2 make Mr. Chernick's proposal road ready, I think will
3 take some time and so, therefore, I don't see a lot of
4 difference between the two (2) in terms of the time
5 requirements needed, to tell you the honest truth.

6 MR. DAVID CORDINGLEY: Would there be
7 any value in -- in -- in piloting a project, in
8 getting boots on the ground and in learning lessons
9 from implementing a procedure, even if it's not
10 perfect and you might amend it?

11 Do you see -- do you see any value in -
12 - in that learning process?

13 MR. WILLIAM HARPER: Well, I guess
14 they were asked in terms of what ways could -- could
15 the Board get input -- a pilot study is another way.
16 Now, I think one has to watch what you mean because if
17 -- if you're talking about how is Manitoba Hydro going
18 to change its billing system to sort of manage
19 something, that change has to be made whether --
20 whether it's for a pilot or whether it's for -- for
21 everybody. So I'm not too sure if -- how the two --
22 two would line up. If it's trying -- trying to get --
23 get a sense of how customers understand their bills,
24 then -- then a pilot would be one way.

25 But I think a pilot only takes you so -

1 - so far in addressing some of the issues that I
2 noted.

3 MR. DAVID CORDINGLEY: Sir, as I
4 understand it, you -- you mentioned you played -- you
5 were involved with the Ontario affordable electricity
6 process, some while back?

7 MR. WILLIAM HARPER: Ontario
8 Electricity Support Program.

9 MR. DAVID CORDINGLEY: Okay.

10 MR. WILLIAM HARPER: Those acronyms
11 drive us all crazy, I know.

12 MR. DAVID CORDINGLEY: What was --
13 what was your role in that process?

14 MR. WILLIAM HARPER: Well -- well,
15 actually they -- they were put -- this was developed
16 under the auspice of the Ontario Energy Board and the
17 Ontario Energy Board put together a working group of
18 parties, included people from utilities, people from o
19 social agencies. I, as a consultant, worked for a --
20 an Intervenor -- a coalition of Interveners. They're
21 fairly similar to what Dr. Williams represents here
22 and I was asked on their behalf to -- to participate
23 on a -- on a working group that was sort of working
24 through -- this initiative came from government.

25 It was a matter of, okay, how are you

1 going to implement that? That was a task that was
2 given to the Ontario Energy Board. And they had this
3 working work that was established and I was one of the
4 members that was asked to participate in it.

5

6 (BRIEF PAUSE)

7

8 MR. DAVID CORDINGLEY: Sir, with that
9 Ontario process, when did you -- when were you -- did
10 you get involved in the process on behalf of those
11 Interveners? At what stage of the consultations?

12 MR. WILLIAM HARPER: Like I said, it -
13 - we -- it was shortly after -- it was when -- when --
14 like I said, the task of actually doing it, let me
15 put it that way was -- was mandated to -- to the
16 Ontario Energy Board to oversee and their first step
17 was to try and get input from people and set up a
18 working group. So I'd say it was sort of at -- at the
19 start of the process.

20 Now, you know, now that was a mandate
21 from government. So there were certain -- I'd say
22 certain parameters that were given coming in to the
23 working group's process but --

24 MR. DAVID CORDINGLEY: Were you
25 engaged at that point as -- as an expert on rate

1 design to -- to -- to provide some expertise to that
2 group?

3 MR. WILLIAM HARPER: I -- I was not
4 engaged as an independent expert, I was asked to
5 participate as somebody who could perhaps provide --
6 who -- who could provide some useful input and insight
7 into the types of issues they were dealing with.

8 MR. DAVID CORDINGLEY: And you
9 mentioned at some point you stepped back from that
10 process. How -- how far along through that working
11 group did you step back up? How far along the design
12 process were you involved?

13 MR. WILLIAM HARPER: This is where I
14 go... I'm trying -- trying to recall. It may -- may
15 be -- after a -- after a few months; sort of initially
16 got some of the initial framework together and at that
17 point in time it was getting much more into the
18 implementation details, the implementation details
19 dealing with precisely for -- manners I talked about
20 in terms of, how was this going to work with the
21 particular sort of low income customers that were
22 applying. And there were other parties there
23 representing social -- different social agencies in
24 Ontario that were -- much more boots on the ground and
25 had much -- much - much more experience than I had

1 with that and between that and the time -- time
2 commitments, I -- I bowed out, unfortunately.

3

4 (BRIEF PAUSE)

5

6 MR. DAVID CORDINGLEY: Mr. Harper,
7 those -- those my questions. Thank you so much.

8 THE CHAIRPERSON: Thank you Mr.
9 Cordingley. M. Monnin...?

10

11 CROSS-EXAMINATION BY MR. CHRISTIAN MONNIN:

12 MR. CHRISTIAN MONNIN: Thank you, Mr.
13 Chair, members of the Board. Good morning, Mr.
14 Harper. I'm -- I'm back here. I am legal counsel for
15 the General Service Small/General Service Medium
16 customer classes in addition to Keystone Agriculture
17 Producers.

18 I have a few questions for you this
19 morning. I'm allotted thirty (30) minutes, but I've
20 advised my colleagues and the Board counsel that I --
21 I expect to be about half that time.

22 The first questions I have for you, Mr.
23 Harper, pertain -- pertain to revenue to cost ratio, and
24 my understanding is the revenue to cost ratio is that
25 a revenue to cost ratio that's close to one (1), or a

1 hundred percent is considered to mean that the
2 customer class is paying its fair share, correct?

3 MR. WILLIAM HARPER: It's considered -
4 - I think you have to parse that in pieces. I think
5 we -- I've talked about the fact that how any
6 particular cost of service methodology is -- is not
7 precise. So I -- I think what you could say, it's
8 paying close to its fair share. Applying that --
9 applying that particular cost of service meth --
10 methodology, if you wanted to make a more general
11 statement in terms of its applying its fair share, I
12 think that's where the zone -- zones of reasonableness
13 issue -- issue comes in.

14 MR. CHRISTIAN MONNIN: Right.

15 MR. WILLIAM HARPER: And to some
16 extent, whether one is at 97 percent or 103 percent of
17 that broader definition, I -- I would argue you're
18 equally paying your -- your fair share.

19 MR. CHRISTIAN MONNIN: Based on that
20 answer, I might reconsider my assessment of taking
21 fifteen (15) minutes. We might be a little longer
22 this morning.

23 And so with the revenue to cost ratio,
24 the question I'd put is -- is that the revenue to cost
25 ratio of a hundred percent is unity. Is that -- is

1 that fair to say?

2 MR. WILLIAM HARPER: Yes, that's fair
3 to say.

4 MR. CHRISTIAN MONNIN: Okay. And if a
5 ratio exceeds the one point-0 (1.0), the unity by
6 enough of a margin, that class is considered --
7 appreciating that it's imprecise, that class is
8 considered to be paying more than its fair share,
9 correct?

10 MR. WILLIAM HARPER: Yes, and that's
11 where the zone of reasonableness comes in.

12 MR. CHRISTIAN MONNIN: That's right.
13 And we might as well just skip right to the zone of
14 reasonableness. I have some questions for you there.
15 And as we'd discussed earlier, the unity is a revenue
16 to cost ratio for a customer that is -- is a hundred
17 percent. And Manitoba Hydro, in its evidence earlier
18 in this hearing, referred to unity as the Holy Grail,
19 meaning it's something to strive for, but in all
20 practicality, you're probably not going to get there.
21 Is that fair to say?

22 MR. WILLIAM HARPER: That was their
23 evidence, yes.

24 MR. CHRISTIAN MONNIN: And would you
25 dispute that?

1 MR. WILLIAM HARPER: Well, I don't
2 necessarily see it as -- as the Holy Grail for -- for
3 two (2) reasons. One (1) is the one (1) reason I just
4 mentioned is that I'm -- I'm not -- I don't believe
5 the answer is that precise, and two (2), the target is
6 continually moving. And I think to -- which I think
7 is another reason why you have -- have a zone of
8 reasonableness.

9 We -- we -- we've all seen the response
10 that Manitoba Hydro gave to questions about how might
11 the zone of -- how might the revenue to cost ratios
12 change if Bipole III comes into play. So that if I
13 set up -- if I try and achieve the Holy Grail, as it's
14 been defined right now, and set a plan over three (3)
15 years, once Bipole III comes into play, the Holy Grail
16 has moved. It -- it's now some -- some -- it's now
17 somewhere else. And as I try to move through that,
18 Keeyask is going to come into service, and it's going
19 to move one (1) more time again.

20 And so I -- I think that actually adds
21 another level of imp -- imprec -- imprecision to this,
22 and so I -- I'd -- and also, the other issue, to be
23 quite honest with you, is the fact that that's the
24 Holy Grail if I was looking at things solely and
25 strictly from a cost of service perspective. When it

1 comes -- we -- we -- we've all note -- noted when it
2 comes into designing rates and setting revenue
3 requirements by customer class, it's only one (1) of
4 the consid -- one (1) -- one (1) of the considerations
5 that come into play.

6 MR. CHRISTIAN MONNIN: Right, but
7 that's -- I appreciate that there are other factors
8 that ought to be considered or can be considered at
9 the discretion of the Board, correct?

10 MR. WILLIAM HARPER: Yes.

11 MR. CHRISTIAN MONNIN: And we'll get
12 to those other factors in the line of questioning I
13 have for you, but right now, I'd like to just focus on
14 the zone of reasonableness.

15 And the zone of reasonableness that
16 this -- this Board has established for quite some time
17 is 95 to 105 percent, correct?

18 MR. WILLIAM HARPER: Yes. That was
19 established a num -- number of years ago, I believe.

20 MR. CHRISTIAN MONNIN: Subject to
21 check, I believe it's 1996.

22 MR. WILLIAM HARPER: That's right.

23 MR. CHRISTIAN MONNIN: And -- and you
24 had touched upon earlier, in your answer about Bipole
25 III coming on-stream, and Keeyask coming on-stream,

1 which will have an impact on -- on the cost causality,
2 correct?

3 MR. WILLIAM HARPER: Yes, it -- it
4 will have an impact on the percentage of costs that
5 are allocated to each customer class.

6 MR. CHRISTIAN MONNIN: And so in your
7 report -- we're looking at page -- we're going to get
8 there, but in your report -- and I didn't -- I didn't
9 hear it in your -- your presentation this morning, but
10 in -- in your report, you -- you make a suggestion of
11 broadening the zone of reasonableness, at least on an
12 interim -- or possibly on an interim basis, correct?

13 MR. WILLIAM HARPER: Yes, I think --
14 what I was saying was that there were still some
15 outstanding issues to be resolved around the cost of
16 service meth -- method -- methodology, and on that --
17 and -- and that basis, what -- what one might want --
18 want to consider being a little bit more flexible on
19 the zone of reasonableness until we've honed down on
20 exactly what -- what the cost of service methodology
21 is going to be going forward.

22 MR. CHRISTIAN MONNIN: Right. So on
23 the one hand, you -- you assert that because the
24 methodology for cost of service is still evolving,
25 there might be a broadening of the zone of

1 reasonableness, correct?

2 MR. WILLIAM HARPER: Yes.

3 MR. CHRISTIAN MONNIN: Okay. You --
4 you don't provide in your report any examples of
5 another regulatory body doing this, do you?

6 MR. WILLIAM HARPER: Doing -- doing
7 what? I'm sorry.

8 MR. CHRISTIAN MONNIN: An interim
9 broadening of the zone of reasonableness.

10 MR. WILLIAM HARPER: No. I -- I think
11 there -- there are examples of -- of regulators who,
12 given the appreciation they have of the cost of
13 service methodology, that -- that they're going to be
14 applying sort of use that as an input into how they'd
15 -- the zone of reasonableness --

16 MR. CHRISTIAN MONNIN: Correct, an
17 input, one (1) of the -- one (1) of the factors you
18 need to consider, but I'm putting a specific question
19 to you, Mr. Harper, and it's the following: You
20 mentioned the suggestion of an interim broadening of
21 the zone of reasonableness, correct?

22 MR. WILLIAM HARPER: Yes.

23 MR. CHRISTIAN MONNIN: Nowhere in your
24 report do you provide an example of a regulatory body
25 doing so, correct?

1 MR. WILLIAM HARPER: That's correct.

2 MR. CHRISTIAN MONNIN: Okay. And you
3 -- you indicate that the cost of service on the one
4 (1) hand is still evolving, and also we touched upon
5 Bipole III and Keeyask has yet to come on-stream, and
6 that will have an impact.

7 Wouldn't it be prudent for this Board
8 not to back away from a well-established regulatory
9 principle of ninety-five (95) to a hundred and five
10 (105) until the cost of service methodology is done
11 evolving, and until Bipole and Keeyask has come on-
12 stream. Would you agree with that?

13 MR. WILLIAM HARPER: No, I think all -
14 - you could almost apply the opposite in logic, I
15 think.

16

17 (BRIEF PAUSE)

18

19 MR. CHRISTIAN MONNIN: Wouldn't you
20 agree that given that we're still waiting for Bipole
21 and Keeyask to come on stream that this Board ought to
22 rely upon the long-established regulatory principle of
23 a ninety-five (95) to hundred and five (105) as just
24 one (1) of the tools in its toolbox when it comes to
25 ratemaking, and not make a premature move to broaden

1 the scope of the -- of the zone of reasonableness?

2 MR. WILLIAM HARPER: I think I've
3 answered that question. And the answer is no.

4 MR. CHRISTIAN MONNIN: If you can go
5 to your report, page 81, please, Diana. And here we
6 have the revenue cost ratio under PCOSS18. And as I
7 mentioned earlier, I'm -- I'm legal counsel for
8 general service small and general service medium.
9 Even at you're suggestion of an interim broadening of
10 the zone of reasonableness from -- I believe it's
11 moving it to 110 percent on the higher echelon,
12 general service small non-demand are still outside of
13 that zone of reasonableness.

14 Do you agree with that?

15 MR. WILLIAM HARPER: I would agree
16 with that, yes.

17 MR. CHRISTIAN MONNIN: I'd like to ask
18 you a few questions about -- under the heading in your
19 report it's page 85, "Application to Manitoba Hydro's
20 Current Circumstances."

21

22 (BRIEF PAUSE)

23

24 MR. CHRISTIAN MONNIN: I appreciate
25 it's your report, but do you need time to -- to review

1 that before I ask you some questions?

2 MR. WILLIAM HARPER: Well, I guess it
3 depends on the particular question. Maybe -- maybe we
4 -- we -- and which part of the page you're looking at.
5 So maybe -- maybe it's just easier to proceed with the
6 question and we'll see.

7 MR. CHRISTIAN MONNIN: Sure. It's
8 really the first paragraph starting with "Manitoba
9 Hydro's application," and then ending with
10 "appropriate today."

11 MR. WILLIAM HARPER: So it's the
12 second paragraph in the section there?

13

14 (BRIEF PAUSE)

15

16 MR. CHRISTIAN MONNIN: It's the -- the
17 first paragraph, right after the title, "Application
18 of Manitoba Hydro."

19 MR. WILLIAM HARPER: Okay. Because
20 you said "appropriate today" and that was the second
21 paragraph. That was all that threw me off. Okay.

22 MR. CHRISTIAN MONNIN: So when you --
23 when you're done reading just let me know, please.

24 MR. WILLIAM HARPER: Okay. No, that's
25 -- that's fine. I -- I think -- I think I recall what

1 I said, yes.

2 MR. CHRISTIAN MONNIN: And so here you
3 note that -- it's -- it's your evidence here, Mr.
4 Harper, that the proposed increase of 7.9 percent is
5 already four (4) times the rate of inflation. I'm
6 just repeating what's there; correct?

7 And in that regard. You also state
8 that the higher customer class rate increase -- sorry,
9 the -- the higher customer class rate increases due to
10 interclass revenue adjustments would be even more
11 problematic.

12 MR. WILLIAM HARPER: Right. That --
13 that comes back to the issue of rate shock.

14 MR. CHRISTIAN MONNIN: Correct. And -
15 - and with regards to Manitoba Hydro's metric on
16 gradualism and stability, that is the annual
17 adjustments to revenue by customer class should be
18 less than 2 percent -- 2 percent points greater than
19 the overall proposed increases.

20 Your evidence here is that this is a
21 dated guideline?

22 MR. WILLIAM HARPER: Yes, I -- I think
23 the evidence here is the guideline was -- was
24 developed under a sort of a different era or within a
25 different context. When -- when we rate increases --

1 I think another one (1) of the guidelines of Manitoba
2 Hydro, if I can recall that time, was that rate
3 increases should be close inflation overall. So that
4 -- obviously it was a different era we were dealing
5 with then.

6 MR. CHRISTIAN MONNIN: And -- and you
7 question whether that metric is appropriate today, but
8 you don't provide a suggestion on what would be
9 appropriate; correct?

10 MR. WILLIAM HARPER: Well, I think
11 what -- what I was trying to say the same as in -- in
12 my direct is I don't think you can -- I don't think
13 you can say it should be -- you should have -- have a
14 limit for 2 percent for, say, inter-revenue
15 adjustments without looking at also what's the impact
16 of the GRA changes, what would be impact if I'm
17 making rate design changes on the residential or any
18 other particular customer class at the same point in
19 time. And you have to look at the total -- at the
20 total impact.

21 MR. CHRISTIAN MONNIN: So it's -- it's
22 it's fair to say that at the proposed rates of 7.9
23 percent, such an adjustment, in your position that's
24 not appropriate; correct?

25 MR. WILLIAM HARPER: Well, I don't

1 think it's totally inappropriate. I -- I think -- I
2 think what I'm suggesting here is that the Board has
3 to take a range of considerations into account. One
4 (1) -- well, if I -- say, your particular customer
5 class, for ex -- that you represent, for example, will
6 be the fact that their revenue to cost ratio right now
7 is -- is in excess of the zone of reasonableness even
8 at ninety (90) to a hundred and ten (110). That's one
9 (1) factor to be taken into account.

10 Another factor to be taken into account
11 is the size of the overall rate increase, and that's
12 what they have to weigh. They can't just apply this
13 rule blindly without looking at the other
14 considerations that are involved, one (1) of which, in
15 my mind, a major one (1), is what's the overall
16 average rate increase that's going to be approved in
17 this proceeding.

18 MR. CHRISTIAN MONNIN: And so if I
19 were to ask that same question, but rather than seven
20 (7) nine (9) -- the 7.9 percent, and inserted with the
21 3.95 percent, which is the previ -- previous rate
22 plan, would your answer still be the same?

23 MR. WILLIAM HARPER: Well, I think the
24 issue is, is that the weight you -- the weight in
25 those considerations that you would put to the

1 implications of the overall rate increase would be
2 less because their overall rate increase is less, yes.

3

4 (BRIEF PAUSE)

5

6 MR. CHRISTIAN MONNIN: And --

7 MR. WILLIAM HARPER: I mean, maybe
8 just to clarify. I don't think the Board has a black
9 box where it goes away and inputs a bunch of these
10 things and all of a sudden out -- out comes a
11 particular number. There is a -- that there is a --
12 you know, there's a number of considerations that have
13 to go into play and -- and be weighed to a certain
14 extent. And that -- that's what I was trying to
15 emphasize here. It's not a -- it's not a formulaic re
16 -- result at the end of the day. We add 2 percent
17 here 3 percent for rate design, and that gives us a
18 number.

19 MR. CHRISTIAN MONNIN: And -- and so
20 it would be safe to say that in certain circumstances,
21 subject to the discretion of this Board, an adjustment
22 between the classes would be acceptable.

23 MR. WILLIAM HARPER: You know, I -- I
24 think the Board has the discretion to decide what it
25 wants to assign in terms of what it considers to be

1 acceptable, yes.

2 MR. CHRISTIAN MONNIN: So if I were to
3 put to you that from your perspective these -- these
4 adjustments shouldn't happen at all, you wouldn't
5 agree with that?

6 MR. WILLIAM HARPER: No, I -- I -- you
7 know, if you were to put together they should never
8 happen under any circumstance, I would not agree with
9 that.

10 MR. CHRISTIAN MONNIN: And you've
11 indicated that -- and I think we've -- we've touched
12 upon this, that in addition to the cost of service the
13 Board can consider other compel -- other compelling
14 policy considerations and factors.

15 And would you agree with me that we
16 touched upon, or you touched upon that, but the
17 Bonbright principles are some of the factors that this
18 Board can consider?

19 MR. WILLIAM HARPER: Well, I think we
20 have to parse two (2) things down. You are talking
21 about other broader public policy considerations,
22 which I think is -- I would interpret as maybe one (1)
23 element of Bonbright's criteria which even go beyond
24 that in a sense of look -- I guess -- I'm not sure
25 whether it's beyond that, because public interest and

1 public policy can include whatever you want to
2 include.

3 But, you know, his issues about rate
4 stability, un -- understandability, efficiency, I
5 mean, one can decide whether one wants to capture all
6 that under -- under the gambit of public policy or
7 public interest or not. But I think I would want to
8 make sure they aren't forgotten in the process.

9 MR. CHRISTIAN MONNIN: Okay. And one
10 (1) of the main points that you raised that the Board
11 ought to keep in mind is -- is public accept --
12 acceptability of the rate increases; correct?

13 MR. WILLIAM HARPER: Yes.

14 MR. CHRISTIAN MONNIN: And would you
15 agree with me that the impacts or the potential
16 impacts that proposed rate increases may have on the
17 economy form part of public acceptability?

18 MR. WILLIAM HARPER: Yes, I would
19 agree with that.

20 MR. CHRISTIAN MONNIN: Thank you. No
21 further questions.

22 THE CHAIRPERSON: Thank you. Does the
23 panel have any questions?

24

25 (BRIEF PAUSE)

1 BOARD MEMBER GRANT: I had a -- a few
2 questions, usually preceded by a long rambling.

3 MR. WILLIAM HARPER: I -- I'm -- I'm
4 sorry, either I wasn't...

5 BOARD MEMBER GRANT: Okay. Sorry.
6 No, I was just -- never mind. I -- I wanted to ask
7 you about cost of service, just to give you a chance,
8 because you must have rare opportunities to actually
9 meet people on the street to talk about this stuff.

10 MR. WILLIAM HARPER: Well -- well, I
11 must admit my wife is never able to explain to people
12 what I do for a living.

13 BOARD MEMBER GRANT: She must be happy
14 to see you come home from a cost of service hearing to
15 talk about your day. Can I just talk about rate
16 design a bit, because when you -- I take your point
17 about the Chernick proposal not being road ready. But
18 I really have to appreciate the fact that he put some
19 numbers out there with a model. And the only way I
20 see this sort of going forward is someone, you know,
21 gets the discussion started and we can tinker and play
22 with and criticize that.

23 MR. WILLIAM HARPER: I agree with you
24 a hundred percent there.

25 BOARD MEMBER GRANT: Would I be

1 correct that -- so I am leading up to a question. I
2 think part of the issue in the Chernick model, if you
3 think of some of the Coalition's clients, say you are
4 a natural gas heater in a nice suburban area of
5 Winnipeg. You'd be looking at potentially a large
6 across-the-board rate increase. Then you might get
7 dinged with a subsidy for low income. You might get
8 dinged with a subsidy to all electric. You're
9 already, I guess, paying a subsidy for uniform rates.

10 And -- and then in theory, with the
11 revenue cost zone of reasonableness issue, you -- you
12 could get sort of dinged again when you're not really,
13 you know, driving those costs. And so is there one
14 (1) -- so one (1) thing that I didn't quite appreciate
15 at the time of the cost of service hearings, is there
16 a clear criteria for different rate classes?

17 So should the Coalition see some
18 separatist movement right where you get such widely
19 different revenue cost requirements within a rate
20 class? Is -- is there any clear model for, you know,
21 setting up customer classes?

22 MR. WILLIAM HARPER: I -- I guess, you
23 know, there -- there are two (2) questions there. One
24 (1) is really the -- I guess you could say the sort of
25 rate-making type question of how -- how do you set up

1 customer classes. And the second one (1) is, is it
2 always possible for one (1) particular entity to
3 represent all the customers in that class once you've
4 set it up. You know, or -- or are there disinterest
5 there such that they have to spin off.

6 And I think -- you know, I think the
7 whole idea of setting up customer classes is that, you
8 know, at the end of the day no two (2) customers are
9 the same. But you sure as heck don't want a customer
10 class for every single customer in the province, and
11 there has to be some averaging and some -- some
12 aggregating of customers. And -- you know, and -- and
13 utilities have typically done this with all
14 residential customers, all large industrial customers.

15 I can tell you from experience when it
16 -- and I'll use the industrial class as an example.
17 Industrial customers tend to be fairly high load
18 factor customers. They all are high load factor
19 customers. And there was a group -- there was -- they
20 were represented before the Ontario Energy Board by a
21 group called AMCO that represented them.

22 There was a small segment of that that
23 were electric furnace customers. They are -- they are
24 fairly low load factor customers. The furnace comes
25 on, it whips up, and it runs for a short period of

1 time at a high peak demand, and then it's off for a
2 while. They basically found that the AMCO
3 representation, being a part of the group, wasn't
4 representing their interests. And they actually ended
5 up intervening separately in the proceeding be --
6 because of that.

7 So I take your point that no one (1)
8 Intervenor -- one (1) Intervenor may not represent all
9 the interests in that class, and people participating
10 in that class have to be mindful of that in making
11 sure they're being appropriate represented.

12 BOARD MEMBER GRANT: But -- so -- so -
13 - where is -- you know, I was aware of the revenue
14 cost guesses for all electric versus non-electric.

15 MR. WILLIAM HARPER: Yes.

16 BOARD MEMBER GRANT: And so what's the
17 threshold when you start to see those departing that
18 widely? I mean, I guess there's no -- Bonbright
19 didn't write anything down on that.

20 MR. WILLIAM HARPER: There -- there's
21 no -- you know, I -- I mean you -- you could -- one
22 (1) threshold you could do is you could apply the same
23 zone of reasonableness test you apply to cost of
24 service methodologies overall. And if electric heat
25 is one-o-three (103) and the other -- you know, if

1 you're using ninety-five (95), one-o-five (105), the
2 electric heat is -- is one-o-three (103) I think.
3 Excuse me. The non-electric heat is one-o-three
4 (103). The other one (1), I think, is down close to
5 ninety (90) if I recall. So you would say maybe we're
6 outside of the bounds there and there is a problem
7 there.

8 I'll often -- to be quite honest with
9 you, when people are talking about looking -- taking a
10 class and breaking it up and setting up different
11 customer classes, they'll do exactly that sort of
12 analysis, look at what's the cost of service study if
13 I separate them out. And do I get materially
14 different revenue to cost ratios? And if I do that
15 would be one (1) of the drivers and one (1) of the
16 rationale for actually setting up a separate class.

17 BOARD MEMBER GRANT: Switching gears,
18 this is a little bit self-serving. I just want to
19 show that I read your report. So I want to ask you
20 about footnote 204, which is -- you provide a
21 definition of marg --

22 MR. WILLIAM HARPER: Well, luckily I'm
23 on that page, but...

24 BOARD MEMBER GRANT: You have a
25 definition of marginal cost there. And I -- and I

1 take -- I think I take your point to be marginal cost
2 really only has a role -- it doesn't have as much of a
3 role in allocating cost today as much as a planning
4 purpose to look at increments to capacity. Because I
5 -- you know, I struggle with the issue of essentially,
6 what's an average cost framework, and then trying to
7 inject these sort of -- what we think a better price
8 incentive signals into a system.

9 MR. WILLIAM HARPER: Yes.

10 BOARD MEMBER GRANT: So -- but is that
11 -- do you want to just elaborate on that, because --

12 MR. WILLIAM HARPER: No, I -- I think
13 that's a fair comment that I think is, you know -- and
14 if you think about it when you were -- when we were in
15 the NFAT we were focusing mainly on the economic
16 analysis. I mean, we looked at the financial
17 analysis, but the economic analysis was the main
18 framework in which to make your decisions.

19 And as to the economic analysis, where
20 you're looking at what's the -- I'd say that's more of
21 a efficiency marginal -- it isn't really marg -- but -
22 - but it's sort of more -- attuned to or akin with
23 marginal cost. So I -- I think you're right. I think
24 from -- from a planning perspective that -- that's
25 where you want to look when it comes to sort of the

1 GRA rate-making process, you know, I guess.

2 And maybe -- maybe that's why there's a
3 -- maybe that's why it's useful to make a distinction
4 between cost of service methodology and rate-making,
5 because since you are using an embedded cost approach,
6 trying to mirror those -- when you're allocating
7 embedded costs or accounting costs it be -- becomes
8 awkward. And I think people often think of marginal
9 cost as maybe coming more to play as an input in the
10 rate design process.

11 And I think even there it's probably --
12 its weight as an input probably depends upon where a
13 utility is in its overall plan -- planning cycle and
14 development. If you're getting close to needing new
15 supply, and you're concerned about new supply, you
16 know, sort of the economic implications of building a
17 supply, then perhaps incorporating marginal costs into
18 your rate design becomes much more important than if
19 you're sort of at another period of time in your
20 development.

21 To be quite frank with you, I've seen
22 utilities that they've come forward with one (1)
23 proposal, putting a priority on various rate-making
24 objectives. And maybe five (5) years later come
25 forward with another proposal and the priority has

1 slightly changed because their circumstances changed.

2 BOARD MEMBER GRANT: Okay. And so
3 just the last question/comment, because we look to
4 people from Ontario as guides to the future of
5 Manitoba --

6 MR. WILLIAM HARPER: Well, I wouldn't
7 do that.

8 BOARD MEMBER GRANT: But you had a bit
9 of a taste of higher rates for electricity. And I
10 guess I'm wondering is some of the difference between,
11 say, GAC's presentation and yours is it -- is part of
12 it just how important these price incentives are? Is
13 -- is -- or is that --

14 MR. WILLIAM HARPER: Well, I'm not
15 sure if it's how important the price incentives are.
16 It's how important it is -- in my mind, it -- and this
17 is where it comes back to the road ready issue in
18 terms of when you're setting up processes and rates
19 that are going to be basically affecting everybody in
20 -- in the province, whether it be from those who have
21 to pay or from those who are actually going to be put
22 on a new rate design or have to apply for new rate. I
23 think you want to make sure that it is road ready and
24 you aren't going to run off the rails right away. Be
25 -- you have to think -- think it through before you

1 implement it. I think that's the issue.

2 BOARD MEMBER GRANT: So in that sense
3 you really -- just get this right, is it's you'd go
4 off the rails because you haven't struck the right
5 balance between fairness and incentive? Or --

6 MR. WILLIAM HARPER: Or -- or, you
7 know, or you haven't -- haven't -- you haven't --
8 there could be an number -- number of ways you go off
9 the rails. Maybe, one (1), you -- you don't quite
10 appreciate -- as you said, you add all those little
11 pieces together and all of a sudden other customers
12 who are out there are paying what they all consider
13 far more than appropriate, given what they're paying
14 for. And you get a real backlash from -- from that
15 perspective.

16 Or you try to implement it and you
17 haven't worked it through far enough so that people
18 are applying, but they can't -- but -- but the
19 implementation and the verification process just can't
20 manage that -- that the volume and, therefore, they
21 don't get accepted or -- or on the program as quickly
22 as they think -- think is reasonable. So there's a
23 number of ways things go off the -- might go off the
24 rails.

25 BOARD MEMBER GRANT: Thanks very much.

1 THE CHAIRPERSON: Mr. Harper, Mr.
2 Monnin's last question related to public acceptability
3 of rate increases. And -- and I believe you agreed
4 with that.

5 Is the public acceptability a
6 consideration for rate increases or for rate
7 structure?

8 MR. WILLIAM HARPER: I think it's both
9 actually.

10 THE CHAIRPERSON: Okay. Because as I
11 read Bonbright, which I just happen to have here.
12 Everybody keeps quoting him. I thought I'd read him.
13 The paragraphs actually -- the -- the -- sorry. The
14 chapter is actually called "Criteria of a sound rate
15 structure." And the sentence says -- and I'm just
16 sort of paraphrasing it. A number of writers have
17 summarized their answers in the form of a list of
18 desirable attributes of a rate structure.

19 And then he goes through eight (8) --
20 he says -- he -- he gives eight (8) items in no
21 particular sequence. And one (1) of them is the
22 related practical attributes of simplicity,
23 understandability, public acceptability, and
24 feasibility of application.

25 If it is a -- if -- if public

1 acceptability of rate increases is the factor, and the
2 Board decided to order a larger increase for which the
3 public may not find acceptable, how -- I'm -- I'm
4 really having a problem understanding this. This
5 Board actually in earlier times ordered rate increases
6 higher than were -- were requested.

7 MR. WILLIAM HARPER: Right.

8 THE CHAIRPERSON: I assume at the time
9 the public may not -- may or may not have found those
10 to be acceptable. It had to do with drought.

11 Is -- is that something we should be --

12 MR. WILLIAM HARPER: Well -- well --

13 THE CHAIRPERSON: -- we should be
14 looking at?

15 MR. WILLIAM HARPER: And -- and I
16 think that goes back to -- if you look at my last
17 slide in my presentation and the last bullet on the
18 last slide in my presentation. I think that speaks
19 precisely to that point. And that is that I think
20 everybody in Manitoba understands drought and
21 understands drought has a -- is going to have -- have
22 an impact on their rates.

23 If -- if the perception was that rates
24 were going up because Manitoba Hydro's executive were
25 all getting a 30 percent increase in pay it might --

1 it might -- there might've been a different reaction
2 of the front page of the -- whatever the Winnipeg
3 newspaper is as -- as to -- as to what -- what was the
4 acceptability of the increase. So, you know, and I
5 think we don't have to -- have to lose sight of the
6 fact that, you know, that amongst those -- those
7 objectives of Bonbright is the adequacy of the revenue
8 requirement, which clearly speaks to -- to level, not
9 just to structure.

10 You know, and so I think that -- that's
11 something obviously the Board has to take into account
12 as well which is why, in circumstances such as drought
13 and looking forward, you know, it -- it may well be
14 more -- more appropriate to order rate increases that
15 are larger than what -- what the particular utility
16 has asked for.

17 THE CHAIRPERSON: Okay.

18 MR. WILLIAM HARPER: So I think it has
19 to do a lot with -- with the perceived reason for the
20 increase. High rate increases are not -- if I'm being
21 served by a fossil fuel based utility that's got oil -
22 - mainly oil generation, and international oil prices
23 are moving around, I can understand why my utility may
24 be looking for higher rate increases. I mightn't like
25 it, but it's much more easier to understand and accept

1 those -- in such a situation.

2 THE CHAIRPERSON: You -- you could
3 look at all of those factors. How would the Board
4 determine if a rate increase is publicly acceptable?

5 MR. WILLIAM HARPER: Well, I -- I
6 think, one (1), it's to a large extent based on what -
7 - you know, it's wing of those. It -- it's what
8 you're hearing -- it's what you're hearing during the
9 course of the proceeding that you're holding right
10 now. It's what you see in terms of the letters that
11 you're getting from -- from various parties.

12 I think, you know -- I guess the last
13 thing at the end of the day is you -- you all are a
14 cross-section and representation of Manitobans, to be
15 honest with you and can -- and can apply that -- that
16 as well within the context of your decision-making.

17 THE CHAIRPERSON: Okay. So you would
18 see it as input prior to making the decisions?

19 MR. WILLIAM HARPER: Yes.

20 THE CHAIRPERSON: Okay. Thank you
21 very much, sir. We'll -- we'll adjourn until -- we'll
22 adjourn for an hour. We'll start at ten (10) to 1:00.
23 Thank you.

24

25 --- Upon recessing at 11:52 a.m.

1 --- Upon resuming at 1:02 p.m.

2

3 THE CHAIRPERSON: Okay, if we could --
4 we could resume. M. Hacault...?

5

6 CROSS-EXAMINATION BY MR. ANTOINE HACAULT:

7 MR. ANTOINE HACAULT: Thank you, Mr.
8 Chair and members of the Panel. Good afternoon, Mr.
9 Harper, good to see again.

10 MR. WILLIAM HARPER: Good afternoon.

11 MR. ANTOINE HACAULT: I'm going to
12 start with some questions which are a follow-up on a
13 question by Vice Chair Kapitany this morning. It
14 related to your slide 21. Perhaps we can go to your
15 slide 21 to remind ourselves what the question related
16 to.

17 It related to ineligible overheads and
18 a depreciation difference in methodology. Do you
19 recall that discussion?

20 MR. WILLIAM HARPER: Yes, I do.

21 MR. ANTOINE HACAULT: Okay. And to --
22 the question was asked whether or not you specifically
23 had looked at the impacts of -- following what's
24 referred to as the ESC recommendation.

25 And -- and to your defence, I guess,

1 you haven't been here to see all the undertakings and
2 all the runs that have been done since this hearing
3 has begun; that's correct?

4 MR. WILLIAM HARPER: I haven't been
5 here. I'm been trying to keep up with them, but I
6 probably haven't managed do as well as I should.

7 MR. ANTOINE HACAULT: So if we go to
8 Manitoba Hydro Exhibit 93, 9-3. This is a document
9 that was produced by Manitoba Hydro. And if we look
10 at number 2 in that requested undertaking, there is a
11 run that follows which deals with the following issues
12 or assumptions.

13 Firstly in 2(a) we start with the IFF16
14 update with interim assumptions, except where noted.

15 Are you following me so far?

16 MR. WILLIAM HARPER: Yes.

17 MR. ANTOINE HACAULT: So Manitoba
18 Hydro ran a scenario where there would be a twelve
19 (12) year WATM. You're following that?

20 MR. WILLIAM HARPER: Yeah, I -- I
21 thought that was what was actually embedded in IFF16
22 to begin with this so.

23 MR. ANTOINE HACAULT: Yes. And here
24 is where we deal with your recommendation, sir, as I
25 understand it: overhead accruals of 20 million

1 continue throughout amortized at a thirty (30) year
2 rate.

3 That's your recommendation, correct?

4 MR. WILLIAM HARPER: Yes, it is.

5 MR. ANTOINE HACAULT: And then 2(d),
6 depreciation at ASL for average service life
7 throughout; no amortization of difference with ELG
8 which is equal life group method.

9 That's your recommendation, sir?

10 MR. WILLIAM HARPER: Not precisely.

11 My recommendation was based on an expectation that the
12 Board would come back per the Board's directive and we
13 would have a -- have a conversation about which rate
14 setting methodology should be used for -- excuse me,
15 which depreciation methodology should be used for rate
16 setting purposes.

17 And at that point in time, depending
18 upon that -- that decision, you know, at -- in
19 conjunction with that, you'd have to make decisions
20 that were consistent with that about what you were
21 going to do with this deferral account going forward.
22 Whether you needed a deferral account. If you did,
23 how you were going to amortize.

24 But my recommendation was that until we
25 sort out that particular understanding of where we're

1 going to go in the long term, we -- which hopefully
2 won't take very long to do, we -- we -- we should
3 really put on hold. So I think it's no amortization
4 of the difference over a short-term which, hopefully,
5 isn't more than a couple of years. And then after
6 that it depends, I guess, is the best I can say.

7 MR. ANTOINE HACAULT: Okay. But would
8 you agree with me, sir, that the Board direction is
9 that we continue to use average service life method
10 until we come back and deal with that issue?

11 MR. WILLIAM HARPER: Yes, I do.

12 MR. ANTOINE HACAULT: Okay. And then
13 we can see the other assumptions, rate increases
14 necessarily -- consistent with the approach used by a
15 coalition request that means annual -- equal annual
16 increases to reach a target of 75/25 by the year
17 2035/'36.

18 Do you see that?

19 MR. WILLIAM HARPER: Yes, I do.

20 MR. ANTOINE HACAULT: Okay. Now,
21 these runs don't deal with the whole issue of how
22 Manitoba Hydro has changed its approach to valuing its
23 surplus dependable energy, correct?

24 MR. WILLIAM HARPER: No, there's --
25 there's nothing in here about changing the way they --

1 making any changes from the way they're currently
2 proposing that their export prices should be based on
3 and what sort of assumptions about capacity value that
4 should include.

5 MR. ANTOINE HACAULT: And I don't
6 intend to take you through it again, but we saw that
7 visually when we were dealing with Daymark Export
8 reports and testimony where we saw visually when the
9 Northern Sales Power agreement ended in 2025, all of
10 that capacity and energy was assumed to be put in the
11 opportunity market at low prices?

12 MR. WILLIAM HARPER: I haven't seen
13 the specific slide, but -- but -- but I understand
14 that that treatment would be consistent with -- with
15 Manitoba Hydro's treatment of export pricing in
16 general in the IFF.

17 MR. ANTOINE HACAULT: And if we go to
18 the next page. I want to have a discussion on
19 depreciation, generally. For example, irrespective of
20 the depreciation method if we use a straight-line
21 method and we have a thirty (30) year life.

22 Are you following me so far?

23 MR. WILLIAM HARPER: Yes. We have a
24 straight line method and a thirty (30) year life
25 for...?

1 MR. ANTOINE HACAULT: For a particular
2 asset.

3 MR. WILLIAM HARPER: Oh, for an asset,
4 that is thirty (30) years.

5 MR. ANTOINE HACAULT: Yes.

6 MR. WILLIAM HARPER: And it has an
7 expected thirty (30) year life, yes.

8 MR. ANTOINE HACAULT: So that asset,
9 irrespective of the method, by the end of that thirty
10 (30) year life will have been fully depreciated,
11 correct?

12 MR. WILLIAM HARPER: Correct.

13 MR. ANTOINE HACAULT: So the
14 discussion that we've had, and I put everybody to
15 sleep on ELG and ASL, was whether one (1) method was
16 more aggressive than the other at the front-end of the
17 depreciation cycle. That was the nature of the
18 discussion.

19 Do you recall that?

20 MR. WILLIAM HARPER: Yes, it was and I
21 think that was the issue that the Board wanted more
22 information on, actually, I believe.

23 MR. ANTOINE HACAULT: But would you
24 agree with me that at the end in my example of an
25 asset that's expected to be a -- have a thirty (30)

1 year life, if you use a thirty (30) year life table,
2 whatever differences there might be in the methods at
3 the beginning will correct themselves by the end of
4 the thirty (30) year life because in both methods you
5 depreciate the asset fully at the end of the thirty
6 (30) years?

7 MR. WILLIAM HARPER: Yes, I would. At
8 the end of the thirty (30) years, the value is zero in
9 both cases.

10 MR. ANTOINE HACAULT: Now, sir, what
11 I'd like to take you to -- through now and it
12 corresponds in large extent to some of the tables that
13 you have is the last page of this exhibit, again,
14 produced by Manitoba Hydro which is a summary of
15 different integrated financial forecast runs with
16 certain headings and metrics that are looked at in
17 comparing to each different run.

18 The first thing if we look at the
19 bottom left-hand corner which indicates MIPUG scenario
20 December 21, 2017, is we see that the run results in
21 even annual consecutive increases of 3.57 percent to
22 achieve a 75/25 deb/equity ratio by the end of
23 2035/2036.

24 Do you see that?

25 MR. WILLIAM HARPER: Yes, I do.

1 MR. ANTOINE HACAULT: So that's
2 different than the run that you used which is quoted
3 immediately above and was quoted in your paper which
4 resulted in a 4.34 percent average annual increase to
5 bring the 75/25 debt ratio by 2033/2034.

6 MR. WILLIAM HARPER: Yes, there's
7 different assumptions used in each of the two (2)
8 runs.

9 MR. ANTOINE HACAULT: And we've gone
10 through those assumptions?

11 MR. WILLIAM HARPER: Well, probably
12 not. Well, probably not all of them directly. I
13 think the other major one that's missing off the last
14 row, and to be fair, is that I believe the last row is
15 based on the twelve (12) year WATM as supposed to the
16 twenty (20) year WATM. And a twenty (20) WATM would
17 narrow the difference. I anticipate would narrow the
18 different between the two (2) scenarios.

19 MR. ANTOINE HACAULT: Yes, assuming
20 the Company would follow the different weighted
21 average --

22 MR. WILLIAM HARPER: -- maturity, I
23 apologize --

24 MR. ANTOINE HACAULT: -- on to
25 maturity.

1 Now, the one (1) thing that you didn't
2 have in your charts was the maximum long-term debt
3 between all of the scenarios that you considered?

4 MR. WILLIAM HARPER: That's correct.

5 MR. ANTOINE HACAULT: And this table
6 gives us the results of those different runs on that
7 metric if one were concerned about a long-term debt
8 issue?

9 MR. WILLIAM HARPER: Yes.

10 MR. ANTOINE HACAULT: So that if we
11 look at the -- on the left-hand side, Manitoba Hydro
12 14 IFF run gave us a maximum long-term debt of some
13 \$24.5 billion approximately; correct?

14 MR. WILLIAM HARPER: Yes, I'm sorry.

15 MR. ANTOINE HACAULT: You see that on
16 the table?

17 MR. WILLIAM HARPER: Yes, I do.

18 MR. ANTOINE HACAULT: And if we go to
19 the extreme right-hand side, we see a maximum net debt
20 for that MH-14 at 23.2 billion approximately?

21 MR. WILLIAM HARPER: Maximum net debt,
22 yes.

23 MR. ANTOINE HACAULT: And we see
24 retained earnings at -- as at 2033/'34 of some \$5.5
25 billion for that MH-14 run?

1 MR. WILLIAM HARPER: Yes.

2 MR. ANTOINE HACAULT: Now, with that
3 caveat that you put that the last run by Manitoba
4 Hydro being entitled MIPUG scenario, with the lower
5 rate increase at 3.57 in equal annual increments, we
6 see that that results compared to Manitoba Hydro 14 at
7 a debt about \$1 billion higher. The maximum long-term
8 debt is now \$25.5 billion approximately.

9 MR. WILLIAM HARPER: Yes, it's a
10 little over a billion dollars more.

11 MR. ANTOINE HACAULT: And we see that
12 the minimum equity, if we go and compare those two,
13 between the MH-14 run and this last scenario, even at
14 3.57 percent equal rate increases, our debt-to-equity
15 ratio doesn't go down quite as much, does it, sir?

16 MR. WILLIAM HARPER: No, it doesn't.

17 MR. ANTOINE HACAULT: Manitoba Hydro
18 14 run shows it would go down to 10 percent versus the
19 last run with the lower rate increases. It's not much
20 different, but it -- it doesn't go down quite that
21 far. It goes down to 12 percent, correct?

22 MR. WILLIAM HARPER: Yes.

23 MR. ANTOINE HACAULT: And let's
24 compare the negative net income for the Manitoba Hydro
25 14. MR. WILLIAM HAIGHT: see that we were

1 projecting in that IFF some \$977 million of negative
2 net income in eight (8) years?

3 MR. WILLIAM HARPER: Yes.

4 MR. ANTOINE HACAULT: Versus with the
5 lower rate scenario of three point five-seven (3.57),
6 we see a total negative net income at the bottom under
7 that column of \$418 million during six (6) years?

8 MR. WILLIAM HARPER: Right.

9 MR. ANTOINE HACAULT: And finally, if
10 we look at the retained earnings and compare Manitoba
11 Hydro 14 to the MIPUG scenario, we see that the lower
12 rate increases at three point five-seven (3.57) result
13 in about \$5 billion of retained earnings instead of
14 the \$5.57 million -- billion in retained earnings?

15 MR. WILLIAM HARPER: Yes.

16 MR. ANTOINE HACAULT: Sir, does this
17 change your opinion in any way as to whether or not
18 with those two (2) adjustments on operating expenses
19 and depreciation -- and there is the twelve (12) year
20 -- and twenty (20) year WATM.

21 Does it change your opinion at all that
22 there isn't really a significant difference between
23 prior projections, and even the MIPUG scenario, which
24 has been run as of December 21?

25 MR. WILLIAM HARPER: Well, I think the

1 MIPUG scenario builds in a lot more differences
2 between IFF16. You know, there -- there's a lot more
3 differences buil -- built in here than -- than in the
4 particular scenario I was looking at. So I'm not too
5 sure whether it's -- and again, it's -- it's not the
6 way Manitoba Hydro would -- would be looking at --
7 would -- would be looking at -- would have been
8 looking at the future. And so I don't think it
9 changes my -- my conclusions at all, no.

10 MR. ANTOINE HACAULT: Okay. Thank
11 you. I'll bring you back to your numbers, and to be
12 able to understand exactly what's included or excluded
13 in your assumptions. I'll take you to the Morrison
14 Park Associates presentation at pages 44 and 45.

15

16 (BRIEF PAUSE)

17

18 DR. BYRON WILLIAMS: Mr. Hacault, this
19 is just from the exhibit from yesterday from Morrison
20 Park?

21 MR. ANTOINE HACAULT: That's correct.

22 DR. BYRON WILLIAMS: Just for clarifi
23 -- thank you.

24

25 CONTINUED BY MR. ANTOINE HACAULT:

1 MR. ANTOINE HACAULT: Yes, Coalition
2 Exhibit 45, for the record.

3 Sir, in the IFF runs that Manitoba
4 Hydro does, do you know at all of whether or not for
5 years 2 and following in the twenty (20) year IFF,
6 whether they use the mean flow cases or median flow
7 cases?

8

9 (BRIEF PAUSE)

10

11 MR. WILLIAM HARPER: It wasn't clear,
12 in my view, that they actually used either. My
13 understanding that may be totally incor -- incorrect,
14 is what they did was they looked at the financial
15 implications of each of these flow cases and then
16 averaged the financial applications as opposed to
17 using the average flow and then inputting that in the
18 model as -- as one (1).

19 So -- and I don't think the approach I
20 -- I understand they used, which is you basically do -
21 - if -- if there's a hundred bars here, a hundred
22 different financial projections, and then average them
23 would give you the same result as if you plugged the
24 mean hydraulic situation into the financial model and
25 just ran it once. So I don't think they used either.

1 At least, that's my understanding of the approach they
2 used.

3 MR. ANTOINE HACAULT: Okay. And you
4 weren't here, then, sir, for the example I -- I took
5 Daymark through, where the IFF, in a particular year,
6 led to \$40 million less than the P50 number, which was
7 the median flow?

8 MR. WILLIAM HARPER: No, I wasn't
9 here.

10 MR. ANTOINE HACAULT: Okay. So I -- I
11 won't go further than that. But if the IFF in my
12 example used with Daymark is based on a number that's
13 \$40 million lower for export revenue than the P50,
14 that's something which you are assuming is to be taken
15 and not to be challenged?

16 MR. WILLIAM HARPER: Yes, I -- I
17 accept that Manitoba Hydro's forecast, as presented,
18 and so -- and obviously, there are a number of areas
19 where they should be tested, and are being tested
20 during this process, and obviously, that's one (1)
21 that you've -- you've pursued.

22 MR. ANTOINE HACAULT: Okay. Now,
23 another area in which your calculations assume -- are
24 being tested by others is the way export sales are
25 dealt with in the new integrated financial forecast,

1 correct?

2 MR. WILLIAM HARPER: Yes. I think I
3 particularly highlighted that in my presentation this
4 morning.

5 MR. ANTOINE HACAULT: And to
6 understand that point, we had the Daymark report on
7 exports. They had slides 48, 49, and 50, which gave
8 us some insight on whether that was something that had
9 a negative or a positive impact on the results, cor --
10 is that fair?

11 MR. WILLIAM HARPER: I don't have the
12 slides in front of me, so I'm not too sure. I -- I
13 can answer your particular question at that -- right
14 now.

15 MR. ANTOINE HACAULT: So at slide 48,
16 first, there's a couple things on this slide. At the
17 year 2021, that's when we see Keeyask coming into
18 effect --

19 MR. WILLIAM HARPER: Right.

20 MR. ANTOINE HACAULT: -- and we see a
21 bulge in the export revenues, correct?

22 MR. WILLIAM HARPER: Right.

23 MR. ANTOINE HACAULT: And then we've
24 discussed in 2025, we see a fairly sharp drop in
25 export revenues. Do you see that?

1 MR. WILLIAM HARPER: Yes, I do.

2 MR. ANTOINE HACAULT: And we've had a
3 discussion that that's the end of the Northern States
4 Power sale where the revenues go down to opportunity
5 prices?

6 MR. WILLIAM HARPER: I would assume
7 that's one (1) of the contributing factors. Whether
8 it's the whole reason or not, I don't know.

9 MR. ANTOINE HACAULT: Okay. And --
10 and if we go to slide 49, we see this happening on
11 revenues with -- I'm going to call it some whiskers on
12 probabilities. Do you see that sharp drop again --

13 MR. WILLIAM HARPER: I see.

14 MR. ANTOINE HACAULT: -- in 2025? And
15 then if we go to slide 50, we have Daymark's view on
16 whether or not the forecast is conservative. Do you
17 see that?

18 MR. WILLIAM HARPER: Yes, I do.

19 MR. ANTOINE HACAULT: And a fit -- and
20 ener -- energy market price forecast is conservative.
21 If we would accept that evidence, that would mean that
22 the revenues after 2025 would be understated, correct?

23 MR. WILLIAM HARPER: The export
24 revenues would be understated, correct.

25 MR. ANTOINE HACAULT: And that would

1 have an impact on a host of different things such as
2 the maximum debt, retained earnings, et cetera?

3 MR. WILLIAM HARPER: Yes.

4 MR. ANTOINE HACAULT: Okay. Now,
5 we've dealt with, at the start of this cross-
6 examination, an area where the integrated financial
7 forecasts don't deal with overheads or depreciation in
8 accordance with the PUB directives. And that could be
9 another factor which would affect how the financial
10 forecasts are portrayed, correct?

11 MR. WILLIAM HARPER: It would affect
12 some of the parameters in the financial forecasts more
13 -- more than others. It -- it would affect the net
14 income. It probably wouldn't -- it would -- would
15 have -- I don't think it would have virtually any
16 effect on the capital coverage metric, but on some of
17 the other metrics like debt ratio, it would have an
18 effect, yes.

19 MR. ANTOINE HACAULT: Okay. And
20 another thing which the IFFs assume is that there's no
21 opportunity to modify spending in the area of demand-
22 side management, correct?

23 MR. WILLIAM HARPER: Well, they use
24 one (1) specific DSM forecast, you know, and -- and
25 then they assume that DSM fore -- forecast throughout,

1 and they assume the same forecast. I'm not too sure
2 what you mean by "opportunity." If -- if there was a
3 -- you could input a different DSM spending forecast,
4 and you could come up with a different result.

5 MR. ANTOINE HACAULT: Yes. So perhaps
6 you weren't there, but we've, earlier on in the
7 hearing, gone through some slides of Boston Consulting
8 Group, which suggested there might be some opportunity
9 to lower DSM spending, which would have a
10 corresponding impact on retained earnings and other
11 metrics?

12 MR. WILLIAM HARPER: Yes. If you're -
13 - lower -- lower the spending, it would -- it would
14 have an impact on the financial metrics, yes.

15 MR. ANTOINE HACAULT: And as you've
16 said, there's others that have spoken to that, and
17 whether that was -- the continued higher spending was
18 an optimal issue or not.

19 Another option which also would have an
20 impact on the IFF would be a subject that we're going
21 to start to get into is priority and planning of
22 capital spending. There might be some efficiencies
23 which can be gained there, correct?

24 MR. WILLIAM HARPER: I -- I would say
25 priority -- priority and rationalization, yes.

1 MR. ANTOINE HACAULT: And your
2 assumptions assume that there is zero efficiency that
3 can be obtained there?

4 MR. WILLIAM HARPER: Well, my
5 assumptions accepted the financial forecast that
6 Manitoba Hyd -- Hydro had -- had presented, which --
7 which basically was based on its underlying capital
8 expenditure forecast.

9 MR. ANTOINE HACAULT: Thank you. Now,
10 I'd like to change the subject to discuss a bit your
11 slides 34 and 36. Those are the slides which discuss
12 the electric heat and the low income rate initiatives.
13 And, sir, I heard some of the discussion on public
14 access -- acceptability.

15 Are you suggesting that because there's
16 over five hundred thousand dollars (\$500,000) -- or
17 five hundred thousand (500,000) individual domestic
18 ratepayers, that each of those should get a vote, and
19 clients might -- like mine, who are big power users,
20 only get ten (10) votes because they're ten (10)
21 companies?

22 MR. WILLIAM HARPER: No, I -- I don't
23 think it's as simp -- I don't think it's as simple as
24 -- I don't think it's as simple as that.

25 MR. ANTOINE HACAULT: Okay. If we can

1 go to MIPUG-13, that's Mr. Bowman's evidence at page
2 7-13 -- 7-13, please, Ms. Villegas.

3 We've seen this graph before, and it
4 ill -- illustrates in part some of the questioning
5 that Mr. Monnin took you through, that if we look at
6 peak costs in '96, on the bottom, and the numbers are
7 pretty small, we see that's when the Public Utility
8 Board changed the zone of reasonableness to ninety-
9 five (95) up to one-o-five (105), correct?

10 MR. WILLIAM HARPER: That's correct.

11 MR. ANTOINE HACAULT: Do you see that
12 in the --

13 MR. WILLIAM HARPER: Yes, I see.

14 MR. ANTOINE HACAULT: -- dark, bold
15 line? And except for in 2003, this Board didn't give
16 the larger industrials a differentiated rate increase?
17 It was a uniform rate increase.

18 Is that consistent with your memory?

19 MR. WILLIAM HARPER: I'll take that --
20 I'll accept that --

21 MR. ANTOINE HACAULT: Okay.

22 MR. WILLIAM HARPER: -- for now.

23 MR. ANTOINE HACAULT: And will you
24 also accept that this visually shows us that the
25 general service large over 100 kV and the general

1 service large 30 to 100 kV were, by and large, over
2 whatever zone of reasonableness was set by the PUB
3 during this time frame shown on the graph?

4 MR. WILLIAM HARPER: Yes. I
5 understand that's the -- the dotted purple line and
6 the blue line, and they're generally both in excess of
7 the 105 percent. There's a couple of places where
8 they touch down or just dip below it, but in general,
9 yes.

10 MR. ANTOINE HACAULT: Okay. And if
11 we...

12

13 (BRIEF PAUSE)

14

15 MR. ANTOINE HACAULT: Okay.

16

17 --- Upon recessing at 1:31 p.m.

18 --- Upon resuming at 1:40 p.m.

19

20 THE CHAIRPERSON: M. Hacault will
21 resume and we'll add --

22 MR. ANTOINE HACAULT: Two (2) minutes.
23 I don't think it will be necessary --

24 THE CHAIRPERSON: I think we're going
25 to be -- going to auction on this one. We'll add --

1 we'll add some additional time if you require.

2 MR. ANTOINE HACAULT: I don't think it
3 will be required but thank you very much for your
4 offer, Mr. Chair.

5

6 CONTINUED BY MR. ANTOINE HACAULT:

7 MR. ANTOINE HACAULT: Mr. Harper, I've
8 put the Daymark slide back on again. And I just want
9 to bring your attention to different time frames,
10 because you did that in your presentation. You
11 focused on a shorter time frame which was more like a
12 ten (10) year time frame and then you focused on the
13 longer time frame in your slides; correct?

14 MR. WILLIAM HARPER: That's correct.

15 MR. ANTOINE HACAULT: And if we take a
16 time frame of ten (10) years and we've heard Hydro's
17 policy to try and achieve certain results in ten (10)
18 years, what we see is that would bring us to 2027 on -
19 - on this export metric, and that would be -- it would
20 only have two (2) years of considering the impact of
21 how they now treat export revenues; correct?

22 MR. WILLIAM HARPER: I'm not sure
23 whether it's two (2) or three (3) because it'd be 25,
24 26 and 27.

25 MR. ANTOINE HACAULT: Oh, so somewhere

1 in the area of two (2) to three (3) years. If we're
2 running a twenty (20) year integrated financial
3 forecast, is it fair to suggest to you that the -- the
4 last ten (10) years of that integrated forecast taking
5 us to 2035/2036 would be the part of the forecast that
6 would be most significantly affected by this change in
7 how they address export revenues?

8 MR. WILLIAM HARPER: I would agree if
9 you were looking at the period all the way throughout
10 the 2033/'34 as I did that. That period would be much
11 more impacted by -- by the export pricing assumption
12 with respect to capacity than if you're looking at the
13 shorter ten (10) year period, yes.

14 MR. ANTOINE HACAULT: And, sir, I also
15 noted and Hydro presented this as a -- as a criticism
16 of your analysis that you're looking at taking into
17 the bank, I'll sort of say -- speak, the high
18 waterflow years. Now my question to you is: When you
19 have a high flow year, how many of the years does that
20 effect of your integrated financial forecast over a
21 twenty (20) year time period?

22 MR. WILLIAM HARPER: Well, my
23 understanding is there's probably one (1) or two (2)
24 at best because it's -- it's the inflows and then
25 perhaps the storage as result of those inflows

1 carrying over to -- to the next year, the forecast and
2 probably after that it's a -- it doesn't.

3 And the other important thing is that -
4 - high water flows, we're -- we're not assuming high
5 water flows after that and, to my understanding, the
6 probably of having a drought in the future doesn't
7 change depending upon what happened -- having a
8 drought next year may depend on what happened this
9 year, but having a drought -- the probability of
10 having a drought five (5) years from now really isn't
11 an impact on water flows today.

12 MR. ANTOINE HACAULT: So if we're
13 looking at twenty (20) year metrics and where we land
14 and the maximum amount of debt and where we land on
15 the retained earnings, you have a full eighteen (18)
16 years of what I'll call the lower median calculation
17 as opposed to P50 calculation, which leads you to the
18 total results on retained earnings; is that correct?

19 MR. WILLIAM HARPER: Well, you'd have
20 -- the bulk of the period would still be based on some
21 average year of water flows and the impact of that on
22 your revenues is going to be, yes.

23 MR. ANTOINE HACAULT: Now -- thank
24 you. I'll move on or back to Mr. Bowman's evidence,
25 MIPUG-13 and the table that's shown that page 7-3.

1 We've seen this table before. And if we could zoom in
2 perhaps to the top section, which shows us residential
3 and also the general service large 30 to a hundred kV.
4 And a little bit more to the right, which shows
5 general service large, greater than 100 kV.

6 Are you following me so far, Mr.
7 Harper?

8 MR. WILLIAM HARPER: Yes. Yes, I am.
9 And hopefully we don't scroll too much further,
10 otherwise, I'll lose the definition of the lines but
11 I'm following you so far.

12 MR. ANTOINE HACAULT: Okay. And what
13 -- I took some Hydro witnesses through was based on
14 PCOSS, so that's a protect -- prospective cost of
15 service study of 2018, Manitoba Hydro -- or based on
16 Manitoba Hydro's run of that, we see that the
17 residential customers are about \$42 million under the
18 parity level of 100 percent; correct?

19 MR. WILLIAM HARPER: Yes, based on the
20 application and a specific methodology, yes, they are.

21 MR. ANTOINE HACAULT: And in a very
22 general way, if we look at the general service ND
23 which would be no demand. There's a heading on top.

24 Do you see that?

25 MR. WILLIAM HARPER: Yes.

1 MR. ANTOINE HACAULT: The second line.
2 If we go down to the bottom, we see that based on this
3 run of the analysis, that class is about \$19 billion
4 over the 100 percent parity calculation, correct?

5 MR. WILLIAM HARPER: Yes. You -- you
6 clarified, yes and you've sort of qualified this but
7 based on this run of the analysis because these
8 numbers aren't precise the same as what I understand
9 Manitoba Hydro presented in their tab 8, page 27 of
10 their evidence.

11 So, I'm not too sure if this is based
12 on a slightly different calculation or --

13 MR. ANTOINE HACAULT: No, the numbers
14 are the same, Mr. Harper, and -- and -- and if we look
15 through the actual numbers, and that's why I'm
16 focusing on the numbers and not the percentages. I had
17 a discussion with Mr. Barnlund about how the
18 percentages get calculated and -- and there's a
19 difference in methodology.

20 MR. WILLIAM HARPER: And I think
21 that's part of what I talked about in my presentation
22 this morning probably too. So I was just wanting to
23 clarify that, you know, I'm not precisely sure how
24 these percentages are -- are -- are being derived, and
25 if that's important in your questions, I just wanted

1 to flag that.

2 MR. ANTOINE HACAULT: Thank you.

3 DR. BYRON WILLIAMS: Mr. Hacault, if I
4 could just interrupt and it's just a -- perhaps a
5 potential confusion on the record between a (b) and an
6 (m) and it may be that you said 18 or 19 billion and I
7 believe you meant to say "million."

8 MR. ANTOINE HACAULT: Million, yeah,
9 sorry. Thank you for that, Mr. -- Dr. Williams.

10 So that's why I intentionally stayed
11 away from the percentages and I'm looking at the --
12 the actual numbers to refus -- to not get into a
13 discussion on how we calculate percentages.

14 MR. WILLIAM HARPER: Well -- well --
15 the percentages are calculated from the numbers so
16 depending upon -- so you can't a different percentage
17 unless the numbers are different in some way. So I'm
18 -- I'm not too sure what turns on that. But -- but
19 I'm not too sure if it's -- I'm not too sure if I -- I
20 can divorce the two (2) entirely.

21 MR. ANTOINE HACAULT: Okay, can you
22 just follow me on the numbers --

23 MR. WILLIAM HARPER: Yeah, I'll follow
24 you on the numbers --

25 MR. ANTOINE HACAULT: Subject --

1 subject to check --

2 MR. WILLIAM HARPER: Okay, that's
3 fine.

4 MR. ANTOINE HACAULT: Just -- cause
5 you weren't here, the discussion I had with Mr.
6 Barnlund was whether or not we added the export
7 revenues to the revenue line, or whether we added them
8 to the ex -- the expense line.

9 What we did with them, and you
10 discussed that in your evidence, that results in the
11 change of percentages that we see as the next line in
12 this, but the -- the data is the same.

13 Can you go on that assumption for now?

14 MR. WILLIAM HARPER: Yes, I will. And
15 I'm sorry, I just didn't want to make sure we got too
16 far down the line and I didn't understand what was
17 going on. That's fine.

18 MR. ANTOINE HACAULT: Okay. And if we
19 go to general service large, 30 to 100 KV, that's
20 further to the right of the table, we see that
21 compared to the hundred percent metric, that class is
22 putting some \$8 million into the pot.

23 Do you see that, sir?

24 MR. WILLIAM HARPER: Yes, I see that.

25 MR. ANTOINE HACAULT: And finally, if

1 we go to general service large over 100 kV, we see
2 that the -- the general service large over 100 kV
3 based on the methodology in PCOSS, so prospective cost
4 of service study, 18 are contributing close to \$20
5 million.

6 Do you see that?

7 MR. WILLIAM HARPER: Yes, they -- I
8 see the difference is close to 20 million.

9 MR. ANTOINE HACAULT: Sir, would you
10 have any knowledge of whether in Manitoba there's any
11 development north initiatives?

12 MR. WILLIAM HARPER: I'm sorry, I'm
13 not even too sure if that's a particular acronym or
14 whether you're talking about development in the north.
15 So, obviously, I don't. I'm sorry.

16 MR. ANTOINE HACAULT: Okay. No, I
17 wouldn't expect you to know. We had produced some
18 documents in -- in our book of documents that talked
19 about some initiatives to develop the north and if you
20 don't know anything, that's okay. I don't intend to
21 ask any questions on -- on -- on those initiatives.

22 Now, sir, I think some of what you were
23 saying in your direct evidence with respect to all
24 electric rates -- of which included heating versus the
25 non-heating customers, we might see some challenges in

1 implementing that; is that fair so far?

2 MR. WILLIAM HARPER: Yes.

3 MR. ANTOINE HACAULT: And would you
4 acknowledge, Mr. Harper, that an individual might have
5 a different net income profile versus a rate paying
6 profile from the sense of how much he would end up
7 paying whether the program would be paid through
8 income tax, as a policy --

9 MR. WILLIAM HARPER: Okay, no, because
10 I didn't understand what you mean by "net income
11 profile" as opposed to "rate profile."

12 I guess what you're asking was a
13 different tax profile as opposed to Manitoba Hydro
14 ratepayer profile, if that's --

15 MR. ANTOINE HACAULT: That's right.
16 So you might have somebody that has taxable income of
17 a hundred thousand dollars (\$100,000) consuming the
18 same amount of energy as somebody who's making twelve
19 thousand (\$12,000).

20 MR. WILLIAM HARPER: You might have,
21 yes.

22 MR. ANTOINE HACAULT: And so -- we've
23 got to grapple with the policy as to whether or not
24 when we do a social program whether the governments do
25 that through income tax or, as suggested by some

1 Intervenor, through a rate profile?

2 MR. WILLIAM HARPER: Well, I think if
3 you start from the premise that it's not being done
4 through the tax system right now and -- and if there's
5 no proposals to -- to pursue it, then -- then the
6 question comes down to whether or not -- and so relief
7 is not going to come from that particular quarter,
8 whether -- whether or not -- and there is an issue
9 about low income people and their ability to pay their
10 electric bills, whether there is a case to be made
11 about it, shou -- it should come from the Man -- from
12 the Manitoba Hydro ratepayer because we know it is not
13 going to come from the taxpayer.

14 So to this extent, it isn't a choice of
15 one or the other, it's a choice of one or nothing.

16 MR. ANTOINE HACAULT: Okay. Now --
17 and that might mean that Mr. Hacault who lives outside
18 the perimeter who has all electric and as a hot tub
19 might get subsidized to run his hot tub and all -- his
20 all electric bills because there would be some lower
21 blocks for Mr. Hacault and his rate structure?

22 MR. WILLIAM HARPER: That's assuming
23 with your hot tub you're on low income. You're a low
24 income hot tub customer? I'll -- I'll leave that as
25 it is.

1 MR. ANTOINE HACAULT: Now, sir,
2 there's been some discussion in this hearing with
3 respect to time of use as it relates to top consumers.

4 Did you direct your mind at all to --
5 to that subject?

6 MR. WILLIAM HARPER: I read Mr. -- Mr.
7 Bowman's evidence. I'm -- I'm aware of the -- I'm
8 aware of the proposal. I'm aware there have been
9 discussions between Manitoba Hydro and the larger
10 customers about time of use for a while and that
11 there's actually been materials presented before this
12 -- before this Board in earlier proceedings on time-
13 of-use rates, yes.

14 MR. ANTOINE HACAULT: And would I be
15 correct in understanding for rate design that the
16 purpose of some time-of-use rates would be to send a
17 signal on efficiency for the customers to use energy
18 at appropriate times to reduce peak demands on the
19 system?

20 MR. WILLIAM HARPER: Well, it could be
21 to reduce peak demands. It could be to try and
22 encourage them to shift their load from higher cost
23 peak periods to lower cost off -- off-peak periods. I
24 think it -- it would encompass both of those.

25 MR. ANTOINE HACAULT: And is this an

1 example of a policy issue or a rate design efficiency
2 issue?

3 MR. WILLIAM HARPER: I'm not too sure
4 if I see a clear difference between the two (2)
5 because I see rate design as often a ri -- designing a
6 specific rate is just -- rate is just a tool to be
7 used to try and -- to a large extent, accomplish a
8 particular objective.

9 And so that if your objective is to try
10 to -- you want to send better price signals to
11 customers, then designing rates a certain way is -- is
12 a way of doing that. Rate design inn itself is not a
13 policy. I mean, it has to have some -- some
14 objectives und -- underlying it and, frequently, I
15 find from -- from my perspective, it's a matter of
16 people are coming to you and saying, can I design a
17 rate that will ach -- achieve these sorts of
18 objectives; that's the -- so I don't see the -- I
19 don't see there being a distinction between the two
20 (2).

21 MR. ANTOINE HACAULT: So would you
22 see a distinction between a time-of-use rate design
23 for top consumers or versus, for example, a rate
24 design which would distinguish between all electric
25 users versus people who might not heat on electricity?

1 Is there a difference between the rate design?

2 MR. WILLIAM HARPER: Well, there's a
3 difference in terms of the object -- of the objectives
4 and the -- and -- and the issues you're try to
5 address, yes.

6 MR. ANTOINE HACAULT: Okay. And would
7 you qualify one as a social policy objective versus
8 the other one not being a social policy objective?

9 MR. WILLIAM HARPER: I -- I would
10 probably qualify it more as a public interest
11 objective as opposed to a social policy objective.

12 MR. ANTOINE HACAULT: Okay. Now, if
13 we could turn to MIPUG book of documents 23-1, the
14 last page. This is a slide from Boston Consulting
15 Group which identified economic development rates
16 available in other provinces to attract and retain
17 electricity intensive industries.

18 Would there be a distinction between
19 this type of rate incentive and a time-of-use rate
20 design?

21 MR. WILLIAM HARPER: Well, I think --
22 I think these are examples of different types of
23 rates. Some of them aren't even rate designs, if I
24 can put it that way. Like -- and the one I'm most
25 familiar with is the BC Hydro one in the mining

1 company to deferral. And that was specifically
2 related to a concerns about downturn in commodity
3 markets, ability of certain industries in -- in the
4 province to be able to pay -- pay -- pay their
5 electric bills.

6 And this wasn't a BC usage decision,
7 this was a directive from -- from -- from the
8 government to, basically, allow these mining companies
9 to defer their payments with a view that there be
10 interest accrued on it and if the commodity prices
11 came back that they would have to re -- repay it. So
12 it as almost like a cost smoothing or sort of a bill -
13 - bill management program. Maybe something you can --
14 - you know, sort of a -- sort of a -- and the longer
15 term payment programs for residential customers,
16 whereas some of the other ones I -- looks like to me
17 are more sort of a rate -- rate design issues. Like I
18 said, I'm not too sure if I could characterize all
19 these as being precisely the same. Each of them, as I
20 said, are trying to address a particular problem or a
21 particular situation.

22 MR. ANTOINE HACAULT: Would you agree
23 with me that the focus is a policy one where you're
24 giving a class of ratepayers a lower rate to implement
25 economic policy?

1 MR. WILLIAM HARPER: On the face of
2 just reading the bullets, it looks -- it looks like
3 that, yes. I can't say for sure whether that was to
4 present an example, but if I read through the bullets
5 themselves, it sounds like that's the type of thing
6 that -- what's going on here, yes.

7 MR. ANTOINE HACAULT: And as I've
8 heard your evidence, sir, the low income rates because
9 the government isn't implementing that policy, you
10 feel compelled to comment on whether or not the PUB
11 and Hydro should implement that social policy?

12 MR. WILLIAM HARPER: Well, it was
13 something -- it was a matter that had could come up in
14 the proceeding, and I felt I had -- had some
15 worthwhile comments to make and if you're going to
16 look forward at such a policy, how you would implement
17 it.

18 I should maybe point out with that
19 mining company BC Hydro proposal, if the mines had not
20 been able to pay the money back, it would have been
21 paid -- the impact of that would have gone to all
22 ratepayers in BC. It would not just have gone to
23 industrial customers or back to those mining
24 customers. All ratepayers in BC would have been
25 responsible for it.

1 MR. ANTOINE HACAULT: Thank you.

2 Those are all my questions. No time extension
3 required.

4 THE CHAIRPERSON: Thank you, Mr.
5 Hacaault. Sorry, Mr. Ghikas -- oh, Ms. Ramage...?

6 MS. PATTI RAMAGE: Yes, thank you, Mr.
7 Chair. I just have one (1) short point of
8 clarification with Mr. Harper and then we'll be
9 turning the mic over to Mr. Ghikas but it wasn't an
10 area we had assigned to Mr. Ghikas.

11

12 CROSS-EXAMINATION BY MR. PATTI RAMAGE:

13 MS. PATTI RAMAGE: Morning, Bill or
14 afternoon, Bill.

15 MR. WILLIAM HARPER: Good morning.

16 MS. PATTI RAMAGE: I was wondering,
17 Diana, if you could turn to slide 21 of Mr. Harper's
18 presentation. That is the slide that deals with
19 regulatory accounts.

20 MR. WILLIAM HARPER: Yes.

21 MS. PATTI RAMAGE: It's an area -- it
22 hasn't received a lot of attention, I think for good
23 reason and I don't intend to change that. I just
24 wanted to ask a couple of points of clarification.

25 You've recommended extending the

1 amortization period for ineligible overheads from
2 twenty (20) to thirty (30) years and to continue with
3 the deferral indefinitely; that's correct?

4 MR. WILLIAM HARPER: That's correct.

5 MS. PATTI RAMAGE: And with respect to
6 the ALG and ASL deferral account assuming continued
7 deferral of the ELG ASL depreciation difference,
8 you're recommending continuing the deferral
9 indefinitely and a thirty (30) year amortization,
10 correct?

11 MR. WILLIAM HARPER: No.

12 MS. PATTI RAMAGE: No?

13 MR. WILLIAM HARPER: Pending the
14 Manitoba Hydro report and the resolution of the ELG
15 ASL issue. So it -- so in anticipating that hope
16 maybe that comes back at the next -- next GRA, you --
17 you -- you would have a -- no amortization for a
18 period of two (2) or so, then -- and then the Board
19 once it's decided what the appropriate depreciation is
20 for regulatory purposes and rate setting purposes
21 going forward at the same point in time, you could
22 decide, one, depending on what that decision was
23 whether there was a need for a deferral account going
24 forward, how -- how it would be treated, if there was
25 need for one, and they would deal with the two (2)

1 years worth of accruals in the existing account.

2 MS. PATTI RAMAGE: Okay, fair enough.
3 You'd agree that if the Board adopted these
4 recommendations, it would have minimum impact on the
5 requested rate increases in this proceeding?

6 MR. WILLIAM HARPER: Yes, in terms of
7 the two -- of the two -- of the two (2) specific years
8 we're looking at, yes.

9 MS. PATTI RAMAGE: Okay. That's all
10 my questions on that point. I'll pass the mic up.

11 THE CHAIRPERSON: Thank you. Mr.
12 Ghikas...?

13

14 CROSS-EXAMINATION BY MR. MATTHEW GHIKAS:

15 MR. MATTHEW GHIKAS: Thank you, Mr.
16 Chairman, members. Good afternoon, Mr. Harper.

17 MR. WILLIAM HARPER: Good afternoon.

18 MR. MATTHEW GHIKAS: My name's Matt
19 Ghikas. I am one of the lawyers for Manitoba Hydro.

20 I'm going to focus my questions on the
21 financial section of your report, and the documents
22 that I'll be referring to primarily are your
23 presentation today, and your evidence, okay.

24 MR. WILLIAM HARPER: That's fair.

25 MR. MATTHEW GHIKAS: I wanted to start

1 with slide 15 of your presentation, Consumer Coalition
2 46, please.

3 Now, I just wanted to start off just
4 with a clarification. In the last bullet there when
5 you're talking about the update not comprehensive only
6 accounts for lower water export prices, that's not a
7 reference to the IFF16 Update with interim, is it?

8 MR. WILLIAM HARPER: No, no, no, it is
9 not. In the rebuttal itself it talked about a further
10 update again, if I can call, of -- of the -- and the
11 update was dealing specifically with net export
12 revenues and the implications for low water and export
13 -- and lower export prices on the export revenues.

14 MR. MATTHEW GHIKAS: Right. And so
15 that -- and that update you're referring to pointed to
16 a decline in export revenues since IFF16 Update with
17 interim; correct?

18 MR. WILLIAM HARPER: Yes.

19 MR. MATTHEW GHIKAS: Okay. Now, just
20 jumping up one (1) bullet there to the -- your -- your
21 point, conclusions regarding financial outlook should
22 reflect current conditions and expected changes.

23 I take it that's your position?

24 MR. WILLIAM HARPER: Yes, it is.

25 MR. MATTHEW GHIKAS: Okay. And so you

1 say -- let me just take you to your -- your report
2 now. I'm at page -- well, let's first of all, let's
3 go to the table of contents might -- might help us
4 here, which is the second -- second page of the pdf.
5 Right.

6 So the section that we're focusing on
7 here is the first thirty-two (32) pages, right?

8 MR. WILLIAM HARPER: Right.

9 MR. MATTHEW GHIKAS: Okay. And so for
10 the first few pages you deal with a comparison over
11 the period of 2015 to 2017, actual forecast to
12 actuals?

13 MR. WILLIAM HARPER: That's correct,
14 yes.

15 MR. MATTHEW GHIKAS: Okay. And so
16 when we get to page 13, that's where we start
17 comparing forecast to forecast?

18 MR. WILLIAM HARPER: That's correct.

19 MR. MATTHEW GHIKAS: Okay. So let's
20 start there, page 13. And the -- this section starts
21 by comparing past forecasts to IFF16; right?

22 MR. WILLIAM HARPER: That's correct.

23 MR. MATTHEW GHIKAS: And not IFF16
24 Update with interim --

25 MR. WILLIAM HARPER: Excuse me, not

1 IFF16, IFF16 where you've incorporated into it the
2 rate plan from IFF15.

3 MR. MATTHEW GHIKAS: Thank you. Okay.
4 And it's not the update with interim?

5 MR. WILLIAM HARPER: No, that's dealt
6 with later on.

7 MR. MATTHEW GHIKAS: Okay. So if we
8 go to schedule -- schedule 6, for example, schedule 6
9 isn't looking at the update with interim?

10 MR. WILLIAM HARPER: No, it is not.

11 MR. MATTHEW GHIKAS: Okay. And if we
12 go to schedule 7, that's not looking at the update
13 with interim either, is it?

14 MR. WILLIAM HARPER: No, as I -- as I
15 sort of laid out in the evidence and I sort of
16 indicated in my presentation, the -- the focus of the
17 first part of this -- and actually the main focus of
18 the evidence was on IFF16 because that was the basis
19 for Manitoba Hydro's claim there had been a
20 significant deterioration in the financial outlook.

21 MR. MATTHEW GHIKAS: Right. Thank
22 you. And IFF16, you'd agree with me, is not the most
23 current and updated information?

24 MR. WILLIAM HARPER: Yes, that's
25 correct.

1 MR. MATTHEW GHIKAS: Okay. So if --
2 just rolling through then schedule 7, schedule 8. We
3 just keep scrolling down, schedule 9, schedule 10,
4 schedule 11, schedule 12, schedule 13, schedule 14,
5 schedule 15, schedule 16 and sch --

6 MR. WILLIAM HARPER: You're going
7 faster than the -- then -- then the screen is, but so.

8 MR. MATTHEW GHIKAS: Yes. Okay. So,
9 and all the way up to schedule 17 on page 27, all of
10 those are dealing with IFF16 with the 3.95 and not the
11 updated with interim; correct?

12 MR. WILLIAM HARPER: That's correct.

13 MR. MATTHEW GHIKAS: So the part that
14 deals with the most current forecast, the updated with
15 interim then, is the last four (4) pages of the thirty
16 -two (32)?

17 MR. WILLIAM HARPER: Yes, it is. But
18 I think as I pointed out before, it's important to
19 note that I was looking at the justification Manitoba
20 Hydro had in the application that it initially filed.
21 And the application initially filed was based on IFF16
22 and it was in the context of IFF16 that they made the
23 claim there was a significant deterioration.

24 So I acknowledge and I've tried to
25 address the fact that the financial forecast has

1 changed. I think, to some extent, the claim itself
2 and the justification for the claim has to rest on
3 IFF16 cause that was the information Manitoba Hydro
4 had when it made that claim.

5 MR. MATTHEW GHIKAS: Right, but the
6 decisions of the Board, sir, have to be made on the
7 best available information going forward; correct?

8 MR. WILLIAM HARPER: I agree. I was
9 just trying to make -- make that distinction in terms
10 of what the intent of the evidence was, and that's why
11 even in my presentation I tried to incorporate the
12 IFF16 with interim with twenty (20) year WATM.

13 MR. MATTHEW GHIKAS: Okay. So let's -
14 - let's go back to the three (3) year period, first of
15 all, where you compared forecast to actuals and that
16 starts on page 8. Under the heading Recent Financial
17 Performance.

18 So this is the forecast over the three
19 (3) years to actual; correct?

20 MR. WILLIAM HARPER: That's correct.

21 MR. MATTHEW GHIKAS: Okay. And the
22 forecast that we're looking at is the forecast -- the
23 IFF14, the IFF15 compared to what has actually been
24 achieved?

25 MR. WILLIAM HARPER: That's correct.

1 And to some extent, the IFF15 will incorporate I think
2 one (1) year of actuals if I'm not mistaken because by
3 that point in time we'd gotten part way in the three
4 (3) year period.

5 MR. MATTHEW GHIKAS: Right. Okay. So
6 on -- on slide 6 of your presentation, you actually
7 summarized your conclusion about this section and
8 maybe that's a good place for us to jump off.

9

10 (BRIEF PAUSE)

11

12 MR. MATTHEW GHIKAS: First of all,
13 before we get into the details, there's a row that
14 says "EBITDA dollar millions -- average." Am I
15 correct that that's actually the EBITDA to interest
16 ratio expressed as a ratio rather than in millions of
17 dollars?

18 MR. WILLIAM HARPER: Yes. Yes, you're
19 correct, and that's the way it's presented in -- in
20 the evidence, actually, yes.

21 MR. MATTHEW GHIKAS: Right. And it --
22 that appears in a number of -- of the schedules, but
23 the same clarification applies?

24 MR. WILLIAM HARPER: Yes. Yes, I -- I
25 apologize. I --

1 MR. MATTHEW GHIKAS: That's okay. I
2 just wanted to make sure everybody was on the same
3 page. But they are averages?

4 MR. WILLIAM HARPER: Yes. I basically
5 took the EBITDA for each of the three (3) years, and
6 then -- and averaged that over the three (3) years.

7 MR. MATTHEW GHIKAS: Each of the
8 EBITDA to interest ratio outputs, averaged those over
9 --

10 MR. WILLIAM HARPER: Yes.

11 MR. MATTHEW GHIKAS: -- ten (10) years
12 --

13 MR. WILLIAM HARPER: No, over the
14 three (3) years in this case.

15 MR. MATTHEW GHIKAS: Over the three
16 (3) years in this case, sorry. Yes. Thank you.

17 Now, you'd agree with me that if you're
18 making a comparison like this, it's important to
19 compare on an apples to apples basis?

20 MR. WILLIAM HARPER: Again, I may have
21 been -- that's with a quibble was, I think, because it
22 can depends -- it depends what -- what you're using
23 the purposes for and what you're calling apples to
24 apples.

25 MR. MATTHEW GHIKAS: Okay. Well, let

1 me -- let me go at it this way. So you'd agree with
2 me that in between the time that IFF14 was prepared,
3 and the presentation of the actual results, there was
4 a Board Order that addressed the treatment of
5 overheads capitalized and depreciation.

6 MR. WILLIAM HARPER: Yes, there was.

7 MR. MATTHEW GHIKAS: Okay. And the
8 IFF15 forecast, although it predated the Board's
9 Order, the IFF -- or sorry. Although it postdated the
10 Order, it did not include the -- it did not reflect
11 the directions in the Order on those two (2) things,
12 because Manitoba Hydro is seeking clarification,
13 correct?

14 MR. WILLIAM HARPER: Yes, the -- that
15 -- that's correct.

16 MR. MATTHEW GHIKAS: So -- and in your
17 report, we don't actually have to turn there, it is on
18 page 42, but you discuss the effect of that overheads
19 capitalized change, and you indicated that the impact
20 of that was approximately 20 million per year,
21 correct?

22 MR. WILLIAM HARPER: Right. I -- I --
23 and that -- that -- yes, that's right. And I was just
24 trying to point -- what I -- what I've been trying to
25 do here is point out what's some of the diff -- some -

1 - some of the differences were, and I understand the
2 changes, yes.

3 MR. MATTHEW GHIKAS: Okay. And so 20
4 million per year over the three (3) year period of
5 2015 to 2017, that's, by my lawyer's math, 60 million?

6 MR. WILLIAM HARPER: Well, I'm not too
7 sure if the -- if the actual results were all three
8 (3) years included the deferral or -- or not. I -- I
9 can't recall off the top of my head, but -- but if it
10 did, your math would be correct.

11 MR. MATTHEW GHIKAS: Okay. Well, my
12 instructions are is that it did --

13 MR. WILLIAM HARPER: Okay.

14 MR. MATTHEW GHIKAS: -- and so if we
15 can do that, subject to check --

16 MR. WILLIAM HARPER: No, that --
17 that's fine --

18 MR. MATTHEW GHIKAS: -- that would be
19 good.

20 MR. WILLIAM HARPER: -- subject to
21 check, I -- I just -- I -- I'm -- that's right.

22 MR. MATTHEW GHIKAS: Okay. And that
23 60 million flows directly into the net income numbers,
24 correct?

25 MR. WILLIAM HARPER: Yes, it would.

1 MR. MATTHEW GHIKAS: And now, the
2 effect of the -- of the order regarding the
3 depreciation treatment, which you also discussed at
4 page 40 -- we don't need to go there, but the effect
5 of that treatment was to direct Manitoba Hydro to
6 capitalize the differential between ASL and ELG
7 methodologies, correct?

8 MR. WILLIAM HARPER: It was to defer
9 it. I -- I wouldn't use the word 'capitalized'.

10 MR. MATTHEW GHIKAS: Okay, defer and
11 amortize? Thank you. And so my -- my --

12 MR. WILLIAM HARPER: Excuse me, I
13 don't believe the direction from the Board -- the
14 direction talked -- I don't think -- I believe the
15 direction from the Board talked about the deferral and
16 the amortization. It talked about what should be used
17 for regulatory purp -- purposes, and how it should be
18 charged to the other comprehensive income. It was
19 Manitoba Hydro that then, based on how they had their
20 report for financial purposes, undertook to defer and
21 amortize it. But I don't think anything in the Board
22 specifically talked about deferring and amortizing it.

23 MR. MATTHEW GHIKAS: And -- and
24 following through on that, that also affects net
25 income, right?

1 MR. WILLIAM HARPER: Yes, it does.

2 But I just want to be clear on where the direction was
3 coming from.

4 MR. MATTHEW GHIKAS: I -- I
5 understand, and I appreciate the clarification. Now,
6 Manitoba's Hydro's evidence is that that change
7 represents 30 million -- it affects net income by \$30
8 million per year. Would you accept that, subject to
9 check?

10 MR. WILLIAM HARPER: I can accept
11 that, yes.

12 MR. MATTHEW GHIKAS: Okay. And so
13 over the three (3) years, again, by my math, that
14 would be \$90 million, subject to check? You can
15 accept the math, probably, without subject to check.

16 MR. WILLIAM HARPER: Yes, I can accept
17 the math.

18 MR. MATTHEW GHIKAS: Okay. I don't -
19 I am a lawyer, so you never know.

20 So if we want to look at how -- what
21 happens with that on your table on slide 6, we'd be
22 looking over at the actual results. Now, there -- if
23 we wanted to put these changes on an apples to apples
24 basis, we'd either have to adjust the forecast or the
25 actuals, and six (6) of one, half (1/2) a dozen of the

1 other?

2 MR. WILLIAM HARPER: Yes, that would
3 seem so. Yeah.

4 MR. MATTHEW GHIKAS: Okay. So I'm
5 just going to change the -- work with -- off the
6 actual results, here. So if -- we're starting at one
7 eighty-five (185) in the net income line, and we
8 adjust for -- downwards for \$90 million over the three
9 (3) year periods, and then another \$60 million, we
10 would be down to, by my math, 35 million. Is that
11 correct?

12 MR. WILLIAM HARPER: It sounds like
13 your math's about right.

14 MR. MATTHEW GHIKAS: And...

15

16 (BRIEF PAUSE)

17

18 MR. MATTHEW GHIKAS: So the change
19 from IFF14, then, to the actual results would be
20 approximately \$240 million, correct? The varia - the
21 variance?

22 MR. WILLIAM HARPER: I'm sorry, I'm
23 not too sure where you're getting your numbers from,
24 but --

25 MR. MATTHEW GHIKAS: The two hundred

1 and seventy-six (276) forecast, IFF14, less the --
2 less the 35 million, where we end up at the actual
3 results after deducting sixty (60), and ninety (90).

4 MR. WILLIAM HARPER: Right. Okay.

5 MR. MATTHEW GHIKAS: That takes us to
6 about a \$240 million negative variance?

7 MR. WILLIAM HARPER: That sounds about
8 right.

9 MR. MATTHEW GHIKAS: Okay. And that
10 would be about a -87 percent, by my math? Does that
11 sound right?

12 MR. WILLIAM HARPER: It sounds right.

13 MR. MATTHEW GHIKAS: And if we were to
14 look at IFF15, and start with the one hundred and
15 thirty-nine (139), and we were to compare that to the
16 35 million in the actuals, we would be down 104
17 million, correct?

18 MR. WILLIAM HARPER: Yes.

19 MR. MATTHEW GHIKAS: And that would
20 be, by my math, a -74 percent --

21 MR. WILLIAM HARPER: I'll take your
22 math, subject to check.

23 MR. MATTHEW GHIKAS: Thank you. Okay.
24 Now, including -- with respect to your comparisons,
25 then, later on forecast to forecast, you've similarly

1 made no adjustment for the accounting, correct?

2 MR. WILLIAM HARPER: No, I've -- I've
3 taken the forecast as they were. That's correct.

4 MR. MATTHEW GHIKAS: Okay. And you'd
5 agree with me that IFF16 was prepared following the
6 directions of the Board? It was prepared on the same
7 basis as these actual results were?

8 MR. WILLIAM HARPER: Well, I -- I
9 don't know if it was prepared on the dir -- directions
10 of the Board, because they'd use a twenty (20) year
11 amortization as opposed to a thirty (30) year
12 amortization, and it stopped the deferral in 2022/'23,
13 so -- but it -- it was a -- it was prepared on a
14 different treatment of those than what was shown in
15 IFF14 or IFF15, I would agree with that.

16 MR. MATTHEW GHIKAS: Right. And if --
17 if we were to look at comparing IFF15 metrics to IFF16
18 metrics, for example, the deterioration that we'd be
19 seeing, or the variance that we'd be seeing would be
20 greater than otherwise shown if we were to account for
21 those changes, correct?

22 MR. WILLIAM HARPER: Well, I -- well,
23 I -- because I think -- thing is net income isn't one
24 (1) of the -- one (1) of the metrics that I used, or
25 one (1) of the metrics that Manitoba Hydro uses from a

1 financial perspective. You'd have to work that
2 through in terms of what that difference -- if you're
3 -- if you're want -- if you're wanting do this type of
4 act -- comparison, what -- what that meant terms of
5 the impact on -- on the -- either the debt ratio or
6 the EBITDA has no impact at all on the overall cap --
7 capital coverage, is because it doesn't impact on cash
8 flows or -- or spending it all.

9 So you can work it through, but in --
10 for some of the metrics, it will have no impact. For
11 some of the metrics, it -- it will have some -- it
12 will have some -- some impact, but the metric for
13 which it has the most direct impact is net income.
14 But I think using those percentages and trying to
15 suggest that's the materiality of the impact for the
16 other metrics is incorrect.

17 MR. MATTHEW GHIKAS: No, we -- I'm
18 leaving beside the math for -- for a moment, but just
19 -- just sticking with net income for a moment, those -
20 - the -- the forecasts that were prepared in the IFF16
21 and the IFF16 with update and interim were prepared on
22 a different basis than the IFF14 and IFF15 on these
23 two (2) issues of overheads capitalized and treatment
24 of depreciation?

25 MR. WILLIAM HARPER: They were -- they

1 were prepared on difference in a lot of assumptions,
2 yes.

3 MR. MATTHEW GHIKAS: Right, including
4 those?

5 MR. WILLIAM HARPER: Including those
6 two (2).

7 MR. MATTHEW GHIKAS: Now, if we were
8 to look at slide 18, this -- you mentioned the debt
9 ratio just now, and just to confirm, this slide
10 doesn't reflect the treatment differences with respect
11 to overheads capitalized and depreciation either, does
12 it?

13 MR. WILLIAM HARPER: No, it does not.

14 MR. MATTHEW GHIKAS: Okay. And would
15 you accept, subject to check, based on the response to
16 PUB/Manitoba Hydro-1-1 that the cumulative impact of
17 those accounting changes over the period until 2027 is
18 356 million?

19 MR. WILLIAM HARPER: The cumulative
20 impact on what?

21 MR. MATTHEW GHIKAS: On retained
22 earnings.

23 MR. WILLIAM HARPER: Retained
24 earnings. Subject to -- subject to check, I'll accept
25 that, yes.

1 MR. MATTHEW GHIKAS: If we can change
2 to slide 6, please.

3 THE CHAIRPERSON: Sorry, is that an
4 undertaking?

5 MR. MATTHEW GHIKAS: I just left it
6 with them, subject to check.

7 THE CHAIRPERSON: Okay. That's fine.
8 Thank you.

9 MR. WILLIAM HARPER: And it was PUB-1?

10

11 CONTINUED BY MR. MATTHEW GHIKAS:

12 MR. MATTHEW GHIKAS: It was
13 PUB/Manitoba Hydro-1-1.

14 MR. WILLIAM HARPER: Yes.

15

16 (BRIEF PAUSE)

17

18 MR. MATTHEW GHIKAS: Slide 6. And you
19 -- you alluded to this earlier today, but when you do
20 your comparison on slide 6, this again is looking at -
21 - this is now forecast to actual, again, back in the
22 2015 to 2017 period. And when you did that
23 comparison, you haven't made any adjustments for
24 higher than normal water levels, right?

25 MR. WILLIAM HARPER: No, I -- actual

1 results are based on actual water flows.

2 MR. MATTHEW GHIKAS: Right. And the
3 forecast, IFF14 and IFF15 would have been based on a -
4 - a normalized water flow over decades of -- of
5 experience.

6 MR. WILLIAM HARPER: It -- it depends
7 on which years you're looking at, because the first
8 two (2) years of each of those forecasts would have
9 been based on water conditions at that point in time
10 in the second year on -- on the median. So 2015 to
11 2017 would -- wouldn't have been based on -- on
12 averages for all three (3) years in -- in those two
13 (2) forecast.

14 MR. MATTHEW GHIKAS: Okay.

15 MR. WILLIAM HARPER: But it would have
16 been based on a different assumption of -- of
17 hydraulic flows, I'll -- I'll accept that.

18 MR. MATTHEW GHIKAS: Okay. And you'd
19 agree with me that -- that the windfall that
20 favourable water levels provided in this period is
21 masking some of the deterioration in the underlying
22 business?

23

24 (BRIEF PAUSE)

25

1 MR. WILLIAM HARPER: If you were to
2 take -- take it out, the business would look
3 different, but this is how the business looks because
4 this is what actually happened. So I'm not to -- I --
5 I have a difficult -- with -- with the masking,
6 because what you have here is -- is the actual
7 results.

8 The -- like I said, out -- results
9 would have been different if the water flows had been
10 different, but the water flows were what they were.

11 MR. MATTHEW GHIKAS: Manitoba Hydro
12 can't rely on a windfall from high water levels every
13 year, though, can't it -- can it?

14 MR. WILLIAM HARPER: No, and when we
15 look at the forecast going forward, those forecasts
16 aren't based on assuming windfalls going forward.

17 MR. MATTHEW GHIKAS: All right. Now,
18 perhaps the best way to -- to deal with this next
19 question -- it's a -- a minor point, but it might be
20 easiest if we look at slide 9, first of all, and then
21 -- okay.

22 So now here we're getting into a ten
23 (10) year period, comparing forecast to forecast,
24 correct?

25 MR. WILLIAM HARPER: That's correct.

1 MR. MATTHEW GHIKAS: Okay. Now...

2

3 (BRIEF PAUSE)

4

5 MR. MATTHEW GHIKAS: The -- if we take
6 IFF14 and 15, those were prepared before they
7 announced twenty-one (21) month delay in Keeyask,
8 correct?

9 MR. WILLIAM HARPER: That's correct.

10 MR. MATTHEW GHIKAS: Okay. And IFF16
11 reflects the twenty-one (21) month delay?

12 MR. WILLIAM HARPER: Both in terms of
13 revenues and in terms of costs, yes.

14 MR. WILLIAM HARPER: Correct. Okay.
15 So if we -- if we can go to the GRA, Diana, Tab 2,
16 page 25, this might just help us with the line of
17 questions. And I didn't provide this to you, Mr.
18 Harper. So I'd just -- I'm just looking for
19 illustrative purposes, here. It might just help our -
20 - our discussion.

21 This is Manitoba Hydro's application,
22 and it -- in figure 2.21, it's talking about Keeyask
23 net cash flow and net income. And so the bottom line
24 there is net income, the impacts on net income
25 associated with the introduction of Keeyask in 2021.

1 And really, what I'm putting this up
2 here for is it just -- help us focus here. So what
3 the impact of -- of Keeyask coming online is, you'd
4 agree with me, a reduction in net income in and of
5 itself? That's the effect it has? Other things
6 equal, it reduces net income?

7 MR. WILLIAM HARPER: I believe so,
8 yes, because when you bring it online, the cost you've
9 been capitalizing now end up getting depreciated.
10 There's interest attributed to those cost -- assets
11 that are now in -- in service. And I assume that
12 while there's some revenues coming from the fact that
13 Keeyask is online, you're able to export those
14 revenues, the revenues -- I assume that's what's
15 underlying this. The -- the revenues don't offset
16 those costs.

17 MR. MATTHEW GHIKAS: Right. And so if
18 we're looking at your ten (10) year period, it falls -
19 - and I should say, this is the revised -- this is
20 showing the revised schedule in-service date, this
21 graph here. And so your ten (10) year period goes
22 from 2017 to 2027, correct?

23 MR. WILLIAM HARPER: That's correct,
24 yeah.

25 MR. MATTHEW GHIKAS: Okay. And so if

1 -- if the original date was in play, that drop in net
2 income would be shifted to the left, as it were. It
3 would be occurring sooner, correct?

4 MR. WILLIAM HARPER: That's correct.

5 MR. MATTHEW GHIKAS: Okay. And so
6 over the ten (10) year period, if we were taking an
7 isolated snapshot of ten (10) years, you'd agree with
8 me that if we're looking at a later in-service date,
9 what that's effectively doing is pushing twenty-one
10 (21) months of losses out the back end of that ten
11 (10) year period?

12 MR. WILLIAM HARPER: Yes, you're --
13 you're shifting the curve, yes.

14 MR. MATTHEW GHIKAS: Okay. Thank you.
15 And that -- that essentially has the effect of
16 diminishing the forecast net income in that -- that
17 ten (10) year period, correct?

18 MR. WILLIAM HARPER: If you move it --
19 if you move it -- if you move it to the left, it
20 diminishes it, yes.

21 MR. MATTHEW GHIKAS: Yes. Right. So
22 the original forecast is, relative to the other one,
23 understated? The original forecasts would otherwise
24 appeared higher had it -- had we -- had they accounted
25 for the later date?

1 MR. WILLIAM HARPER: The -- the short-
2 term impact of the delay on Keeyask is to have a
3 favourable impact on -- on the financial statement.
4 There -- there were a lot of other changes that took
5 place between those two (2) financial forecasts,
6 probably those other changes in capital spending that
7 took place between those two (2) forecasts, and I
8 guess my issue was, in part, was we seem to be -- and
9 maybe one (1) big one, but we seem to be isolating one
10 (1) -- one (1) particular --

11 MR. MATTHEW GHIKAS: Okay.

12 MR. WILLIAM HARPER: -- issue, here,
13 when there's a lot of changes going on between
14 different financial forecasts.

15 MR. MATTHEW GHIKAS: Okay. All right.
16 So if we now go to -- switching gears, Manitoba
17 Hydro's IFF16, with the interim and the update, let's
18 move our discussion to -- to that, okay?

19 MR. WILLIAM HARPER: Okay.

20 MR. MATTHEW GHIKAS: Now, that --
21 let's see.

22

23 (BRIEF PAUSE)

24

25 MR. MATTHEW GHIKAS: The easiest thing

1 to do, I think, would actually be to go to page 29 of
2 your -- sorry, page --

3 MR. WILLIAM HARPER: Yes, my evidence
4 starts with that topic on page 28, so the chart's on
5 29.

6

7 (BRIEF PAUSE)

8

9 MR. MATTHEW GHIKAS: Actually, looking
10 at -- actually, it's page 32 that I'm interested in,
11 here.

12 MR. WILLIAM HARPER: Okay. Sorry.

13 MR. MATTHEW GHIKAS: No, that's --
14 that's okay. I appreciate it.

15 So just before jumping into the -- the
16 conclusion, here, maybe we can just deal with a few
17 underlying drivers, which you've -- you've touched on
18 in the -- the bullets at the bottom of that page.

19 But you'd just confirm for me that
20 Bipole's cost in-between the time of IFF15, for
21 example, and the preparation of IFF16 with update and
22 interim, the cost of Bipole has gone up 400 million,
23 subject to check?

24 MR. WILLIAM HARPER: I'll accept that,
25 yes.

1 MR. MATTHEW GHIKAS: And Keeyask's
2 costs have gone up 2.2 billion or 33 percent; subject
3 to check?

4 MR. WILLIAM HARPER: That's fine.

5 MR. MATTHEW GHIKAS: And if we look at
6 the ten (10) years out to 2027, domestic volumes are
7 down 8 percent between IFF15 and 16 with the Update.

8 MR. WILLIAM HARPER: Domestic volumes
9 are down, yes.

10 MR. MATTHEW GHIKAS: And export prices
11 are down 23 percent between IFF15 and IFF16 with
12 update?

13 MR. WILLIAM HARPER: I'll agree that
14 they're down, yes.

15 MR. MATTHEW GHIKAS: Twenty-nine -- 29
16 percent, sorry. Subject to check?

17 And -- now, in that second paragraph of
18 your conclusions there, you can see you're -- you're
19 discussing -- that's where you discuss the update with
20 --

21 MR. WILLIAM HARPER: Update with
22 interim.

23 MR. MATTHEW GHIKAS: Update with
24 interim, thank you. And so, first of all, you note
25 that the capital coverage ratio that you calculated is

1 deteriorated; correct?

2 MR. WILLIAM HARPER: That's correct.

3 MR. MATTHEW GHIKAS: And that that
4 ratio has deteriorated?

5 MR. WILLIAM HARPER: Yes, you -- you
6 don't reach the targets.

7 MR. MATTHEW GHIKAS: And that the
8 retained earnings have deteriorated?

9 MR. WILLIAM HARPER: Yes.

10 MR. MATTHEW GHIKAS: And as you put
11 it, those three (3) measures are out of line with
12 earlier forecasts; correct?

13 MR. WILLIAM HARPER: That's correct.

14 MR. MATTHEW GHIKAS: Okay. And then
15 you've got a "however" and you can just read through
16 that. So, those two (2) factors in your -- in your
17 caveat there on "however," those are the two (2)
18 factors that allow you to conclude that there has not
19 been a fundamental change in the financial outlook,
20 correct?

21 MR. WILLIAM HARPER: I -- I think the
22 word Manitoba Hydro used was "significant."

23 MR. MATTHEW GHIKAS: Okay. And those
24 are -- those are the points you rely on?

25 MR. WILLIAM HARPER: Yes. Well --

1 yes, the -- the fact that with -- with -- with a cal -
2 - tweaking with a minor revision to the prev -- to the
3 previous rate plan, you can still -- you can still get
4 back to the -- to the 75 percent in debt rate -- debt
5 ratio target by twen -- by 2033/'34; consistent with
6 the previous forecast.

7 MR. MATTHEW GHIKAS: So you can -- you
8 can -- it takes two (2) years longer, effectively, to
9 reach the same debt equity ratio now under the update
10 with interim.

11 MR. WILLIAM HARPER: Yes, I think it's
12 interesting to note that even IFF14 and IFF15 had
13 different periods of time over which the 3.95 percent
14 applied. So, I took -- as being no particular magic
15 to how long that 3.95 would -- would last for. The
16 question was, whether you could reasonably meet --
17 meet the target.

18 MR. MATTHEW GHIKAS: So the logic was
19 not that it's already really long so we can just add
20 another couple of years?

21 MR. WILLIAM HARPER: Well, I -- I
22 didn't see two (2) more years as be -- as being that
23 material given that in the previous IFFs we -- we, you
24 know, the number had been moving around already.

25 MR. MATTHEW GHIKAS: Okay. So let's

1 look at the other aspect of your 'however', which is
2 that retained earnings are brought, in your words,
3 virtually within the range of the previous forecasts.
4 Okay?

5 MR. WILLIAM HARPER: Yes.

6 MR. MATTHEW GHIKAS: Now, if you can
7 turn over to Schedule 18, which is on the following
8 page, and if you go down to the retained earnings line
9 towards the bottom, and if we look under IFF14 --

10 MR. WILLIAM HARPER: Right. It's --

11 MR. MATTHEW GHIKAS: -- for example --

12 MR. WILLIAM HARPER: Okay.

13 MR. MATTHEW GHIKAS: -- retained
14 earnings in 2034 are five billion five hundred and
15 fifty-seven million (5,557,000,000)?

16 MR. WILLIAM HARPER: Yes.

17 MR. MATTHEW GHIKAS: Okay. And then
18 that compares with four billion six hundred and
19 nineteen million (4,619,000,000) in IFF16, with
20 interim and update, correct? With the Manitoba Hydro-
21 15 rate increase.

22 MR. WILLIAM HARPER: Right. It
23 doesn't -- this does not incorporate the 3.95 percent
24 for -- for the for the additional years that we just
25 discussed in that paragraph.

1 MR. MATTHEW GHIKAS: Okay. And so
2 that's \$900 million lower, correct?

3 MR. WILLIAM HARPER: That's correct.

4 MR. MATTHEW GHIKAS: And so in the
5 case of IFF15, we have 7.4 billion in IFF15, as
6 compared to 4.619 billion in update with interim,
7 correct?

8 MR. WILLIAM HARPER: That's correct.
9 Okay.

10 MR. MATTHEW GHIKAS: So that's a
11 deterioration of over 2.7 billion?

12 MR. WILLIAM HARPER: Right, in -- yes.

13 MR. MATTHEW GHIKAS: Okay. And so
14 you're virtually within the range, as you put it, the
15 -- that's based on 4.6 billion being virtually within
16 the range of 5.57 to 7.4 billion?

17 MR. WILLIAM HARPER: No. And that's
18 the point I was making just a -- well, this last
19 column is based on the HM15 plan, which, if you read,
20 the 3.95 percent rate increases stopping in 2029,
21 whereas the other plan discussed in the previous page
22 had the 3.95 percent extending all the way through to
23 2033/'34. That's what gives you the additional
24 revenues.

25 And when I looked at that particular

1 for -- forca -- I can't remember of the top of my head
2 -- when I looked at the retained earnings arising out
3 of that extended period of the 3.95 percent changes --
4 rate changes, that -- that's what brought the retained
5 earnings up to within the range of the previous IFFs.

6 MR. MATTHEW GHIKAS: So you would have
7 to have two (2) more years at three point nine five
8 (3.95) to get it up into that ran -- or sorry, five
9 (5) more years of three point nine five (3.95) to get
10 it up into that range?

11 MR. WILLIAM HARPER: Yes. And that's
12 what the other forecast called for, that's --

13 MR. MATTHEW GHIKAS: Okay.

14 MR. WILLIAM HARPER: -- that's
15 correct. Or if you compare it with IFF14, that
16 extended the three point nine five (3.95) all the way
17 to thirty (30) -- to 2031. It would only be -- it
18 would be a shorter period of time that you would have
19 to have that three point nine five four (3.954).

20 MR. MATTHEW GHIKAS: But in the
21 absence of those five (5) more years of three point
22 nine fives (3.95s), you would be a billion dollars
23 below the bottom end of that range?

24 MR. WILLIAM HARPER: Or three (3)
25 years, depending on which IFF you're comparing with.

1 MR. MATTHEW GHIKAS: Okay. Now,
2 you've concluded in your concluding passage on the
3 previous page, as a result of those -- as a result --
4 even the recently updated IFF16 does not appear to
5 present a fundamental change in the financial outlook
6 of the Corporation. So that's your ultimate
7 conclusion?

8 MR. WILLIAM HARPER: Yes, it is.

9 MR. MATTHEW GHIKAS: And when you
10 reach that conclusion, you did it without performing
11 any assessment of whether this acknowledged
12 deterioration presents a fundamental change in the
13 financial outlook from the perspective of the capital
14 markets, correct?

15 MR. WILLIAM HARPER: No, I was just
16 doing it with the previous forecast because the
17 statement in Manitoba Hydro's application was it had
18 been a significant change in outlook from the previous
19 GRA, which was IFF14.

20 MR. MATTHEW GHIKAS: In order to know
21 whether it's significant or not significant, Mr.
22 Harper, you have to consider the question 'significant
23 to whom right', right?

24 MR. WILLIAM HARPER: Right. Right.
25 And within the context of the statement in Manitoba

1 Hydro's application, it was significant change from
2 the previous out -- from the previous outlook in -- in
3 the last GRA. That's -- that's the point that I was -
4 - that's the statement I was taking to measure whether
5 things had significantly changed or not.

6 MR. MATTHEW GHIKAS: Right. And you -
7 - you weren't retained to opine on whether or not the
8 -- the financial metrics and the business condition
9 that Manitoba Hydro finds itself in, how that would be
10 viewed by the capital markets, correct?

11 MR. WILLIAM HARPER: No, that -- that
12 was more the retainer of Morrison Park.

13 MR. MATTHEW GHIKAS: And --and
14 certainly, sir, you haven't worked for an investment
15 bank, or have been accepted an -- an expert in cost of
16 capital matters either, correct?

17 MR. WILLIAM HARPER: That's correct.

18 MR. MATTHEW GHIKAS: Okay. And --
19 now, from a utility perspective, the -- it appeared
20 for your CV, that none of your industry experience was
21 in the treasury department of a utility, correct?

22 MR. WILLIAM HARPER: I've never worked
23 in the treasury department of utility.

24 MR. MATTHEW GHIKAS: And your degree
25 is in economics and not finance?

1 MR. WILLIAM HARPER: That is correct.

2 MR. MATTHEW GHIKAS: Okay. And I see
3 your experience at the utility, as I read it, it was
4 in that Department of Regulatory and Rates, as opposed
5 to Finance, for example?

6 MR. WILLIAM HARPER: Well -- well --
7 actually amusingly enough my first five (5) years
8 wasn't Finance, but the particular area I was working
9 was not a directly financially related area. It had
10 to do a cost of service. We just happen to be part
11 finance branch.

12 MR. MATTHEW GHIKAS: Okay.

13 MR. WILLIAM HARPER: I just want --
14 wanted to clar -- clarify what you meant by your
15 question.

16 MR. MATTHEW GHIKAS: No, that's fair
17 enough. You were focused on the -- the regulatory
18 aspect of things, rather than the running the business
19 type of things.

20 MR. WILLIAM HARPER: Yes, I was not
21 involved at all in the treasury function of the
22 Utility.

23 MR. MATTHEW GHIKAS: Okay. Now...

24

25 (BRIEF PAUSE)

1 MR. MATTHEW GHIKAS: Right. Now, if
2 we -- sorry about that -- if we turn to slide 9, for
3 example. And just, very quickly, coming back to this
4 EBITDA to interest calculation.

5 So in this -- in this context, it's
6 averaged over a ten (10) year period, correct?

7 MR. WILLIAM HARPER: That's correct.

8 MR. MATTHEW GHIKAS: Okay. And you'd
9 agree with me that, you know, when you average a
10 metric like this it removes any trend from the metric?

11 MR. WILLIAM HARPER: Yes, it does.

12 MR. MATTHEW GHIKAS: Okay. And -- and
13 so the -- and favourable metrics in one (1) year would
14 offset unfavourable ones in other years, and so on?
15 Is --

16 MR. WILLIAM HARPER: I -- I think
17 that's a bit different from the question of a trend.
18 A trend assumes -- it means it's continually going the
19 same direction, where if it's going up and down that's
20 not a trend.

21 MR. MATTHEW GHIKAS: No. But -- but
22 what it does is it prevents you from looking at when
23 the low point is or when the high point is in that
24 particular ten (10) year period, or example.

25 MR. WILLIAM HARPER: That's correct.

1 MR. MATTHEW GHIKAS: Okay. Now, as I
2 understood your presentation this morning, Mr. Harper,
3 your process for arriving at your ultimate conclusion
4 was to look at the metrics as a whole, apply your
5 judgement as you referred to, and look at whether some
6 were going up and some are going down, versus whether
7 they were consistently going down.

8 Did I summarize that correctly?

9 MR. WILLIAM HARPER: Well, I -- I
10 think it was a matter -- the two (2) previous IFFs est
11 -- established a range, and the question, in my mind
12 then, was: Are the metrics produced by this
13 particular IFF, when it's been revised to reflect the
14 -- the, you know, the rate -- rate plan from -- from
15 the last interim rate increase forecast, do -- do the
16 results fall within the range or do they fall outside
17 of the range?

18 If they all fall with -- within the
19 range, then the answer seems to me to be fairly
20 straightforward. If -- if the -- some of them start
21 falling outside the range, that -- that --
22 particularly, in this particular case, what happened
23 was some of them fell outside the range, but it was
24 above the range; some of them fell outside the range,
25 but they were below the range.

1 So, in my mind, you had somewhat of a
2 balanced result. The -- the capital coverage was
3 below, the EBITDA was -- was above, the debt-equity
4 ratio was -- was -- was roughly in -- in line.

5 How do you jud -- judge those? And as
6 you say, I'm -- I'm not a fin -- finance expert. I
7 looked at it from the perspective of, to a large
8 extent, let's give relative and equ -- equal weighting
9 to all of them and say has there been a change.

10 When I saw Manitoba Hydro's direct
11 testimony and the fact that they indicated where I
12 should put the most attention, if I'm trying to look
13 at these three (3), on the debt ratio. The fact that
14 it fell within the range, sort of, almost added extra
15 comfort to the -- to the conclusions that I was
16 reaching.

17 MR. MATTHEW GHIKAS: Okay. So I think
18 you've answered my question there. But what -- it --
19 you didn't apply in your analysis any assessment of
20 which metrics were more important or less important
21 than others, correct?

22 MR. WILLIAM HARPER: No, as you say,
23 I'm not a -- I'm not a fin -- finance expert, and so I
24 -- I don't -- I wasn't about to apply a judgment as to
25 which one was more important and which one was less

1 important.

2 MR. MATTHEW GHIKAS: Now, you did
3 reach your conclusion that there hasn't been a
4 fundamental change, without referencing Manitoba
5 Hydro's absolute levels of debt, correct?

6 MR. WILLIAM HARPER: That's correct.

7 MR. MATTHEW GHIKAS: And there's --
8 there's no mention of absolute levels of debt in your
9 conclusion. Or, similarly, in Schedule 18 on page 33,
10 where you summarize it, you don't include a line for
11 absolute levels of debt, correct?

12 MR. WILLIAM HARPER: That's correct.

13 MR. MATTHEW GHIKAS: I assume it
14 wouldn't be your contention that the absolute amount
15 of debt is unimportant to the financial well-being of
16 the utility?

17 MR. WILLIAM HARPER: No, it isn't.
18 And actually, I -- when I was looking at this, I was
19 looking at the Manitoba Hydro's application in the
20 discussion of the various financial metrics, that
21 particular tab, there's lots of graphs on debt equity
22 ratio, there's lots of graphs on EBITDA, there's lots
23 of graphs on cash flow.

24 I don't recall there being a graph in
25 there on -- on debt level, so to a -- to a large

1 extent I took from that what I understood to be the
2 financial metrics that Manitoba Hydro was using, which
3 were those three (3) issues that -- act -- actually I
4 don't think that chapter has much of a discussion on
5 debt until you get to about the last page, if I can
6 recall, subject check; I'm going from memory. But I
7 didn't see it being highlighted in -- in that
8 particular section of the application.

9 MR. MATTHEW GHIKAS: Well, I don't
10 think we should get into weighting the relative
11 importance on -- of things, in terms of how much pages
12 you devote to them, based on your own evidence, sir.

13 MR. WILLIAM HARPER: Okay.

14 MR. MATTHEW GHIKAS: The -- the -- you
15 would agree with me just -- aside from what you have
16 said there, despite that, you'd agree with me that a
17 prudent utility manager managers (sic) a -- a prudent
18 utility -- a prudent utility management would require
19 consideration, not just to the capital structure, but
20 also absolute levels of -- of indebtedness, correct?

21 MR. WILLIAM HARPER: I'm going to say
22 absolute levels of debt is something they're going to
23 look at. I think the absolute level of debt is
24 obviously going to be, to some extent, a function of
25 the size of the utility and the total value of the

1 assets that -- that utility has, and that things like
2 the debt-equity ratio have -- have helped to put the
3 absolute level of debt into some context.

4 MR. MATTHEW GHIKAS: Okay. And a high
5 -- higher lev -- exposure -- higher levels of debt
6 increase interest payments, other things being equal?

7 MR. WILLIAM HARPER: Other -- all
8 other things being equal, yes.

9 MR. MATTHEW GHIKAS: Yeah. And high -
10 - it -- it also increases exposure to interest rate
11 risk, other things being equal?

12 MR. WILLIAM HARPER: If you were
13 assuming the same debt -- debt management or debt
14 retirement profile and you had higher levels of debt,
15 then clearly you have more debt that you have to
16 refinance each year, so yes.

17 MR. MATTHEW GHIKAS: And interest
18 payments are a real call on cash flows, and an
19 obligation even in a period of financial distress
20 correct, yes?

21 MR. WILLIAM HARPER: Yes. And you
22 would expect that the cost of borrowing could well be
23 impacted by the financial position of the company?

24 MR. WILLIAM HARPER: Yes. I guess the
25 financial position of the company would itself take

1 into account a myriad of considerations, not just the
2 absolute level of debt, but yes.

3 MR. MATTHEW GHIKAS: Okay. And will
4 you accept, subject to check, that net debt, with the
5 3.95 percent rate path, with twenty (20) year debt
6 terming, is \$3.4 billion higher than the NFAT
7 forecast?

8 MR. WILLIAM HARPER: I'll except that.
9 I -- I think I'd be more interested in knowing what
10 the difference was, relative to the -- say the net
11 level debt at the last GRA.

12 MR. MATTHEW GHIKAS: Okay. Well,
13 let's --

14 MR. WILLIAM HARPER: Yeah. But, you
15 know, I'll -- I'll except that. The NFAT was a long
16 time ago.

17 MR. WILLIAM GANGE: Fair enough. So
18 would you accept, subject to check, that -- that the -
19 - it is \$1.8 billion higher than forecast in MH14?

20 MR. WILLIAM HARPER: I'll accept --

21 MR. MATTHEW GHIKAS: IFF -- IFF14.

22 MR. WILLIAM HARPER: I'll accept that,
23 yes.

24 MR. MATTHEW GHIKAS: And you'd accept,
25 subject to check, that it's \$2.5 billion higher than

1 IFF15? Subject to check.

2 MR. WILLIAM HARPER: Sorry, this is
3 which year you're looking at? I -- I just want to --

4 MR. MATTHEW GHIKAS: At -- at --

5 MR. WILLIAM HARPER: -- actually, I'm
6 interested in going back and looking at the material
7 that the counselor from -- from MIPUG had -- had
8 given, which seemed -- seemed to me to actually
9 contain those numbers. And so I was wondering whether
10 that was a good context in which the --

11 MR. MATTHEW GHIKAS: If -- if you'd
12 like to go there I could. I think it was MH93, was
13 the --

14 MR. WILLIAM HARPER: Yes, it was.

15 MR. MATTHEW GHIKAS: -- was the
16 exhibit.

17 MR. WILLIAM HARPER: Yes.

18 MR. MATTHEW GHIKAS: If we could have
19 that, Diana.

20

21 (BRIEF PAUSE)

22

23 MR. MATTHEW GHIKAS: Yeah, I don't
24 believe that includes the model --

25 MR. WILLIAM HARPER: Yeah,

1 unfortunately --

2 MR. MATTHEW GHIKAS: -- that you've
3 been using.

4 MR. WILLIAM HARPER: -- it -- it
5 doesn't. There's so many scenarios out there that it
6 doesn't include the two (2) you were trying to
7 compare.

8 MR. MATTHEW GHIKAS: Yeah. M-hm.

9 MR. WILLIAM HARPER: I'm sorry, I'm
10 just trying to some context around it but --

11 MR. MATTHEW GHIKAS: I -- I completely
12 understand. And I had actually made a note of it
13 myself when M. Hacault was -- was talking himself.

14 So I'll ask the question again, and you
15 can take it subject to check, perhaps.

16 DR. BYRON WILLIAMS: And, Mr. Ghikas,
17 I'm fine with this conversations through the
18 Chair to you. If you want to just provide the sources
19 to Mr. Harper off-line, just -- I think that'll make
20 things move a little smoother, if that's fine with
21 you.

22 MR. MATTHEW GHIKAS: That would be
23 absolutely fine, Mr. Chairman. And thank you, Dr.
24 Williams.

25

1 CONTINUED BY MR. MATTHEW GHIKAS:

2 MR. MATTHEW GHIKAS: So, subject to
3 check, it would be 8 -- \$1.8 billion higher than MH14
4 at the peak year?

5 MR. WILLIAM HARPER: Okay. And -- and
6 this would be in comparison with the MH16 interim with
7 the update at the three point nine five (3.95)?

8 MR. MATTHEW GHIKAS: Correct.

9 MR. WILLIAM HARPER: Okay. I'll take
10 that, yes.

11 MR. MATTHEW GHIKAS: Thank you. And
12 the same comparison. It is at -- but 2.5 billion
13 higher than IFF --

14 MR. WILLIAM HARPER: Fifteen (15).

15 MR. MATTHEW GHIKAS: -- 15, subject to
16 --

17 MR. WILLIAM HARPER: Check, yeah.

18 MR. MATTHEW GHIKAS: -- check?

19 THE CHAIRPERSON: I think you said,
20 less than two point two (2.2). So is -- is it two
21 point tow (2.2) or two point five (2.5)? Is it five
22 (5)?

23 MR. MATTHEW GHIKAS: Two point five
24 (2.5).

25 THE CHAIRPERSON: Okay.

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

3

4 CONTINUED BY MR. MATTHEW GHIKAS:

5 MR. MATTHEW GHIKAS: All right. Now
6 if we can go to slide 6, please.

7 So at slide 6, you'll see -- this is
8 where your comparing -- comparing forecast to
9 actuals again, right?

10 MR. WILLIAM HARPER: That's correct.
11 And we see you've included a line for revenues, right?

12 MR. WILLIAM HARPER: Yes.

13 MR. MATTHEW GHIKAS: And there's a
14 line for net income?

15 MR. WILLIAM HARPER: Yes.

16 MR. MATTHEW GHIKAS: And if we can go
17 to slide 8, Diana, please.

18 And so this is comparing the forecast
19 to forecast over a two (2) year period, correct?

20 MR. WILLIAM HARPER: That's correct.

21 MR. MATTHEW GHIKAS: And you'll see we
22 have a revenues' line, correct?

23 MR. WILLIAM HARPER: Yes.

24 MR. MATTHEW GHIKAS: And there's a net
25 income line, as well?

1 MR. WILLIAM HARPER: Yes. And that --

2 MR. MATTHEW GHIKAS: Now if we can go
3 to slide 9, Diana.

4 And this is comparing it over a ten
5 (10) -- a forecast over a ten (10) year period, right?
6 Yes, Mr. Harper?

7 MR. WILLIAM HARPER: Yes. I'm sorry.

8 MR. MATTHEW GHIKAS: That's okay. And
9 again we see there's a revenues' line at the top?

10 MR. WILLIAM HARPER: Yes.

11 MR. MATTHEW GHIKAS: And there's a
12 line for net income?

13 MR. WILLIAM HARPER: Yes.

14 MR. MATTHEW GHIKAS: And in slide 10 -
15 - this is comparing the forecast over the longer
16 seventeen (17) year period, and, again, you have a
17 revenues' line?

18 MR. WILLIAM HARPER: Yes.

19 MR. MATTHEW GHIKAS: And you have a
20 net income line?

21 MR. WILLIAM HARPER: Yes.

22 MR. MATTHEW GHIKAS: Okay. And so if
23 we can go to slide 12.

24 This is where we're beginning to look
25 at the comparison of IFF14 and IFF15 with the current

1 IFF16 with update forecast. And you'd see that the
2 lines for revenues and net income have disappeared,
3 right?

4 MR. WILLIAM HARPER: Yes, it was a
5 matter of how much I could actually squeeze on this
6 slide, to be quit honest with you. And since I was
7 focusing on these financial metrics, I thought they
8 were the more important information to put on the
9 slide.

10 MR. MATTHEW GHIKAS: I see. And if we
11 -- we don't have to go there, if we -- if you want,
12 but in your Schedule 18 on page 33, if you -- if you
13 like, right, you'd agree with me you've summarized the
14 key financial outlook, and there's no reference to net
15 income there either, is there?

16 MR. WILLIAM HARPER: No -- no, there
17 isn't. Again, it was -- it was a matter of how much
18 information you can squeeze on a page.

19 MR. MATTHEW GHIKAS: Okay. Now, you
20 indicated -- if we can go to slide 16, Diana. Sorry
21 to bounce around.

22 You indicated earlier this morning that
23 your source was Appendix 1.3 of the rebuttal of
24 Exhibit MH-54, if I recall correctly, Mr. Harper.

25 MR. WILLIAM HARPER: I believe so,

1 yes.

2 MR. MATTHEW GHIKAS: Okay. And you'd
3 agree with me that Appendix 1.3 also includes revenues
4 and net income information?

5 MR. WILLIAM HARPER: Yes, I believe it
6 was a full IFF, if I'm not mistaken, so it would
7 include both.

8 MR. WILLIAM GANGE: And will you
9 accept, subject to check, that the forecast revenues
10 have declined 2.9 billion between IFF15 and 16 with
11 update over ten (10) years?

12 MR. WILLIAM HARPER: Yes, I -- I -- it
13 -- they would have declined just base -- based on the
14 assumptions, and I'll accept your number, yes.

15 MR. MATTHEW GHIKAS: Okay. And
16 subject to check, that would represent a 10 percent
17 deterioration in forecast revenues over ten (10)
18 years?

19 MR. WILLIAM HARPER: Yes.

20 MR. MATTHEW GHIKAS: And over that ten
21 (10) year forecast net income went from positive 578
22 million in IFF15, down to negative 378 million in
23 IFF16 with update?

24 MR. WILLIAM HARPER: I'm sorry, and
25 where's the second number coming from?

1 MR. MATTHEW GHIKAS: Negative 378
2 million in IFF16 with update. Net income.

3 MR. WILLIAM HARPER: Net income, that
4 -- I'm trying to remember -- trying to get --
5 understand what that number is supposed to represent.
6 I'm sorry, is it the --

7 MR. MATTHEW GHIKAS: Ten (10) years.

8 MR. WILLIAM HARPER: Ten (10) year.
9 Okay. I'm -- I'm -- okay, that -- I'll -- I'll accept
10 that. I -- I don't have the numbers immediately in
11 front of me, but I'll accept what you're saying.

12 MR. MATTHEW GHIKAS: And -- and
13 mathematically that would be a 165 percent decline
14 over ten (10) years?

15 MR. WILLIAM HARPER: Mathematically, I
16 think yes.

17 MR. MATTHEW GHIKAS: Okay. And that
18 decline that we would be looking at there, that would
19 be before adjustments for the accounting changes on
20 depreciation methodology and overheads capitalized
21 that we talked about earlier, correct?

22 MR. WILLIAM HARPER: Yes. I believe
23 so, yes.

24 MR. MATTHEW GHIKAS: Okay. And
25 subject to check, the deterioration would increase to

1 \$1.16 billion over the ten (10) years?

2 MR. WILLIAM HARPER: Subject to check,
3 I -- I -- relate the number.

4 MR. MATTHEW GHIKAS: And -- and there
5 would also be no dul -- no adjustment in that at all
6 for the delayed service dating kiosk that we referred
7 to previously, correct?

8 MR. WILLIAM HARPER: Wouldn't be
9 adjustments for any of the other assumptions that have
10 been incorporated in the forecast.

11 MR. MATTHEW GHIKAS: Okay. Thank you.
12 Those are my questions, Mr. Harper. I appreciate your
13 time. Thank you, Mr. Chairman.

14 THE CHAIRPERSON: Thank you, Mr.
15 Ghikas. We will -- we'll take a break until 3:15.
16 Thank you.

17

18 --- Upon recessing at 2:58 p.m.

19 --- Upon resuming at 3:18 p.m.

20

21 THE CHAIRPERSON: Okay, if we can
22 resume. Ms. Steinfeld...?

23

24 CROSS-EXAMINATION BY MS. DAYNA STEINFELD:

25 MS. DAYNA STEINFELD: Thank you, Mr.

1 Chair, and good afternoon, Mr. Harper, it's nice to
2 see you again and I'm pleased that every time you come
3 back before for the Board it's such a happy occasion
4 for you.

5 I'd like to start just with a question
6 of clarification on your slide 21, please, Diana. And
7 at the bottom of this slide we see the information
8 about the Conawapa regulatory account; is that
9 correct, Mr. Harper?

10 MR. WILLIAM HARPER: That's correct.

11 MS. DAYNA STEINFELD: And to summarize
12 what I think was your evidence this morning, you are
13 recommending to the Board that a thirty (30) year
14 amortization period be used and -- and the main reason
15 for that is because Conawapa was tied to the NFAT and
16 -- and the Board's decision in that proceeding?

17 MR. WILLIAM HARPER: Well, I guess --
18 I almost use that more as an ancillary reason. I -- I
19 think as I -- as I said in my presentation, I think
20 the -- obviously putting \$380 million into the
21 financial statement in -- in one year is -- requires --
22 - it requires some adjustment. It's a significant
23 amount of money, therefore, you're looking at it from
24 a rate smoothing perspective. It's a matter of
25 judgment. Manitoba Hydro had proposed the thirty (30)

1 years and it seemed -- it seemed reasonable to me.

2 And I was trying to rationalize rate
3 smoothing is a matter of judgment, but what could you
4 think about in terms of why it occurred and it wasn't
5 the main reason but it seemed to be, in my mind, it
6 rang as a reasonable way of looking -- looking at it.
7 It isn't because -- it isn't because I'm trying to
8 match cost with benefits or anything from that
9 perspective. It's more -- it looked -- looked like a
10 reasonable period over which to amortize it given how
11 the cost arose in the first place.

12 MS. DAYNA STEINFELD: And just to pick
13 up on your point about matching costs with benefits,
14 can you just briefly explain to the Board what the
15 \$380 million here represents?

16 MR. WILLIAM HARPER: Well, in -- in my
17 -- my understanding there have been costs spent to
18 date on sort of the development and the planning of
19 the -- of the Conawapa station, and that when -- when
20 -- when the decision was -- when the decision was made
21 by the Board and -- and then accepted by government,
22 to my understanding, and implemented, you've got costs
23 you've spent. You -- you can't continue to capitalize
24 them because there is no station that's planned to
25 come into service, and -- and therefore, normally from

1 -- from an accounting perspective they -- they would
2 get written off. And my understanding is the
3 accountants and strict accounting terms would say, you
4 write them off, the net income in the year in which --
5 which occurs. That -- that then becomes a matter of,
6 is that how you want to reflect it and treat it from a
7 regulatory and rate setting perspective.

8 MS. DAYNA STEINFELD: So they are
9 planning costs, but not costs associated with actually
10 building the asset?

11 MR. WILLIAM HARPER: Well, you know,
12 up to a certain point they -- they've been planning
13 costs probably -- I don't -- I don't know whether a
14 shovel was ever put in the ground for -- for -- for
15 Conawapa. I suspect not but there were costs involved
16 in -- in the planning, the design, moving forward
17 towards the construction of the station.

18 And I take that all subject to check
19 because I -- I sort of haven't been going through the
20 -- reviewing the details of what -- what was -- what's
21 the underlying 380 million. I just understood it was
22 some costs spent to date.

23 MS. DAYNA STEINFELD: And -- and fair
24 enough, Mr. Harper, but if -- if we assume largely or
25 entirely there are planning costs, you would agree

1 that there is no enduring value associated with the
2 \$380 million?

3 MR. WILLIAM HARPER: I think that's
4 why they're -- why they're being written off, yes.

5 MS. DAYNA STEINFELD: So if there's no
6 enduring value, is there a reason to spread it out
7 over thirty (30) years other than rate smoothing?

8 MR. WILLIAM HARPER: No, I -- I don't
9 believe so. It -- it is a matter of judgment unless
10 you want to think about it from the context I -- I
11 applied, but that isn't really a benefit matching
12 perspective. So no, I think it's a matter of just
13 this would be -- this would be a significant impact if
14 you were to -- if you were to put it through all in
15 one (1) year.

16 MS. DAYNA STEINFELD: And would
17 another way to look at it be to look at how long that
18 planning exercise lasted for and then use that as --
19 as the appropriate period to amortize the costs?

20 MR. WILLIAM HARPER: I -- I don't
21 think, no, because you're looking at the Board was
22 dealing with a plan as to how you're going to -- how
23 you're going to address the needs of Manitoba over a
24 future period of time and looking at alternative plans
25 and the Conawapa was spent as -- money was spent as

1 part of thinking that was the best way forward at the
2 time.

3 And in the decision to not proceed with
4 it, that's now view as -- that's the best way forward.
5 This is part of the costs of implementing that best --
6 best way forward plan, is the way I would look at it.

7 MS. DAYNA STEINFELD: And if didn't
8 take it all in one (1) year or write it off in a -- in
9 a single year, would you expect that there would be
10 negative net income in that year?

11 MR. WILLIAM HARPER: I would expect
12 there'd be negative income that year, yes.

13 MS. DAYNA STEINFELD: But then,
14 conversely, as -- in contrast to amortizing it over a
15 long period of time if you had negative net income in
16 the first year when you wrote it all off, would there
17 then be subsequent additional positive net income in
18 the following years?

19 MR. WILLIAM HARPER: Yes, there would
20 be. It -- it would be a one time hit. I guess it
21 would also be a one time hit on your ret -- retained
22 earnings, which would impact on your debt/equity ratio
23 as well.

24 MS. DAYNA STEINFELD: Okay, thank you,
25 Mr. Harper. Let's move on to cost of service study.

1 And here just -- just for our benefit, let's go to
2 slide 26 of your evidence.

3 And here, again, just to summarize, in
4 your evidence this morning you identified certain
5 refinements to the cost of service study that you said
6 would have minimal impact on the results and one (1)
7 of the examples on this slide is wind energy.

8 Is that correct?

9 MR. WILLIAM HARPER: Yes, and I -- I
10 think -- and that -- that was just acknowledging that
11 I think at the time that the cost of service study was
12 -- study was presented, the view was that wind energy
13 didn't have -- have any capacity benefit. It provided
14 energy to the system, but no capacity benefit and that
15 was the basis for the Board's recommendations as to
16 how it should be treated.

17 Manitoba Hydro, in this application,
18 has indicated that they now view there probably is
19 some capacity benefit to it. Probably not a lot, but
20 some and if you were to follow that cost/causation,
21 would you say, well, maybe we should have reflected on
22 and gone back and try to -- to propose maybe a
23 different treatment that does -- that does recognize
24 that capacity benefit.

25 But again, I think -- you're talking

1 about a very small amount of generation, fairly small
2 capacity benefit. And I think a lot of complexity in
3 terms of figuring out how you might actually want to
4 appropriately implement it.

5 MS. DAYNA STEINFELD: So putting aside
6 the areas where you say the impact would be minimal,
7 you do identify other areas that you say the Board
8 should look at?

9 MR. WILLIAM HARPER: Yeah. And I
10 think it's a matter combination of minimal plus the
11 complexity or the difficulty in actually implementing
12 it. And maybe that comes in -- yes, it's a matter of
13 not only minimal impact but what's the complexity of
14 trying to impact it -- implement it. I think, you
15 know, even if an impact is minimal, if you can change
16 it by changing two -- if you can impact it by -- if
17 you can implement, excuse me, by changing two lines of
18 computer code, the cost of the implementation is
19 pretty small.

20 MS. DAYNA STEINFELD: Thank you, Mr.
21 Harper. And -- and one of those areas where you --
22 you do think the Board should refine the cost of
23 service study is with the radial lines or what we
24 might also call nontariffable transmission?

25 MR. WILLIAM HARPER: Yes, that's

1 correct.

2 MS. DAYNA STEINFELD: And there --
3 your evidence is that, essentially, by definition
4 nontariffable transmission does not give rise to
5 export revenues?

6 MR. WILLIAM HARPER: Well, by -- by
7 definition nontariffable transmission facilities
8 aren't used in -- for -- for exports and, therefore,
9 the -- yes, that -- that's right. They aren't caused,
10 or help facilitate exports.

11 MS. DAYNA STEINFELD: And in this
12 proceeding Manitoba Hydro acknowledged that fact, that
13 nontariffable transmission is not used to facilitate
14 exports.

15 Are you aware of that evidence?

16 MR. WILLIAM HARPER: Yes, I am.

17 MS. DAYNA STEINFELD: And while
18 Manitoba Hydro agrees that that may call into question
19 how that area is treated in the cost of service study,
20 the evidence from Manitoba Hydro was that the impact
21 of making the change would be de minimus.

22 Do you agree with that?

23 MR. WILLIAM HARPER: If -- I -- I
24 don't have any reason to dispute that. Like I said, I
25 think actually inputting this recommendation is -- is

1 pretty -- is pretty simple and would -- would -- would
2 be consistent with -- with -- with the general
3 principles aligned with the Board.

4 MS. DAYNA STEINFELD: So while that
5 might be an area that like wind energy would have a
6 minor impact because it would be relatively simple to
7 implement, your recommendation is that the Board
8 should do so?

9 MR. WILLIAM HARPER: Yes, that's
10 correct.

11 MS. DAYNA STEINFELD: And just to
12 clarify the point that you made on your evidence about
13 generation outlet transmission, here as you indicate,
14 Manitoba Hydro says that they have performed the
15 review that you suggest.

16 Your concern is that there's no way to
17 test that; that the evidence of that review hasn't
18 been provided?

19 MR. WILLIAM HARPER: Well -- the
20 evidence of that review hasn't been provided and
21 probably more importantly, in reviewing -- in looking
22 at that review is the criterion, the basis they used
23 for making the decision consistent with the principles
24 that the Board set out in its cost of service decision
25 164/16.

1 If the two are the same, then yes, the
2 results are probably reasonable and everything's fine.
3 If there's a difference in the criteria -- which I
4 don't know if there was or not -- then -- then I think
5 one would have to look at it a little bit more
6 closely. But I don't know at this point in time and
7 that was my point.

8 MS. DAYNA STEINFELD: Mr. Harper, is
9 your recommendation that that evidence or analysis be
10 provided to this Board in the next GRA filing?

11 MR. WILLIAM HARPER: That -- that
12 would be one -- one way of addressing the issue from
13 my perspective, yes.

14 MS. DAYNA STEINFELD: Is there another
15 way that you would suggest would be appropriate?

16 MR. WILLIAM HARPER: No, I think
17 that's the easiest way.

18 MS. DAYNA STEINFELD: And you also
19 ident -- have identified in your evidence, areas of
20 additional study. And just to summarize as you
21 explained this morning, those are the allocation of
22 common costs, the service drop allocator, and the
23 treatment of primary and secondary distribution lines.

24 Is that correct?

25 MR. WILLIAM HARPER: That's correct.

1 MS. DAYNA STEINFELD: And while you've
2 identified that that further study should be
3 completed, the potential impacts of the results of
4 those studies would also be minor in terms of the
5 result of the cost of service?

6 MR. WILLIAM HARPER: Well, I think the
7 Board has directed that further study should be
8 completed on that. The question was put to me as to
9 what the impact would be and I think on the service
10 drops and the distribution, it's likely to be matter -
11 - there's -- there is a lot of common costs, and
12 that's the one that's the biggest uncertainty, in my
13 mind, as to what the impact of that would be.

14 Manitoba Hydro says they're very
15 satisfied with the -- with their current allocation.
16 If -- if all at the end of the day they do is confirm
17 that that's rea -- reasonable. That's fine. But if
18 they fundamentally went in and tried -- and looked at
19 -- looked at it and decided different allocation
20 method was appropriate, then that could change because
21 there's a lot of cost there, and they're going to all
22 the functions.

23 MS. DAYNA STEINFELD: And -- and
24 similarly, is your recommendation that those three (3)
25 areas of additional study be completed and filed with

1 the next General Rate Application?

2 MR. WILLIAM HARPER: Yes, I think
3 Manitoba Hydro has committed already to looking at the
4 service drop by the next application and I guess my --
5 my thought was that if we could wrap all three (3) of
6 them up we could put this to bed, if I can put it that
7 way.

8 MS. DAYNA STEINFELD: Fair enough, Mr.
9 Harper. I'm sure you're alone in this room in wanting
10 to put the cost of service study to bed. I think it's
11 interesting.

12 If we turn to -- if we move on from the
13 cost of service study and turn to your slide 32. I
14 don't propose to go into your evidence on marginal
15 cost in any further detail, but just a point of
16 clarification on this schedule that you've reproduced
17 here.

18 You're comparing the marginal cost to
19 the average revenue of each class. Why is average
20 revenue and not the energy rate in that comparison?

21 MR. WILLIAM HARPER: Oh, because I
22 think average was the same comparison that Manitoba
23 Hydro used in its org -- original application in tab 8
24 and I was just trying to replicate the same process
25 that they did.

1 If you'll recall in my conversation
2 during my presentation when I was talking about the
3 conservation rate, I did make specific reference to
4 the end rate for -- for residential.

5 The other -- other interesting problem
6 is is when you get outside of rate class that just
7 have an energy rate, you then have to somehow figure
8 out what you're going to do with -- with -- with the
9 demand charges as well and whether you're going to
10 roll that in somehow with the energy rate and look at
11 the two (2) of them, and how you're going to do that.
12 It becomes somewhat -- somewhat complex.

13 MS. DAYNA STEINFELD: Do you have a
14 view, Mr. Harper, as to which is the more appropriate
15 comparison between average revenue and the energy
16 rate?

17 MR. WILLIAM HARPER: Well, I think
18 it's the purpose. You're using it for -- for the
19 purpose you're using it for which is comparison with
20 cost of service results which is all costs then
21 probably this comparison is reasonable.

22 If you're trying to use it for purposes
23 of rate design and designing energy rates then -- then
24 then you want to be looking at the -- at the end use
25 energy rate. As I said, it becomes a little bit more

1 tricky when you start trying to use marginal cost to
2 design a -- larger customers rates also have a demand
3 charge.

4 MS. DAYNA STEINFELD: Thank you. We
5 can move on from this issue as well. Let's turn then
6 to your slide 27 and -- and I'd like to spend some
7 time talking to you about the calculation of the
8 revenue to cost coverage ratio.

9 And in your evidence you've told this
10 Board that Manitoba Hydro's approach to calculating
11 the revenue to cost ratios is reasonable; correct?

12 MR. WILLIAM HARPER: Well, I said on
13 that -- I went through -- I went through the three (3)
14 pieces and on -- and on that I believe it's
15 reasonable, yes.

16 MS. DAYNA STEINFELD: And if we can
17 maybe just quickly flip to your slide 24.

18 Just to take this make a step, here
19 you've indicated that your reading of Order 164/16 is
20 -- is that the Board's determination was that cost
21 causation is the sole principle that should be used in
22 establishing the appropriate cost of service
23 methodology?

24 MR. WILLIAM HARPER: Yes, that -- that
25 was one of the things I took from the Board's Order.

1 MS. DAYNA STEINFELD: And is it also
2 your understanding from Order 164 of '16 that the
3 Board determined that export revenues should be
4 allocated on class shares of generation and
5 transmission?

6 MR. WILLIAM HARPER: Yes, it's my
7 understanding, yes.

8 MS. DAYNA STEINFELD: And I can take
9 you to the reference if that's helpful, but if you
10 recall, was it also your understanding that part of
11 the Board's reasoning was that the large projects in
12 that area were justified based on the use of exports
13 to lower the costs of the assets?

14 MR. WILLIAM HARPER: I don't think
15 that was quite my -- my understanding was more the
16 fact it was just transmission and generation that were
17 used to support exports. We -- we needed the
18 generation to produce the power. We needed the
19 transmission to get to the border and across the
20 border and so those -- those were the facilities that
21 were used to -- to --- to support the exports and,
22 therefore, that's how the matching should be done.

23 MS. DAYNA STEINFELD: And just to be
24 fair to you, Mr. Harper, perhaps we'll turn to PUB
25 Exhibit 42-5 which is Board counsel book of documents,

1 volume 5 and page 55 of that document.

2 And if we just scroll down to the
3 middle highlighted section there, Mr. Harper, I take
4 your point that the primary reason related to the
5 cost/causation of the assets that are giving rise to
6 the revenues, but we also see here in the middle of
7 this paragraph comment from the Board on the economic
8 justification of the projects and -- and the use of
9 export revenues to lower the cost of new generation
10 and transmission assets.

11 Do you see that there?

12 MR. WILLIAM HARPER: Yes. I -- I see
13 the Board's statement here, yes.

14 MS. DAYNA STEINFELD: And so with --
15 with those points in mind, do you accept and -- and
16 Mr. Bowman has put this position forward in this
17 proceeding that it would be consistent with Order 164
18 of '16 to treat export revenues as a reduction to
19 class costs?

20 MR. WILLIAM HARPER: I think -- I
21 guess that's one reasonable that -- as I said in my
22 presentation, that's one reasonable way of doing it.
23 I -- I view export revenues as being an extreme
24 example of sources of revenue that can come from other
25 -- from other activities other than selling power to -

1 - to -- to domestic customers.

2 Most utilities have miscellaneous
3 revenues coming from pole rentals, a whole host --
4 host of things. Most of them don't have one category
5 that's the size and magnitude of -- of export revenues
6 here, but it -- it's of a similar ilk. You've got
7 assets they're using and it's a matter of how -- how
8 you want to treat it. And like I said, I find the
9 treatment is mixed across two different cost -- cost
10 of service studies and -- and -- and so therefore, I
11 don't -- I don't think there's one right way of doing
12 it and one wrong -- wrong way of doing.

13 As I said, I think there's a -- what's
14 more important is that you do it the same way all the
15 time so you aren't looking at numbers from one to the
16 -- one to the other and some of the changes -- due to
17 changes in the -- in the way you calculate it.

18 MS. DAYNA STEINFELD: And, Mr. Harper,
19 I may -- I may come back to some of those points but
20 just picking up on what you said at the end there that
21 in your evidence you say that a reason for your
22 assessment that Manitoba Hydro's approach to
23 calculating the ratio is reasonable is because it's
24 consistent.

25 Is that a fair summary?

1 MR. WILLIAM HARPER: Yes, I think that
2 -- that's a fair summary.

3 MS. DAYNA STEINFELD: And would you
4 agree with me that Order 164 of '16 introduced
5 significant changes to the cost of service study
6 methodology in, for example, the area that we're
7 looking at now, that the treatment of export revenues
8 would be one example?

9 MR. WILLIAM HARPER: Yes, I would.

10 MS. DAYNA STEINFELD: And so would it
11 fair, Mr. Harper, that given the change in the cost of
12 service study methodology resulting from the Board's
13 review, wouldn't now be an appropriate time to
14 implement a new method of -- of calculating the
15 ratios?

16 MR. WILLIAM HARPER: Well, I guess --
17 I guess maybe if you think about it this way. If
18 you've changed the methodology -- if you want to
19 change the way you calculate, timing the two so they
20 coincide, if -- if you're going to both then it's
21 probably better to do them both at -- at the same
22 time, I would agree with that, yes.

23 MS. DAYNA STEINFELD: And maybe just
24 for -- to put some context on our discussion, Diana,
25 if you could flip ahead to page 57.

1 And, Mr. Harper, this chart here is
2 just showing the -- the two (2) different methods of
3 calculating the revenue to cost coverage ratios. The
4 yellow column that's on the left side, is the
5 methodology that Manitoba Hydro uses where export
6 revenues are added to the numerator as an addition to
7 revenues. And the column to the right of that is the
8 methodology that Mr. Bowman has endorsed where export
9 revenues are used as a cost reduction.

10 Do you accept --

11 MR. WILLIAM HARPER: -- use a
12 numerator, yes.

13 MS. DAYNA STEINFELD: -- that? Just a
14 -- I'm not going to get in to detail with -- but just
15 to put some context on that discussion, you -- you've
16 indicated already that there are -- you don't -- you
17 don't have a view as to which is preferable.

18 Do you have a view as to which
19 methodology is more technically correct in a cost of
20 service study?

21 MR. WILLIAM HARPER: No, I don't.
22 Actually the -- no, I don't. Like I said, I've seen
23 it done both ways. I -- I think the -- may be the
24 important corollary to all of this discussion is that
25 if the way you calculate the simple ratio can change

1 the numbers like up to 3 percentage points, if -- or 3
2 or 4 percentage points, maybe this says something
3 about the zone of reasonableness you're used to
4 applying and looking at how you want to interpret the
5 results.

6 MS. DAYNA STEINFELD: That's a
7 wonderful seaway because that's exactly where I was
8 going to take you next was the zone of reasonableness
9 so let's go there.

10 And you've already had a fairly lengthy
11 discussion about this issue with Mr. Hacault and
12 others. Is your evidence that the zone of
13 reasonableness should be 90 to 110 percent as I
14 believe Manitoba Hydro has suggested, or, are you
15 suggesting that the Board should just be flexible
16 beyond the 95 to 105?

17 MR. WILLIAM HARPER: I think my -- my
18 -- my evidence was more they should be flexible and
19 since there were two (2) numbers in play, I picked the
20 other number that's most commonly used as -- as --
21 which is the 90/110. I think -- like I said, I think
22 -- I think the issue of flexibility I think is
23 probably what I was speaking to more -- or thinking
24 about more in my evidence than holding down on a
25 particular number.

1 And like I said, I think that would be
2 -- that would be for a, hopefully, a short period of
3 time till this is all put to bed.

4 MS. DAYNA STEINFELD: Right, so what
5 you've zeroed in on on this issue is that there are
6 still certain outstanding cost of service issues, and
7 -- and that's what makes it appropriate to have
8 flexibility around the zone of reasonableness?

9 MR. WILLIAM HARPER: Yes.

10 MS. DAYNA STEINFELD: But we've
11 already discussed, Mr. Harper, that some of the issues
12 you've identified as outstanding are, in your words,
13 minor; and others are also minor but would be more
14 simple to implement.

15 So on the whole, the outstanding
16 issues, this would be fair to say, are -- are minor in
17 impact?

18 MR. WILLIAM HARPER: Like I said to
19 you earlier, the only exception I draw on that is --
20 is the issue, the com -- common cost allocation which
21 -- which the Board directed Manitoba Hydro also look
22 at. In my mind that's somewhat of a question mark
23 because I don't know what -- what -- what they're
24 going to do on that and the num -- all those involved
25 are fair -- are a fair bit larger than when we're

1 talking about radial lines or wind energy.

2 MS. DAYNA STEINFELD: And so on -- on
3 balance then would it be fair to say that the
4 outstanding issues -- resolving those outstanding
5 issues, the impacts would likely be negligible, aside
6 for --

7 MR. WILLIAM HARPER: Well, I -- total
8 --

9 MS. DAYNA STEINFELD: -- costs?

10 MR. WILLIAM HARPER: -- excuse me, I
11 should of let you complete -- completed your question.
12 I apologize.

13 MS. DAYNA STEINFELD: I was simply
14 giving the accommodation to you that you've made that
15 common costs may have --

16 MR. WILLIAM HARPER: Yeah, that's --
17 that's the one area that is uncertainty to me, yes.

18 MS. DAYNA STEINFELD: So putting aside
19 that area, the remaining outstanding issues, the
20 impacts of resolving those issues would likely be
21 negligible in terms of the results?

22 MR. WILLIAM HARPER: Well, we -- we --
23 yeah, you know, I know what -- what you mean by neg --
24 by negligible. It's -- you may be talking about a
25 percentage point at the end of the day or something

1 like that, yeah.

2 MS. DAYNA STEINFELD: And so, Mr.
3 Harper, I'm -- I'm hoping that you can help the Board
4 understand how they should reconcile the fact that
5 resolving the majority of the currently outstanding
6 cost of service study issues may lead to minor impacts
7 in terms of the results with your evidence that there
8 should be flexibility and the zone of reasonableness?

9 How do -- how do those things sit
10 together?

11 MR. WILLIAM HARPER: Well, I think
12 what I was saying is that there is a zone of
13 reasonableness once you've established your
14 methodology. And we're getting close to having
15 established it. We haven't done precisely and, you
16 know, the Board has a choice to use whatever zone of
17 reasonableness range it wants but if we -- we go down
18 the path, and assuming they continue with the 105
19 percent, well then, there's still -- there still -- we
20 aren't too sure it's 105 percent of what until we
21 finish this exercise and that's where I was talking
22 about a bit of flexibility.

23 You aren't too sure what your 105
24 percent or 100 -- 100 -- 95, 100 percent around, then
25 maybe you need a bit of flexibility in the -- in the

1 percentages themselves.

2 MS. DAYNA STEINFELD: Would it be
3 appropriate for that flexibility to be something less
4 than Manitoba Hydro's proposed range, given that
5 you've suggested that it might be a 1 percent impact
6 to resolve these largely minor issues? Are we talking
7 about --

8 MR. WILLIAM HARPER: Yeah.

9 MS. DAYNA STEINFELD: -- 94 percent to
10 106 percent?

11 MR. WILLIAM HARPER: No, I -- I just -
12 - all -- all I was trying to highlight was the fact
13 that we aren't quite there yet, and so some of the
14 range would be the reason why I think we're talking to
15 -- about -- about a shorter period of time than if we
16 can complete these studies by the next GRA. This is
17 not something that is going to last for -- for ten
18 (10) years. Hopefully it lasts for two (2) years, if
19 I can put it that way.

20 MS. DAYNA STEINFELD: And Diana, if --
21 if we could please put up Manitoba Hydro to Coalition
22 number 15, and here, Mr. Harper, this is -- turning,
23 we can pause here on the preamble for now, but as
24 you've discussed already today, that your view is that
25 the cost of service study is -- is one (1) input, and

1 there are other considerations that the Board should
2 take into account in setting rates?

3 MR. WILLIAM HARPER: I think that was
4 the Board's view, and I -- I was just reiterating it.
5 If -- if we decide we're going to do a cost of service
6 just on a cost causation method -- basis, then that
7 would be my view as well, yes.

8 MS. DAYNA STEINFELD: And perhaps now,
9 Diana, if we could scroll down to the response, and we
10 can just read the last sentence there and then scroll
11 over to the next page. So this would include not
12 constraining the outcome of public policy
13 considerations, that -- there is no next page.

14 Well, we'll -- we'll go from memory,
15 perhaps, here, Mr. Harper. But what I --

16 MR. WILLIAM HARPER: What number was
17 it? I've probably got a copy.

18 MS. DAYNA STEINFELD: It's -- it's 15,
19 but what I have you saying in this information request
20 is that other public policy considerations that you
21 identify are fairness in cost of service. Does that
22 sound familiar?

23 MR. WILLIAM HARPER: Well, I don't
24 think that -- I don't know -- that doesn't sound
25 familiar, because I think cost of service is what --

1 is what you're using to define the revenue to cost
2 ratios, and what you're applying the revenue to cost
3 ratios to. If --

4 MS. DAYNA STEINFELD: So I think here,
5 we have the next page, now, and the -- it's the second
6 full paragraph, or the third paragraph on this page
7 here, Mr. Harper, that I'm referring to. And so
8 perhaps you can clarify what you meant by this
9 sentence. Here is where you say:

10 "Fairness and cost of service is one
11 (1) of the considerations that the
12 Board takes into account in
13 determining the rates to be charged
14 to Manitoba Hydro's domestic
15 customers."

16 MR. WILLIAM HARPER: Right. And I go
17 on to say:

18 "It is in this context that the zone
19 of reasonableness comes into play."

20 More or less, it's -- I think from a
21 rate-setting perspective, fairness is often -- there
22 are many definitions of fairness. From a rate-setting
23 perspective, fair -- fairness is -- is often -- is
24 most freq -- frequently interpreted as being customers
25 are paying their -- their appropriate share of costs,

1 which takes us to the cost of service study and -- and
2 the zone -- and the zone of reasonableness.

3 And so really, it's the -- and that's
4 where I'm saying, when you use your cost of service
5 studies and you look at the results of those, and use
6 that as your interpretation of fairness, that's when
7 the zone of reasonableness come -- comes into play.

8 MS. DAYNA STEINFELD: Okay. So I
9 think -- this is an area that I needed a little bit of
10 help on in your -- in your evidence. But when you say
11 that the cost of service study should not constrain
12 other pol -- public policy considerations, fairness is
13 another public policy consideration, but is, in fact,
14 tied to the cost of service study?

15 MR. WILLIAM HARPER: As again, I said
16 maybe I'm -- we're having maybe -- I think we may be
17 saying the same thing, but differently, because
18 there's different interpretations of -- of fairness,
19 and this is often what happens, because some -- some
20 people could interpret it as fairness is saying, I --
21 I've -- I've got space heating. I haven't got any
22 choices. The rates are going up too much. I can't
23 pay. This is unfair.

24 That might be one (1) way that they
25 could interpret fairness. That isn't the cost of

1 service definition of fairness, but it is with --
2 well, like I say, fairness has got a number of interp
3 -- terpretations to it, which is -- and I think is --
4 and some of those other interpretations deal in with
5 those public acceptance and public policy
6 considerations. So I think we have to just be care --
7 how we're using -- excuse me -- careful how we're
8 using the term fair -- fairness. It gets thrown
9 around with a lot -- out a lot of clarity, sometimes.

10 MS. DAYNA STEINFELD: Understood, Mr.
11 Harper, and -- and I think it has been used in
12 different ways in this proceeding. But what you're
13 telling the Board is that they should look at the cost
14 of service study, and the output from that study, and
15 the question of whether or not classes are paying
16 their "fair share" in concert with other relevant
17 objectives?

18 MR. WILLIAM HARPER: Right. It --
19 it's one (1) of the input in concert with other
20 relevant factors that then decides what level of rates
21 am I going to set for each customer class overall?

22 MS. DAYNA STEINFELD: And if we stay
23 with the fairness objective for a moment, are there
24 fairness considerations that support or justify the
25 residential revenue to cost coverage ratio currently

1 being under the approved zone of reasonableness?

2 MR. WILLIAM HARPER: Well, I guess,
3 again, from a strict cost of service perspective, and
4 I guess it depends on how you do the calculation, to
5 be quite honest with you. You know, I think it -- I
6 think it -- and maybe we'll go -- go back to that
7 previous one, because I think it can be either over or
8 under the ninety-five (95), depending upon which way
9 you do the ratio.

10 MS. DAYNA STEINFELD: Certainly. So
11 Diana, that's Board counsel book of documents Volume 5
12 at page 57. Is this the -- the page you were
13 referring to, Mr. Harper?

14 MR. WILLIAM HARPER: Yes. Actually, I
15 thought it was -- maybe I -- I was going a bit from
16 memory. But yes, you know, so that actually, they're
17 both under, but as a matter -- from -- and maybe I got
18 my -- my numbers mixed up, but I'm trying to remember.
19 I thought was ninety -- ninety-five three. I've
20 probably got the two (2) numbers reversed in -- in my
21 mind when I was thinking about it.

22 But -- but I think yes, if you're
23 looking at -- strict from a cost of service
24 perspective, you -- you would say there is a -- and if
25 you wanted to apply the zones of reasonableness that

1 the Board currently had -- currently -- last approved,
2 then you would say yes, there -- they're normally
3 under. And that's one (1) consideration I would have
4 to take into account when I was -- when I was decide -
5 - deciding -- approving rates and deciding what level
6 of rates those revenues are going to generate from
7 each customer class.

8 MS. DAYNA STEINFELD: And in your
9 view, Mr. Harper, is it purely a -- a public policy
10 objective that would justify the residential class
11 underpaying its costs if we accept the ninety-five
12 (95) to one-o-five (105) zone of reasonableness?

13 MR. WILLIAM HARPER: Well, I -- I --
14 again, I think it depends what you mean by -- by
15 public policy, because there -- there are other issues
16 around gradualism and rate -- rate stability that --
17 that come into play that, as I said before, one could
18 interpret as public policy or not. And it depends
19 what else is going on at the same point in time, so I
20 -- I don't think there's a clear answer to that.

21 MS. DAYNA STEINFELD: And your
22 evidence is that at this point in time, what the Board
23 should be taking into account is the fact that
24 Manitoba Hydro is requesting a 7.9 percent increase?

25 MR. WILLIAM HARPER: Yes. I -- I

1 think that's one (1) thing that should be front and
2 centre.

3 MS. DAYNA STEINFELD: And so just to
4 be clear, it -- it's your current recommendation to
5 the Board that no adjustments be made at this time to
6 address class revenue to cost coverage ratios that are
7 outside of the zone of reasonableness?

8 MR. WILLIAM HARPER: Actually, I think
9 you're probably -- didn't make a specific rec --
10 recommendation in -- in my report because the decision
11 in the end doesn't hinge just on what the revenue to
12 cost ratios is. It hinges on that and a number of
13 other considerations as -- as well, one (1) -- one (1)
14 of which is the fact if -- if I have -- if I have a
15 higher than average rate increase for res --
16 residential customers.

17 And as I've suggested, maybe we need a
18 bit more time to look at some of these other issues
19 like low income and electric heat rates. That's going
20 to obviously impact on the -- those particular
21 customers more than the average rate increase. So
22 there's a number of issues that have -- have to --
23 have to be balanced.

24 MS. DAYNA STEINFELD: And thank you
25 for that clarification, Mr. Harper. What you've said

1 in the evidence in this proceeding is that there would
2 have to be compelling justification to impose even
3 higher rate increases than what's proposed on any
4 particular customer class? Is that -- is that a fair
5 summary?

6 MR. WILLIAM HARPER: Yes -- no. I --
7 I think we're starting off at -- at a pretty high
8 rate. If the Board accepts the 7.9 percent, a pretty
9 high rate increase for everybody to -- to begin with,
10 and -- and sort of what -- one would have to think --
11 think about what the -- one would have to think that
12 one had good -- good reasons to move it higher for any
13 particular customer class.

14 MS. DAYNA STEINFELD: And we can -- we
15 can go to the particular information request if it
16 would be helpful, but you did clarify in response to a
17 question from Manitoba Hydro that in order to be
18 sufficiently compelling, the justification for
19 differentiated class rate increases would need to
20 align with a number -- more than one (1) -- rate-
21 making objections -- objectives, sorry. Is that --
22 does -- do you recall that reference?

23 MR. WILLIAM HARPER: Yeah. No, I -- I
24 -- I think I -- I was just -- I was just trying to
25 give some sense that you would want to have some

1 compelling reason for -- for doing so, as opposed to
2 just a one (1) off reason. That's right.

3 MS. DAYNA STEINFELD: So I'd like to
4 unpack that a little bit. Let's -- let's stick just
5 to the issue of -- of differentiated rates, or
6 interclass adjustments in order to meet revenue to
7 cost coverage ratios.

8 Do you agree that doing so would, at
9 least in theory, meet the rate-making objective of
10 covering in the revenue requirement?

11 MR. WILLIAM HARPER: Well, as -- as
12 long as you are -- as long as in -- in your
13 rebalancing, you're coming, you know, wherever you go
14 down, you go up somewhere else, sort of comes out in
15 the balancing, and then yes, you've met that -- you --
16 you've met the median revenue requirement objective,
17 yes.

18 MS. DAYNA STEINFELD: And would doing
19 so also meet the objective of simplicity?

20 MR. WILLIAM HARPER: Maybe -- maybe
21 not so much so. You know, I -- I think it's much more
22 simpler -- but probably more so for customers to
23 understand if everybody's getting hit the same.

24 MS. DAYNA STEINFELD: And we've
25 already spoken about fairness in terms of covering

1 your costs, or paying your fair share. So would
2 differentiated rates meet that objective?

3 MR. WILLIAM HARPER: Yes. Yes, they
4 would. Like I said, the -- the -- that -- that would
5 be one (1) input you -- you would use in the process.

6 MS. DAYNA STEINFELD: And would
7 differentiated rates meet the objective of avoidance
8 of undue discrimination?

9 MR. WILLIAM HARPER: I -- I -- one --
10 one has to decide how one's going to define undue
11 discrimination. And -- and I -- I don't think so,
12 necessarily, no. I -- I think undue discrimination is
13 taken as a -- in my mind, is taken as a fair -- fairly
14 extreme -- extreme test.

15 If you're talking about rates as being
16 discriminatory, that's a pre -- that's a much more
17 serious consideration than saying they're just unfair.

18 MS. DAYNA STEINFELD: Fair enough, Mr.
19 Harper. And what about stability and gradualism?

20 MR. WILLIAM HARPER: Well, again, I --
21 I think depending upon the level of diff --
22 differentiation, that -- that does con -- that -- that
23 would create problems in terms of both those areas.

24 MS. DAYNA STEINFELD: And if you
25 spread out the -- the differentiation over a period of

1 time, so if you took a five (5) or ten (10) year
2 period to try to bring a class within the zone of
3 reasonableness, would that address the concerns that
4 you've raised around gradualism and stability?

5 MR. WILLIAM HARPER: It -- it would to
6 some extent, yes, and that's frequently what -- what
7 would hap -- happens in other areas where --
8 particularly if you have a large adjustment, you --
9 you want to make.

10 MS. DAYNA STEINFELD: And so turning
11 back to your evidence around interclass rate
12 adjustments requiring sufficiently compelling
13 justification, if two (2) or more rate-making
14 objectives were met, in doing so, would -- would it
15 then, in your view, be justified?

16 MR. WILLIAM HARPER: Well, again, I --
17 I don't think it's a -- I don't think it's a form -- I
18 don't think it's a formulaic box where you take --
19 I've got one (1) on this side, and two (2) on that
20 side. I -- I think in -- if -- if it was -- when --
21 we wouldn't need the -- we could put it in a box and
22 turn a handle, and out would come the answers sort of
23 thing. I think there's a matter of judgment in -- in
24 weighing the imp -- the implications of each of those.

25 MS. DAYNA STEINFELD: Thank you, Mr.

1 Harper. I -- I'd like to spend just a little bit of
2 time on the evidence you've given on alternative
3 residential rates. And -- and perhaps just before we
4 get into that specifically, I'd like to pick up on a
5 discussion you had with the Chairman earlier.

6 And perhaps, Diana, and just for
7 reference, if you could put up transcript page 31.

8

9 (BRIEF PAUSE)

10

11 MR. WILLIAM HARPER: You're going to
12 make me do something I never do, which is read my own
13 testimony, yes?

14 MS. DAYNA STEINFELD: I'm not,
15 actually.

16 MR. WILLIAM HARPER: Okay, good.

17 MS. DAYNA STEINFELD: This -- this is
18 just so that I didn't have to make Diana go on CanLII
19 and pull up a Court of Appeal decision. But if we --

20 MR. WILLIAM HARPER: Okay.

21 MS. DAYNA STEINFELD: -- scroll down a
22 little bit here, I'm sure, Mr. Harper, you're familiar
23 with this quote, which is defining the Board's mandate
24 to set just and reasonable rates that are in the
25 public interest. And again, this quote is from the

1 Manitoba Court of Appeal decision.

2 But what it says is:

3 "The Board has two (2) concerns when
4 dealing with the rate application,
5 the interests of the utilities,
6 ratepayers, and the financial health
7 of the Utility."

8 You're -- you're familiar with that
9 quote?

10 MR. WILLIAM HARPER: I'm not familiar
11 with the quotation, but I'm very familiar with the --
12 with the print -- with the principal, yes.

13 MS. DAYNA STEINFELD: And so earlier
14 today, you had a discussion about the principal of
15 public acceptability, and whether or not that goes to
16 the rate structure, or the level of the rate increase.
17 In your view, is it a valid consideration for the
18 Board when considering the interests of the Utility's
19 ratepayers when determining just and reasonable rates?

20 MR. WILLIAM HARPER: I'm sorry, if
21 what's a --

22 MS. DAYNA STEINFELD: So it -- when
23 looking at -- when the Board is looking at what a just
24 and reasonable rate is in the context of a given rate
25 application, is public acceptability a valid

1 consideration when considering the interests of
2 Utility's ratepayers?

3 MR. WILLIAM HARPER: Well, I -- I
4 think it is, but within this context, and that is the
5 fact that the Board is looking at the revenue
6 requirement to see if the expenditures are prudent,
7 are they reasonable, and are they, you know -- are --
8 are they justified? And I think in going through that
9 exercise, they're -- in my mind, that's part of what's
10 trying to go through and come -- and -- and determine
11 on whether or not they're acceptable -- publicly --
12 pub -- public acceptable.

13 At the end of the day, I -- I don't
14 think if you were to -- I -- I don't think I'm saying
15 anyway that if you were to poll Manitobans, and they -
16 - and consensus came back and said, The rate increase
17 shouldn't be more than 5 percent, that -- that would
18 be a hard guideline this Board should -- should be --
19 should be applying when it looks at a rate -- at a
20 rate application if -- when they look at the rate
21 application, they view that, you know, the cost and
22 assumptions, and they are -- justify an increase of
23 6.8 percent or something.

24 MS. DAYNA STEINFELD: Thank you for
25 that clarification. Let's turn to your slide 34 and

1 I'm starting here with the Manitoba Hydro alternative
2 rate design, electric heat rate.

3 And, Mr. Harper, in your evidence you
4 outlined some concerns that you have with this rate
5 design; correct?

6 MR. WILLIAM HARPER: Well, with --
7 with -- with this rate option. We haven't even gotten
8 into the design of the rate yet. We've been getting
9 more into the principle of, if you would have to
10 design a rate that, however, you wanted it to look
11 like ended up collecting lower revenues from -- from
12 electric heat customers, the non-electric heat
13 customers.

14 MS. DAYNA STEINFELD: And I -- I take
15 that correction and perhaps I went too far in calling
16 it a design.

17 But is one (1) of your concerns that
18 this rate option would distort the price signal for
19 non-electric heat customers?

20 MR. WILLIAM HARPER: Well, it would
21 distort the relative price signal between the two, if
22 -- if you know, so -- and if you're trying to send --
23 you can't send the exact right signal because the
24 rates are based on -- on -- on the average costs that
25 are approved in -- in the revenue requirement often.

1 So, but it would distort the relative prices between
2 the two (2) if the view is that the marginal cost for
3 electric heat customers is higher but somehow you've
4 designed rate in the end where the price signal
5 they're seeing is lower than for the other half of the
6 class.

7 MS. DAYNA STEINFELD: And is part of
8 the problem that winter marginal costs are -- are
9 higher than summer marginal costs?

10 MR. WILLIAM HARPER: Yes, and that --
11 that's -- that -- we haven't seen the facts precisely
12 on that. But that's my -- my assumption, if I
13 understand how Manitoba Hydro operates. That -- that
14 -- that's part of what would lead to the marginal cost
15 for electric heat customers being higher is that their
16 -- their usage in -- in the wintertime, by virtue of
17 the fact their space heating customers is higher.

18 MS. DAYNA STEINFELD: So if I can try
19 to summarize, is it your view that applying marginal
20 cost pricing to a non-electric heat tail block would
21 shelter electric heat customers from the appropriate
22 price signal?

23 MR. WILLIAM HARPER: You -- you said
24 applying a marginal cost base price to the non-
25 electric heat tail block?

1 MS. DAYNA STEINFELD: Sorry. Right,
2 that if you applied marginal cost pricing to a non-
3 electric heat tail block, you would be sheltering
4 electric heat customers in that rate design.

5 MR. WILLIAM HARPER: Well, since the
6 marginal costs are now less than the average revenues,
7 if I was to do that, I'd actually be collecting less
8 revenue from the non-heat customers. And the question
9 is, where I get from? If it's going to stay within
10 the class, I -- then they're going to have to increase
11 the rates for heating customers.

12 So, I'm not too sure -- and if that
13 seems to be directionally going the opposite way as to
14 what you were suggesting in your question.

15

16 (BRIEF PAUSE)

17

18 MS. DAYNA STEINFELD: And Mr. Harper,
19 you just mentioned that now particularly with the
20 update that Manitoba Hydro has provided on its
21 marginal costs, that current residential marginal
22 costs are below energy rates.

23 MR. WILLIAM HARPER: Are -- are below
24 the average energy rate that was approved by the Board
25 for August 1st, 2017, that's correct.

1 MS. DAYNA STEINFELD: Would that
2 support a declining block rate?

3 MR. WILLIAM HARPER: No. If -- if you
4 take that very narrow interpretation, yes. Yes, it
5 would. You'd have to -- but then you'd have to think
6 about what other messages is that sending in the
7 overall context.

8 MS. DAYNA STEINFELD: And can you just
9 expand on that a little bit for me --

10 MR. WILLIAM HARPER: Well, I think --

11 MS. DAYNA STEINFELD: -- the nature of
12 your concern.

13 MR. WILLIAM HARPER: Well, I think the
14 concern is there is that, DSM is still very much an
15 active -- activity of Manitoba Hydro. It's going to
16 be an active activity of Efficiency Manitoba. I think
17 I've got the name correct -- or Manitoba efficiency, I
18 can't remember that's what it is and that, you know,
19 and so that, to some extent, having that sort of rate
20 design at the same point in time that you're trying to
21 promote DSM, that's sort of -- it's sort of a mixed
22 message to -- message to customers. And maybe the
23 right marginal -- cost for customers are seeing just -
24 - if I look at the rate structure my bill -- more --
25 you know, I'm getting a benefit when I use more. At

1 the same point in time I'm seeing somebody advertising
2 telling me I should sign up for this program that will
3 help me reduce my energy use.

4 I think when -- like I said, rate
5 design is a tool that sort of -- sort of supports a
6 number things. I don't -- I don't think you want to
7 do it so you're sort of sending mixed messages to
8 customers.

9 MS. DAYNA STEINFELD: And I think I
10 know the answer to this, Mr. Harper, but you've
11 provided your assessment in your evidence of various
12 alternative rate designs or options and you've
13 identified some concerns with what has been presented
14 before the Board.

15 Is your preferred rate design option an
16 across-the-board uniform rate increase?

17 MR. WILLIAM HARPER: Well, that's not
18 a -- again, we're mixing terminology here. That's not
19 a rate design option at all. You can have an across-
20 the-board rate increase for all customer classes and
21 then design any particular rate you want to recover
22 the revenues from that class.

23 So, I guess if you're asking me about -
24 - so and if it is --

25 MS. DAYNA STEINFELD: And you would --

1 is your preferred option to take an across-the-board
2 rate increase and leave the rate design exactly as is?

3 MR. WILLIAM HARPER: For -- for the
4 immediate future, yes. I think if -- if the Board
5 decides it wants to pursue some -- some of these
6 particular issues that's something that I think can be
7 done in a reasonable period of time and that -- then
8 move forward from there.

9 MS. DAYNA STEINFELD: And you have in
10 your evidence talked about some next steps and, in
11 particular, for low-income rate design. So perhaps it
12 would be helpful to turn to your slide 37.

13 And maybe just before we get into the
14 details of this, Mr. Harper, you mentioned earlier
15 today some initiatives that have been taken through
16 the Ontario Energy Board.

17 And I'm wondering if you might be able
18 to provide a little bit more detail on that. One of
19 the things that you mentioned is that the Utility now
20 has to conduct public outreach before the application
21 is -- is filed with the Board; is that correct?

22 MR. WILLIAM HARPER: Well, I think
23 there's two (2) things. One (1) is the -- since is
24 for the distribution utilities I think -- right --
25 there's been a new direction from the Board that in

1 filing their application, they're supposed to clearly
2 demonstrate how -- what the outcomes that are supposed
3 -- are going to be in terms of what the Utility's
4 going to be doing and how those outcomes align with
5 customer expectations and that they've done a
6 reasonable job of identifying what the customer
7 expectations are.

8 So what they're doing aligns with what
9 the -- with -- with what their cus -- with what their
10 customers want.

11 MS. DAYNA STEINFELD: And --

12 MR. WILLIAM HARPER: And then after
13 that, I said that's sort of before they file their
14 application, then -- then after they file their
15 application, currently there's a process whereby it's
16 almost like town halls are held with -- with sort of
17 in -- in the community to sort of present the
18 application and -- and -- and get feed -- and get
19 feedback on that. And actually, Board staff attends
20 and presents the results of the feedback to the Board
21 as -- as part of the process.

22 MS. DAYNA STEINFELD: And in terms of
23 the pre-application consultation, are you -- are you
24 familiar with how the distribution utilities have
25 executed that requirement?

1 MR. WILLIAM HARPER: Some -- some --
2 some of them use surveys, you know, in terms of -- of
3 survey forms. Firms sur -- survey their customers.
4 Some of the very smaller ones will actually meet --
5 meet -- meet with customers; that's obviously not
6 practical for a large Utility and most of them act --
7 actually use surveys to -- to survey their customer.

8 MS. DAYNA STEINFELD: And the post-
9 filing town hall that you mentioned, is that hosted by
10 the Utility and Board staff as an attendance, or it
11 hosted by the Board?

12 MR. WILLIAM HARPER: Well, I would say
13 jointly is the best way -- is the best way to describe
14 it. Presentations are made at it by both Board staff,
15 in terms of the process, and by the Utility, in terms
16 of what -- what the application consists of, and --
17 and what they're looking for.

18 The -- the Board establishes certain
19 requirements in terms of the publication of notice
20 about the town halls taking place. So I'd say it's a
21 joint initiative.

22 MS. DAYNA STEINFELD: And if you don't
23 know the answer to -- to this that's -- that's fine,
24 but if you do, I think your information is
25 appreciated.

1 Do you know, if the requirement of
2 conducting that pre-filing consultation is not met,
3 what the outcome is? How does the Board address that?

4 MR. WILLIAM HARPER: Well, I -- I
5 guess the Board addresses that by considering the --
6 the reasonableness and the justification for the
7 expenditures overall. And this often goes to the
8 capital pro -- programs 'cause that's often what's --
9 what sort of the -- the -- sort of the unique thing
10 about utilities, in terms of what their -- what are
11 the particular programs utilities are proposing, in
12 terms of its programs.

13 And -- and to some extent, if there
14 hasn't been the level of, sort of, interaction that's
15 been -- will go -- go to the point of view of to what
16 extent had these capital programs been justified as
17 being required and necessary.

18

19 (BRIEF PAUSE)

20

21 MS. DAYNA STEINFELD: So, Mr. Harper,
22 you said it's largely in the context of capital
23 program approvals that that process is --

24 MR. WILLIAM HARPER: Well, you know
25 I'll be quite honest with you, I -- I'm not -- I'm not

1 sitting in the back rooms with the Board when -- when
2 they're making -- when -- when they're making their --
3 their decisions. I have -- I'm trying -- trying to
4 recall, but I think where I've seen it, sort of,
5 reflected most readily in the wording of the decisions
6 has been around areas of capital programs.

7 You know, it may influence their
8 thinking elsewhere, but -- but that's where I -- I've
9 seen it evi -- more -- more evident.

10 MS. DAYNA STEINFELD: And in terms of
11 your evidence today on -- on public acceptability, in
12 your view would it be appropriate for there to be
13 similar requirements in a rate case?

14

15 (BRIEF PAUSE)

16

17 MR. WILLIAM HARPER: And the reason
18 I'm pausing and struggling is -- is this is much --
19 much easier to do with a distribution utility that has
20 -- that has a smaller sur -- has -- has a smaller serv
21 -- service area. As we -- as utilities get bigger --
22 and that's why some of these particular surveys --
23 when you get to the size of all of Manitoba -- I'm
24 strug -- what I'm -- what I'm struggling with is the
25 pract -- is what sorts of approaches would -- would be

1 practical to -- to apply and...

2 MS. DAYNA STEINFELD: Thank you, Mr.
3 Harper. And -- and I appreciate that you're not
4 behind the scenes, and so I appreciate you providing
5 the further explanation that you've been able to
6 provide.

7 Let's -- let's now take a look at slide
8 37. And this is where, in your evidence, you
9 discussed rate design considerations for low income
10 rates. And what you say here is that further research
11 is required. I think in your response -- and we can
12 bring it up if it's helpful -- but in your response to
13 the PUB-Coalition 23, you've identified some specific
14 next steps.

15 And am I correct that one (1) of those
16 next steps is having the Board clarify the target
17 group, in terms of a low-income rate design?

18 And maybe, Diana, if -- just to help
19 Mr. Harper, if we could pull it up, and just scroll
20 down to the response under, I believe it's 23B. And I
21 think just at the bottom of this page. Sorry, just up
22 a little bit, Diana. That's perfect.

23 So this is where, Mr. Harper, you
24 discuss a more focused rate design, and who -- who it
25 should be aimed at.

1 MR. WILLIAM HARPER: And I think I was
2 -- I don't think -- but I think if I look at the
3 paragraph above it, this focused issue was spoke --
4 was speaking more about space heating customers, in
5 terms of, you know, what -- you know, what's the --
6 what's the group there -- you know, what's the group
7 there? There's been some discussion about space
8 heating customers in nongas areas as being the ones
9 that are really affected.

10 Clearly, there is an issue. You know
11 you can -- you take a Venn diagram and cross over the
12 two (2), obviously low-income customers with space
13 heating is -- you can put -- put them in non -- you
14 know, in a sep -- separate grou -- group again.

15 So -- and there's been a lot of dis --
16 discussion and references to low income in different
17 groups, and so it's a matter of, you know, you -- are
18 you trying design something for all these different
19 groups, or are the groups that one thinks one should
20 give priority to, in -- in terms of moving forward,
21 that would help focus the eff -- efforts.

22 MS. DAYNA STEINFELD: And you said
23 earlier, Mr. Harper, that the devil is in the details,
24 so your -- as I take it, your recommendation to the
25 Board is that the Board should indicate how the rate

1 design should be focused, and then the details can
2 move forward from there.

3 MR. WILLIAM HARPER: I -- I guess, I -
4 - to the extent the Board can, in terms of what --
5 what it considers the priority area, the priority
6 customer groups, to start off with, if it has any
7 particular views, in terms of we've talked about. One
8 (1) -- one (1) of the big issues is it is -- is it a
9 proportional approach, or is it sort of fix -- fixed
10 approach, so that everybody's getting the same
11 discount; there's pluses and minuses on each, as I
12 talked about in -- in my presentation.

13 And so, you know, people can go away
14 and study both, but obviously they can go much more
15 quickly if it is a focus on one (1) one of those two
16 (2) part -- one of those two (2) particular
17 approaches.

18 MS. DAYNA STEINFELD: And I believe
19 you've also identified in your evidence as a next
20 step, holding the stakeholder committee to establish
21 the requirements of a focused rate option, once you've
22 determined who the priority groups are?

23 Is that fair?

24 MR. WILLIAM HARPER: Yes, that's fair.
25 And I think -- 'cause if you're talking about -- if

1 you're talking about trying to des -- design rate in
2 an implementation process for billing, clear --
3 clearly Man -- Manitoba Hydro has -- has a stake.
4 There are issues about bill -- billing systems and
5 issues like that.

6 There are also issues, in terms of how
7 are you -- the application process itself, and how
8 readily will that be able -- able to be followed
9 through and, sort of -- sort of, accepted, or people
10 being able to apply. I'm wording this rath -- rather
11 awkwardly, I apologize.

12 And so it -- it might -- might be
13 useful to have people involved from one (1) or two (2)
14 social agencies that -- that are familiar with those
15 sorts of issues, but -- you know, so -- so that one
16 can, like I said, and -- sort of mirroring off the
17 thought of what happened when -- when I was working on
18 that OESP working group, where there were stakeholders
19 from a number of the relevant con -- constituencies,
20 sort of, trying to make sure that -- sort of, that
21 when -- when they're thinking through the process that
22 -- that the issues that they knew were -- were
23 relevant were also raised and discussed at the time.

24 MS. DAYNA STEINFELD: And is it your
25 view, Mr. Harper, that those are next steps that are

1 required to build on the stakeholder process that has
2 already happened in Manitoba? By which I mean the
3 Bill Affordability Working Group.

4 MR. WILLIAM HARPER: Yeah, 'cause I --
5 I think the Bill Affordability Working Group, and if
6 you look at the report, was talking about a number of
7 rate designs at a fairly high level, And I think
8 they're -- they're -- themselves identified issues
9 around -- you know, there are implementation issues
10 with this, definition issues with that. So I think
11 it's a matter of buil -- of build -- building on that,
12 and taking it the next step, in terms of, sort of,
13 putting more definition around that, yes.

14 MS. DAYNA STEINFELD: And so -- and
15 just so I'm clear, what you're suggesting to the panel
16 is that there should be a further stakeholder process
17 with the relevant groups at the table including,
18 potentially, government social agencies who would
19 examine more closely exactly those implementation
20 issues, and how to move forward?

21 MR. WILLIAM HARPER: Yes.

22 MS. DAYNA STEINFELD: Okay. And is
23 there also a further next step, beyond a stakeholder
24 process, around research to determine public
25 acceptability, or is that part of the same stakeholder

1 process, in your view?

2 MR. WILLIAM HARPER: Well, I think
3 this group, around the table, themselves are going to
4 be identifying issues, and I think I flagged as one -
5 - one (1) of the issues is that they -- and go out and
6 do it whether it be it a -- through focus groups or
7 whatever else but this -- this particular issue in
8 terms of trying to understand export, well, will --
9 will customers understand this?

10 The best way to do it, maybe to get
11 together a group -- group of customers and walk
12 through and say which of these two (2) approaches --
13 do you -- if I was -- if I was to send you a bill that
14 looked like this, as opposed to like that, what --
15 what would be your understanding of the bill, or would
16 you understand how it was done, or would -- would you
17 have concerns, or would -- would it create concerns
18 for you?

19 MS. DAYNA STEINFELD: So a stakeholder
20 process that you're suggesting could include the
21 holding of focus groups that would then feed into the
22 results of that committee.

23 MR. WILLIAM HARPER: Yes, yes.

24 MS. DAYNA STEINFELD: Okay.

25 MR. WILLIAM HARPER: I don't see it

1 being a next step, I see it being part of the same
2 process.

3 MS. DAYNA STEINFELD: Okay, thank you.
4 And you spoke about this a little bit already today
5 but just so I'm clear, are there options for low
6 income assistance offered by the Utility beyond a low-
7 income rate that you've seen in other jurisdictions?
8 Are there other ways of getting that affordability
9 beyond a low-income rate itself?

10 MR. WILLIAM HARPER: Well, I -- I
11 guess the working -- you know, and I guess the working
12 group itself is identified the fact that, you know,
13 DSM pro -- programming for low -- low income customers
14 can help address affordability for low income
15 customers, and that's one -- one of the
16 recommendations that I believe came out of that group
17 in terms of trying -- trying to strengthen certain of
18 those programs.

19 You know, while -- while it's not a
20 sort of making things more affordable, issues around
21 I think -- also making things more manageable in terms
22 of whether it'd be strengthening things like the
23 Neighbours Helping Neighbours program or sort of
24 forgiveness of arrears or things of that. I mean,
25 that doesn't help things in -- in the longer term, but

1 -- but it does -- does help customers through --
2 through a particular bump if I could put it that way.

3 And I think those are other
4 considerations that came out of the working group as
5 well. So, I think there are other ways. I think at
6 the end of the day the question was, as you know, the
7 idea of a low income rate was another leg on the
8 stool, if I can put it that way, or -- or another way
9 of approaching it. But I think the working group did
10 deal with other ways of trying to assist low-income
11 customers with bill affordability.

12 MS. DAYNA STEINFELD: You also spoke,
13 Mr. Harper, about the Ontario program that you've had
14 some -- some involvement in and I understand -- and
15 you can correct me if I got this wrong -- but that was
16 an initiative that came to the Ontario Energy Board
17 from government and then the Ontario -- through the
18 Ontario Energy Board there was a working group in
19 which you participated to an extent.

20 Have I got that right?

21 MR. WILLIAM HARPER: Yes.

22 MS. DAYNA STEINFELD: So if those are
23 the -- the first two (2) steps, what -- what came
24 after that? So is the working group still meeting or
25 has there been an outcome from that process?

1 MR. WILLIAM HARPER: Well, the program
2 -- the program was implemented. It was actually
3 refined and the -- and the amounts that were made
4 available to low-income customers were actually
5 increased in 2017 as part of the Fair Hydro Pro --
6 Hydro Plan that the government did.

7 So, the plan's up and running right now
8 and there's a -- if you go to the Ontario Energy Board
9 website, there is a schedule that there that shows for
10 -- basically, it depends on your level -- level of
11 income and how many people are in your household, what
12 your monthly discount will be every day. Actually,
13 there's a -- application forms available of --
14 available online and about three (3) different ways
15 one can actually apply for the program.

16 MS. DAYNA STEINFELD: Just turning to
17 my last area of question, Mr. Harper. I think we're
18 all in agreement in the room that if -- if there is a
19 program of -- of some kind in the way of an
20 alternative rate design and it has a revenue impact
21 that there has to be some basis for recovering the
22 revenue.

23 And I take your evidence to be that it
24 -- it shouldn't be limited to just the residential
25 customer classes; is that right?

1 MR. WILLIAM HARPER: That's correct.
2 I really see no -- this -- this isn't a cost of
3 service refinement, it's a -- it's -- it's something
4 broad -- it's something broader than that. And so I
5 don't see any reason for -- I don't see any reason for
6 restricting it just -- just to residential.

7 And if you think about the broader you
8 apply it, the less impact it has on each individual
9 party who has to contribute to it.

10 MS. DAYNA STEINFELD: And as --
11 essentially spreading out the impact, the primary
12 reason that a commercial and industrial customer
13 should pay for an alternative rate design that only
14 benefits the residential class?

15 MR. WILLIAM HARPER: Well, I think you
16 have to watch because it doesn't benefit the
17 residential class, it benefits a subsegment of the
18 residential class. And for a residential customer
19 that isn't low income, there really isn't much
20 difference between them and the commercial customer or
21 the industrial customer. None -- none of the three
22 (3) of them can -- can participate in the program or
23 get a benefit from the program.

24 MS. DAYNA STEINFELD: And I'm going to
25 maybe put you on the spot a little bit, but are there

1 rate-making principles that would support that kind of
2 systemwide recovery approach?

3 And we can put up your side --

4 MR. WILLIAM HARPER: No, no, I'm
5 thinking about it.

6 MS. DAYNA STEINFELD: -- that has the
7 principles if that's helpful.

8 MR. WILLIAM HARPER: -- The rate-
9 making principles are pretty broad and open to wide
10 range of interpretations. So, you know, one (1) --
11 one (1) person could look at them and say, yes;
12 another person could look at them and say, no is what
13 -- is what I was struggling with at the end of the
14 day.

15 I -- I can tell you that prior to the -
16 - prior to the Fair Hydro Plan, there were two (2)
17 what you would call -- for want of a better word --
18 subsidy programs in place in Ontario. One -- one was
19 rural rate assistance which -- which has been in place
20 since the late '70s or the early '80s which basically
21 underwrote the rate for residential and some general
22 service customers and small rural areas that were
23 higher cost service areas because we do have density-
24 based rates in Ontario. And the cost of that was
25 spread over all customers on the system.

1 And similarly with the Ontario Energy
2 Support Program was introduced, and it was funded
3 through ratepayers. The cost of that was spread over
4 all ratepayers on the system.

5 MS. DAYNA STEINFELD: So broadly
6 interpreted, it's supported by public policy; is that
7 fair?

8 MR. WILLIAM HARPER: Yep. Well, and -
9 - like I said, in both cases that -- particularly the
10 rural rates, I mean, that -- that was a choice of the
11 Utility in terms of how it wanted to -- how it wanted
12 to proceed to re -- recover those costs.

13 MS. DAYNA STEINFELD: And if -- if we
14 assumed that the Board did want to embark on a path of
15 moving the customer classes within the zone of
16 reasonableness, am I right that recovering the costs
17 of an alternative rate design from all customers would
18 be at cross-purposes from adjusting the revenue to
19 cost coverage ratios; that it -- it would exacerbate
20 the problem in terms of some classes falling outside
21 of the zone of reasonableness?

22 MR. WILLIAM HARPER: I'm -- I'm not
23 too sure if it would -- if it would exacerbate it at
24 all to the extent that if you were -- and again, one
25 would have to think through if this was a cost, how

1 your -- because it would then be incorporated to some
2 extent in the cost of service study. It was part of
3 the revenue requirement and it may -- and it may be
4 spread over all customer so it -- it may naturally
5 take -- take care of itself, depending upon how one
6 wants to decide on the cost of service study to -- to
7 allocate those costs.

8 So I don't think it might -- I don't --
9 well, depending on how it -- that was treated on the
10 cost of service study as whether it exacer --
11 exacerbated things or not.

12 MS. DAYNA STEINFELD: And just so I
13 have the point, what you're saying is that -- that
14 that would then be a cost at -- that would then have
15 to be flowed through the cost of service study.

16 And so how -- how the revenue to cost
17 coverage ratios were impacted would depend on the cost
18 of service study treatment?

19 MR. WILLIAM HARPER: Yes.

20

21 (BRIEF PAUSE)

22

23 MR. WILLIAM HARPER: Excuse me, if I
24 can just follow-up on that. Or alternatively it's --
25 the whole thing is managed outside of the cost of

1 service study as a separate rate rider in which case
2 it has no impact on the revenue to cost ratios at all
3 because it's all managed outside of the cost of
4 service study. That would be -- that would be another
5 approach of what could take to it.

6 MS. DAYNA STEINFELD: And just so I
7 understand, the first answer that you gave, can you
8 explain why it could be considered a cost that would
9 need to be treated through the cost of service study?

10 MR. WILLIAM HARPER: Well, I -- I
11 guess the question -- that's why my second response to
12 you, actually, because at the end of the day if you
13 have to recover the money then the question is, you
14 have to charge it out to customers.

15 And you know one might initially --
16 well, that initial thought might be, well, that --
17 well if it's a cost that's recovered from customers,
18 it goes into the cost of service methodology, but
19 that's what I did my follow-up response to you was
20 that in some cases one could alternatively consider,
21 it's not a cost, it's not part of the cost of service
22 study. This is just an additional rate rider we apply
23 to everybody of, say, .1 cent a kilowatt hour in order
24 to recover the money we need to fund this particular
25 initiative.

1 MS. DAYNA STEINFELD: And so if we
2 took your second option that you've just explained,
3 the rate rider option, wouldn't that then recover
4 more revenue from certain customer classes which would
5 then exacerbate the problem of those classes
6 contributing more than their fair share of revenue?

7 MR. WILLIAM HARPER: If you were to
8 include that rate -- rate rider, yes. It depends then
9 of -- again, how you calculate your revenue cost
10 ratios.

11 MS. DAYNA STEINFELD: Thank you, Mr.
12 Harper. Mr. Chair, those are my questions for this
13 witness.

14 THE CHAIRPERSON: Thank you. Ms.
15 Steinfeld. Dr. Williams, any re-examination?

16 DR. BYRON WILLIAMS: Yes, and a few
17 questions following up the able cross-examination of
18 My Learned Friend Ms. Steinfeld.

19

20 RE-EXAMINATION BY DR. BYRON WILLIAMS:

21 DR. BYRON WILLIAMS: Just for
22 clarification purposes, you had near the end of your
23 conversation with Ms. Steinfeld, the discussion of the
24 OESP which I think is the Ontario Electricity Support
25 Program, Mr. Harper?

1 MR. WILLIAM HARPER: Yes.

2 DR. BYRON WILLIAMS: And you
3 referenced some changes in 2017?

4 MR. WILLIAM HARPER: Yes.

5 DR. BYRON WILLIAMS: And in terms of
6 the Ontario Electricity Support Program now, for
7 clarification purposes, who is funding it?

8 MR. WILLIAM HARPER: As of 2017 it's a
9 tax -- it's a taxpayer-funded program.

10 DR. BYRON WILLIAMS: Okay. And you
11 will recall very -- quite a while ago, in your
12 conversation with -- with My Learned Friend Ms.
13 Steinfeld, there was a discussion of -- of an output
14 from the cost of service study putting residential
15 customers at the boundary of 95/105 or slightly below
16 that.

17 You recall that?

18 MR. WILLIAM HARPER: Yes.

19 DR. BYRON WILLIAMS: And Ms. Steinfeld
20 put to you some regulatory principles including
21 stability and gradualism?

22 MR. WILLIAM HARPER: Yes, I recall.

23 DR. BYRON WILLIAMS: And mathematical
24 -- well, Mr. Harper, you're aware that the Bipole III
25 project is coming online very soon?

1 MR. WILLIAM HARPER: Yes, I am.

2 DR. BYRON WILLIAMS: And
3 mathematically, Mr. Harper, are you aware of the
4 implications that Manitoba Hydro has estimated for the
5 residential class of Bipole III coming online?

6 MR. WILLIAM HARPER: Yes -- yes, I am.

7 DR. BYRON WILLIAMS: And what are
8 they?

9 MR. WILLIAM HARPER: Well, I think the
10 -- do you want the specific --

11 DR. BYRON WILLIAMS: I don't need the
12 specific direction.

13 MR. WILLIAM HARPER: -- cause I looked
14 up -- directionally what happens is the revenue-to-
15 cost ratios for the smaller customer classes go up;
16 that would be residential, general service small non-
17 demand. By the time you get to general service medium
18 it's about breakeven and then the larger customer
19 classes, their revenue-to-cost ratios go -- go down.

20 DR. BYRON WILLIAMS: And would the
21 same implication flow from Keeyask, sir?

22 MR. WILLIAM HARPER: I would think
23 directionally, you would get the same implications
24 from Keeyask when it comes into service, yes.

25 DR. BYRON WILLIAMS: Now the one

1 regulatory principle that My Learned Friend did not
2 put to you in that conversation, Mr. Harper, was
3 efficiency?

4 MR. WILLIAM HARPER: Yes, that's
5 correct.

6 DR. BYRON WILLIAMS: And you've done a
7 comparison in terms of the average revenue from
8 different class -- classes as compared to their
9 marginal costs?

10 MR. WILLIAM HARPER: That's -- that's
11 correct. With revised marginal costs that Manitoba
12 Hydro has produced, yes.

13 DR. BYRON WILLIAMS: And
14 directionally, sir, let's assume on an embedded cost
15 basis one is trying to move the -- the residential
16 class up, notwithstanding the implications of Bipole
17 III and Keeyask.

18 In terms of the efficiency principle,
19 what kind of message would that be sending, sir?

20 MR. WILLIAM HARPER: Well, and I think
21 I indicated in -- in my presentation that if by moving
22 them up you were -- and particularly if you were
23 trying to apply those recovery to a larger volume
24 customers that would be inconsisting -- inconsistent
25 because you'd be increasing -- if they're already at

1 about 125 percent, you'd be increasing their
2 percentage further.

3 DR. BYRON WILLIAMS: And finally,
4 Diana, if you can just pull up -- and, Mr. Harper,
5 you'll recall a conversation with My Friend in terms
6 of insight into the Ontario Energy Board and their
7 consultation processes?

8 MR. WILLIAM HARPER: Yes.

9 DR. BYRON WILLIAMS: In particular
10 with distribution companies?

11 MR. WILLIAM HARPER: Yes.

12 DR. BYRON WILLIAMS: And, Diana, if
13 you can pull up just from Coalition 32-1, tab 5, an
14 excerpt from Toronto Hydro. And just scroll down to
15 Section E24.

16 And, Mr. Harper, I'll just give you a
17 second to look at that.

18

19 (BRIEF PAUSE)

20

21 DR. BYRON WILLIAMS: And you see, sir,
22 that Toronto Hydro in terms of their consultation
23 progress -- program undertakes focus groups, online
24 workbooks accessible to all customers, facilitator
25 workshops with commercial and industrial users and,

1 finally, a statistical telephone survey?

2 MR. WILLIAM HARPER: Yes, and this is
3 the -- I -- I was involved in reviewing this
4 particular aspect of Toronto Hydro's application but I
5 would strongly suspect that this was in direct
6 response to the Board's directive as to the type of
7 outreach they should be doing to customers.

8 DR. BYRON WILLIAMS: Thank you. And I
9 thank you for those -- for that opportunity to do re-
10 examination.

11 THE CHAIRPERSON: Does the Panel have
12 any questions? No?

13 Okay, Mr. Harper, thank you very much
14 for all -- for all your work and for attending --
15 sorry, attending today and your assistance to the
16 Board. Thank you.

17 MR. WILLIAM HARPER: Thank you very
18 much.

19 THE CHAIRPERSON: And we're happy that
20 good things happen when you come here and I'm sure
21 that if you ever want a nice conversation, Ms.
22 Steinfeld loves to talk about cost of service
23 methodology and good things will come from that as
24 well.

25 Ms. Steinfeld...?

1 MS. DAYNA STEINFELD: Mr. Chair, if I
2 may, this morning I indicated that the schedule for
3 tomorrow may -- may change and Mr. Simonsen will
4 correct me if I'm wrong but I believe the schedule is
5 such that we will be starting at 1:00 p.m.

6 MR. KURT SIMONSEN: That's correct,
7 with presentations.

8 THE CHAIRPERSON: Thank you, we're
9 adjourned until one o'clock tomorrow. Thank you.

10

11 (PANEL STANDS DOWN)

12

13 --- Upon adjourning at 4:30 p.m.

14

15 Certified Correct,

16

17

18

19 _____

20 Cheryl Lavigne, Ms.

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