



“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 24th, 2018
Pages 5991 to 6308

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1 --- Upon commencing at 9:00 a.m.

2

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

6 MS. DAYNA STEINFELD: Thank you, Mr.
7 Chair, and there are some changes from the schedule
8 that's on the screen before you. We'll be starting
9 this morning with the witness panel from the Manitoba
10 Industrial Power Users Group. They are scheduled to
11 start at 9:00 a.m. and to conclude at 11:15.

12 At that point in time we'll have cross-
13 examination from the Business Council of Manitoba,
14 followed by the Coalition and that will likely be a
15 good time to take the lunch break. After lunch MKO
16 will have cross-examination, followed by the Green
17 Action Centre, and the General Service Small and
18 General Service Medium, Keystone Agricultural
19 Producers and we expect that Manitoba Hydro will start
20 their cross-examination at approximately 2:15. They
21 have four (4) hours total scheduled between today and
22 tomorrow. And so we would suggest that after they
23 start at 2:15 a break just be taken at a time that
24 works for the Board Panel and the witness panel and
25 Manitoba Hydro counsel.

1 This panel of witnesses will be
2 continuing tomorrow morning for the duration of the
3 morning. Thank you.

4 THE CHAIRPERSON: Thank you. Good
5 Morning. Mr. Hacault...?

6 MR. ANTOINE HACAULT: Yes, good
7 morning, Mr. Chair and members of the panel. We're
8 pleased to have the opportunity to present additional
9 evidence. As you know, we cosponsored the evidence of
10 Morrison Park Associates and this morning if we can
11 have the witnesses sworn in, we'll have Misters
12 Bowman, Osler and Forrest testifying.

13

14 MIPUG PANEL

15 PATRICK BOWMAN, Sworn

16 CAMERON OSLER, Sworn

17 GERALD FORREST, Sworn

18

19 EXAMINATION-IN-CHIEF BY MR. ANTOINE HACAULT:

20 MR. ANTOINE HACAULT: The witnesses
21 have been sworn. I'd like to confirm that their
22 presentation, which was distributed, is going to be
23 marked as MIPUG Exhibit 26, and that the small book of
24 documents, with some key exhibits, will be marked as
25 MIPUG Exhibit 27. Hopefully they've been distributed

1 to the panel.

2

3 --- EXHIBIT NO. MIPUG-26: MIPUG PANEL PRESENTATION

4

5 --- EXHIBIT NO. MIPUG-27: MIPUG BOOK OF DOCUMENTS

6

7 EXAMINATION-IN-CHIEF BY MR. ANTOINE HACAULT:

8 MR. ANTOINE HACAULT: Now, starting

9 with Mr. Bowman, can you confirm that your evidence

10 was prefiled and I recorded as being marked as Exhibit

11 13.

12 Can you confirm that?

13 MR. PATRICK BOWMAN: Yes. Good

14 morning, Mr. Chairman, members of the Board, yes, I

15 can confirm that.

16 MR. ANTOINE HACAULT: And can you

17 advise of any changes or corrections which should be

18 made to that prefiled evidence MIPUG-13?

19 MR. PATRICK BOWMAN: Yes, I have three

20 (3) corrections to the evidence that we can deal with

21 this morning. The first is at page 7-11 and in row 3,

22 you will see that -- the -- a phrase "Hydro notes that

23 only 300 million was collected as offsetting revenue."

24 The correct reference should be 300,000.

25 The second is at page 7-13, which is

1 two (2) pages in front of this, is a diagram that has
2 been -- a figure that has been shown in this hearing
3 previously. We noted that there -- the lines are
4 slightly shifted and so we've produced a new version,
5 which is included as part of MIPUG-27, that was just
6 distributed, page 5.

7 For people who aren't graph people, the
8 -- the difference may not be noticeable but the --
9 there are two (2) lines that hang off the edge and --
10 and -- or shifted one -- one place to the -- to the
11 right.

12 And the final change is at page 5-5.
13 And this is in a table that is used to support the --
14 a figure two (2) pages back, called figure 5-1, and
15 the issue within the row of labels. As you look down
16 the left side, there are two (2) labels, two (2) rows
17 listed as Domestic Sales Net of DSM; that should say
18 "Domestic Gross Load Net of DSM." The intention was
19 to use the -- the load at the -- at the generators --
20 at the generator terminals and avoid all the details
21 of stations services and losses and the like in
22 between. So, it should -- the values use "gross load"
23 and that line should say "gross load." That's all.

24 MR. ANTOINE HACAULT: And can you
25 confirm that you also responded to the various

1 interrogatories and those are accurate, to the best of
2 your knowledge?

3 MR. PATRICK BOWMAN: Yes.

4 MR. ANTOINE HACAULT: Now, M. Osler
5 and Forrest --

6 MR. PATRICK BOWMAN: I'm sorry, Mr.
7 Hacaault, can I just -- that -- the same issue with
8 table 5-1 also rises in the response to PUB-MIPUG-1
9 which is the row of labels. So it's the same -- it's
10 the same correction, it's just it -- that table was
11 reproduced with a slightly different conversion of
12 PUB-MIPUG-1 so the row of label, again, is -- is a
13 missing.

14 MR. ANTOINE HACAULT: Okay, thank you.
15 Mr. Osler and Mr. Forrest, can you confirm that you
16 have prefiled evidence in this proceeding, and I have
17 it recorded as MIPUG Exhibit-14.

18 MR. CAMERON OSLER: Yes, I can
19 confirm.

20 MR. GERALD FORREST: Similarly, I
21 confirm.

22 MR. ANTOINE HACAULT: Okay. And also
23 you have responded, both of you, to various
24 interrogatories. Can you confirm that those are
25 accurate, to the best of your knowledge and no

1 corrections need to be made to those, or your
2 evidence?

3 MR. CAMERON OSLER: I can confirm that
4 the interrogatories are accurate, to the best of my
5 knowledge. The only correction that I would note for
6 the evidence was on page A-1, of MIPUG-14, at line 10.
7 It says "March 31st, 1988" and it should have been
8 March 31st, 1978.

9 MR. ANTOINE HACAULT: Mr. Bowman, you
10 were also responsible for various supplementary papers
11 which have been filed as MIPUG-15.

12 Can you confirm that those were
13 prepared by you or under your direction and are there
14 any corrections or changes that you know of that need
15 to be made to those papers?

16 MR. PATRICK BOWMAN: Yes, I can
17 confirm and I am not currently aware of any questions
18 or issues with those papers.

19 MR. ANTOINE HACAULT: Now, Mr. Bowman,
20 I'm going to briefly take you through some of your
21 areas of experience and -- and qualifications, and
22 I've put in front of you on the screen for your
23 convenience your curriculum vitae, which is attachment
24 'A' to your prefiled evidence.

25 Can you confirm that you've been

1 accepted as an expert in a number of cases, including
2 before this Board, and those appearances are largely
3 listed on the last page of your curriculum vitae?

4 MR. PATRICK BOWMAN: Yes.

5 MR. ANTOINE HACAULT: And those areas
6 of experience include elect -- Utility regulation and
7 rates, project development and planning and Utility
8 resource planning?

9 MR. PATRICK BOWMAN: Yes.

10 MR. ANTOINE HACAULT: And your
11 experience, if we go back to the first page, under the
12 heading Utility Regulation, it covers rate and
13 regulatory reviews for electric utilities in various
14 provinces and countries across this country?

15 MR. PATRICK BOWMAN: Yes. But most of
16 my work is in Canada.

17 MR. ANTOINE HACAULT: So we'll see
18 that in Manitoba you've been representing the Manitoba
19 Industrial Power Users Group and -- sorry, preparing
20 evidence with respect to their interventions since
21 1998?

22 MR. PATRICK BOWMAN: I have worked on
23 MIPUG issues since 1998. The first hearing that I
24 prepared evidence and testified in was known as the
25 2001 Status Update.

1 MR. ANTOINE HACAULT: Okay. And I see
2 that on the first page you identify doing work for a
3 utility Northwest Power Corporation.

4 Would you also do work for other
5 utilities?

6 MR. PATRICK BOWMAN: I do. And some
7 that I've done work with on and off, I had -- although
8 I'm not currently involved, I do -- have done work on
9 and off for Yukon Energy. I've done work with the
10 Nunavut Power or Quilliq Energy, it is called. I've
11 done work with Nelson Hydro and some other municipals
12 similar to that, but that's -- that's the main Utility
13 clients.

14 MR. ANTOINE HACAULT: Okay. And I
15 note at the bottom of the first page that you've also
16 done work for some industrial customers in
17 Newfoundland and Labrador.

18 Have you done any work in New
19 Brunswick?

20 MR. PATRICK BOWMAN: I'm currently
21 retained to work on issues in New Brunswick. It's
22 early in the assignment so to date the work is focused
23 on cost of service methods and on smart metres. So --
24 I haven't dealt with that, generally, but yes, I've
25 been retained by industrial customers in New

1 Brunswick.

2 MR. ANTOINE HACAULT: And turning to
3 the second page of your curriculum vitae, could you
4 address your experience in resource plans and
5 hydroelectric projects?

6 MR. PATRICK BOWMAN: Yes, along with
7 appearing at the NFAT, I've been involved in
8 regulatory interventions, either on behalf of
9 Intervenors or on behalf of a Utility for various
10 resource planning topics, capacity planning and
11 reliability load forecasting and the like.

12 MR. ANTOINE HACAULT: And specifically
13 with respect to Yukon Energy Corporation, what was
14 your role in the planning phases of the Mayo B.
15 hydroelectric project?

16 MR. PATRICK BOWMAN: I was the lead
17 project manager for all planning phases on the Mayo B.
18 Hydro project, which was a \$120 million hydro
19 development, and I had overall responsibility for all
20 of the -- all of the budgets and activities occurring
21 during the -- the planning stages including
22 coordinating the work of the various engineers and
23 environmental teams and the like, as well as the
24 financial and business side.

25 MR. ANTOINE HACAULT: Thank you, Mr.

1 Bowman. I'll move now to Mr. Osler and his CV is at
2 appendix 'B' to his evidence.

3 Sir, I understand you've been involved
4 as a principal in InterGroup Consultants since 1974?

5 MR. CAMERON OSLER: Correct.

6 MR. ANTOINE HACAULT: And your areas
7 of expertise include cost of service and rates, and
8 expert analysis -- analysis and testimony at hearings
9 on those issues?

10 MR. CAMERON OSLER: Yes.

11 MR. ANTOINE HACAULT: Your experience
12 would also include socioeconomic assessments related -
13 - and related public consultation in hydro electric
14 projects?

15 MR. CAMERON OSLER: Yes.

16 MR. ANTOINE HACAULT: And with respect
17 to Utilities, would you have done work for any
18 Utilities with respect to rate issues?

19 MR. CAMERON OSLER: Yes, particularly
20 Yukon Energy Corporation over its life since late
21 1980s.

22 MR. ANTOINE HACAULT: Okay. And what
23 about for industrial customers using electricity?

24 MR. CAMERON OSLER: Yes, I got my
25 grounding in it in a hearing in Ontario before the

1 Ontario Energy Board in the late '70s for three (3)
2 industrial customers at a major hearing. I then was
3 involved in a hearing -- hearings in Saskatchewan
4 during the life of that regulatory commission on
5 behalf of industrial customers. I was involved in
6 MIPUG in its initial decade or so in this province and
7 I was initially involved with the work that we've done
8 in Newfoundland for the industrial customers there.

9 MR. ANTOINE HACAULT: And when you
10 mentioned Saskatchewan, could you explain what IPSCO
11 means at the bottom of the first page of your CV?

12 MR. CAMERON OSLER: I forget the full
13 acronym, but it's a steel company in Regina, at that
14 time. It was a major industrial customer in
15 Saskatchewan.

16 MR. ANTOINE HACAULT: Okay. And now
17 if we go to the second page I'd like to focus a bit on
18 advice given to government entities with respect to
19 Utility issues.

20 What provinces would have solicited
21 your advice on Utility issues?

22 MR. CAMERON OSLER: Well, in this
23 province, from time to time, I have certainly worked
24 for Manitoba Hydro on -- in their environmental
25 related issue, sometimes on settlement issues to do

1 with issues with First Nations or review of the status
2 of previous settlements.

3 In the Yukon, I've worked with the
4 Power Corporation and the government. Originally with
5 the government in actually the purchase of the assets
6 of Northern Canada Power Commission by the Yukon
7 government and the setting up of Yukon Energy.

8 Subsequently, on the var -- many of the
9 resource plans and -- and many of the major projects
10 of the Corporation. The Northwest Territories
11 recently working with Manitoba Hydro International. I
12 worked on the North Slave Resiliency study, which was
13 in essence, a study of the issues emerging from a
14 period of drought and the options that might exist in
15 the future for dealing with such issues on a
16 particular system around Yellowknife.

17 I'm currently working with the Gwich'in
18 Council International, work that involves Northwest
19 Territories and Canada on issues for renewable
20 development in the Gwich'in area around the Beaufort
21 Delta. Those are probably a good summary.

22 MR. ANTOINE HACAULT: Okay. At the
23 bottom of page 3 of your CV there's reference to this
24 work that you did for the government of Yukon.

25 MR. CAMERON OSLER: Right --

1 MR. ANTOINE HACAULT: Did it involve
2 legislative issues, regulatory schemes, financing and
3 government charges?

4 MR. CAMERON OSLER: In a simple --
5 yes. It involved the negotiation legislation
6 nationally in -- in Yukon and other -- all the other
7 aspects that go with it in order to make an
8 arrangement for that transfer of assets; that was the
9 first of the series. The -- subsequently, there are
10 ones in the Northwest Territories, et cetera.

11 And some of the principles that were
12 established in that transfer for the management of
13 risk with respect to certain assets have been followed
14 through in subsequent arrangements between the
15 government and the Power Corporation as ways to manage
16 risk in a way that's acceptable for ratepayers.

17 MR. ANTOINE HACAULT: And on page 5 of
18 your curriculum vitae, you go further and explain
19 further planning experience as it relates to Yukon
20 Energy Corporation specifically and related to Mayo B?

21 MR. CAMERON OSLER: Yes, and I
22 referenced that earlier. In the last decade, roughly,
23 there's been a series of major capital projects
24 involving both transmission, the Mayo B. expansion and
25 liquid natural gas plant generation in Whitehorse that

1 we were involved in planning and there actually were
2 hearings before their regulatory body similar to your
3 NFAT process, directions from the government for the
4 regulatory body to please review and report on the
5 justification and options with respect to each of
6 those projects.

7 MR. ANTOINE HACAULT: And if I turn to
8 page 7 of your curriculum vitae, what involvement
9 would you have had in First Nation agreements as
10 regards Utilities?

11 MR. CAMERON OSLER: Well, you can see
12 there that in the 1990s some assistance to the
13 Manitoba Hydro with respect to certain issues. And we
14 did some work in that time period with respect to
15 reviewing the whole Grand Rapids agreements. But more
16 recently, with the Tsay Keh Dene First Nation, and the
17 Kwadacha First Nation working for them in settling the
18 long-standing issues with respect to their impacts
19 from the Williston dam because unlike this
20 jurisdiction here with all the problems that we've
21 had, those people had not actually had any settlements
22 at all for something that took place in the 1970s.

23 MR. ANTOINE HACAULT: And --

24 MR. CAMERON OSLER: And we managed to
25 reach settlements in each case with BC Hydro.

1 MR. ANTOINE HACAULT: And lastly, page
2 8 of your curriculum vitae, you've had experience with
3 respect to the mining sector in northern Manitoba?

4 MR. CAMERON OSLER: Yes.

5 MR. ANTOINE HACAULT: We'll move to
6 Mr. Forrest whose CV should be at page -- attached
7 again to the prefiled testimony.

8 Mr. Forrest, it's my understanding that
9 you've been involved in Canadian federal and municipal
10 public policy and the energy regulatory arena for
11 about twenty-five (25) years?

12 MR. GERALD FORREST: That's correct.

13 MR. ANTOINE HACAULT: And you've had
14 various roles, including being the Deputy Minister of
15 Municipal Affairs, Urban Affairs and rural -- Rural
16 Development?

17 MR. GERALD FORREST: Yes, that's
18 right.

19 MR. ANTOINE HACAULT: And in your
20 capacity as Deputy Minister, you oversaw the creation
21 of a Deputy Minister or senior officer forum which met
22 to discuss inter depart issues related to
23 interdepartmental liaison and collaboration, which
24 included Manitoba Hydro coming in and making
25 presentations from time to time?

1 MR. GERALD FORREST: Yes, that's
2 correct. Prior to that time, the departments of
3 government were more or less individualized in as much
4 they undertook their own particular responsibilities,
5 but certainly from my vantage point being Deputy
6 Minister of Municipal Affairs and Rural Development,
7 it was important and whenever we were dealing with our
8 clients that we dealt with them as a whole party issue
9 in -- inasmuch that we wanted to make sure that all
10 the issues that we were dealt with from the government
11 side were truly represented. And indeed, as the -- as
12 the board took hold at that time, it was important to
13 integrate the -- the plans and operation of Manitoba
14 Hydro, particularly, on using land and the
15 environmental considerations.

16 MR. ANTOINE HACAULT: And am I correct
17 in understanding that part of your role as Deputy
18 Minister was to support and encourage economic
19 development initiatives for rural Manitoba?

20 MR. GERALD FORREST: Yes, that's
21 correct.

22 MR. ANTOINE HACAULT: And I'll hit a
23 couple other points.

24 It's my understanding that you were the
25 past chair of the Canadian Association of Member of

1 Public Utilities, what -- and as in this industry we
2 refer to CAMPUT.

3 MR. GERALD FORREST: Yes, I have been
4 -- I was chair of CAMPUT on a couple of occasions over
5 my tenure as Chair of the Board here in Manitoba and
6 through that organization we try to -- and I'm a
7 honorary member today, but we try to help and assist
8 all boards across Canada in so far as understanding
9 their roles, the changing needs in this particular
10 arena and making sure that all of the boards are
11 informed on what's happening across Canada.

12 MR. ANTOINE HACAULT: And were you
13 involved in a world forum organized by that
14 organization CAMPUT?

15 MR. GERALD FORREST: Yes, I was on the
16 organizing committee, was chair of the organizing
17 committee for a while as well. Unfortunately, the
18 chair had passed away, and it was the first world
19 forum was held in Montreal.

20 MR. ANTOINE HACAULT: And it's my
21 understanding that you've lectu -- lectured both
22 nationally and internationally in the field of public
23 administration, public utility regulation, and that
24 you've served as University gue -- guest lecturer and
25 conference workshop speaker across Canada and the

1 United States?

2 MR. GERALD FORREST: Yes, that's
3 right.

4 MR. ANTOINE HACAULT: And since 2004,
5 you have continued to be involved in energy policy and
6 Utility rate matters throughout North America and
7 you've continued to provide strategic advice to
8 Utilities, regulators, government departments, private
9 industries and other stakeholders?

10 MR. GERALD FORREST: That's correct.
11 Indeed, when I left the Board in 2004 and I let my
12 colleagues across Canada and United States know I was
13 leaving the board, I was offered shortly thereafter a
14 contract to work for a government in Canada and I have
15 continued with that government since that time.

16 MR. ANTOINE HACAULT: Members of the
17 Panel, please feel free to ask any questions of any of
18 these witnesses as they're making their presentations.
19 The presentation is before you. It'll be initially
20 introduced by Mr. Bowman and then Misters Forrest and
21 Osler will address their evidence, and then it'll be
22 followed, again, by Mr. Bowman addressing the balance
23 of the slides.

24 There are one (1) or two (2) natural
25 breakpoints in that evidence, so I'll try to keep an

1 eye on the clock and -- and suggest an appropriate
2 time to break around 10:30. With that --

3 THE CHAIRPERSON: Thank you, Mr.
4 Hacault. Mr. Bowman...?

5 MR. PATRICK BOWMAN: Thank you, Mr.
6 Chair. The direct examination has been pulled up on
7 the screen, MIPUG-26. And I -- try to make reference
8 to the slide numbers as we move through it for the
9 benefit of the transcript.

10 If we move to slide 2. As an initial
11 introduction, you'll see that we listed there the
12 exhibit numbers and the exhibits that were prepared
13 and that we have before you today. The intent of the
14 direct is to go over the materials that were prepared.
15 There is some comment I would say informed by new
16 issues arising from the proceeding or new information,
17 but there -- there -- the intent is not to provide any
18 new analysis.

19 And just as a sort of matter of
20 introduction, as you can tell from the review of -- of
21 resumes, this has been a -- a long-standing MIPUG
22 assignment for Mr. Osler and I and we've sought to
23 approach the project the same way as we've approached
24 previous MIPUG GRAs and -- and -- and similar
25 hearings. Review Hydro's proposals in light of

1 regulatory principles appropriate for a Crown Hydro
2 Utility and take a long-term perspective, that is, an
3 approach that has been asked of us by the clients and
4 it's been consistent. The clients have focused on --
5 on stability and a principled approach from the
6 outset, and they've -- they've continued to give us
7 that broad set of marching orders, if you like.

8 At its core, one (1) of the fundamental
9 perspectives that I think overrides this and I'll say
10 possibly a -- frames the issue a bit different than a
11 Court of Appeal quote you heard earlier, which is from
12 the perspective of -- of -- my perspective and I
13 believe from the perspective of the customers that
14 I've heard it. They don't necessarily view these
15 hearings as a contentious issue of at odds of customer
16 interest being competing with Hydro; that somehow
17 implies that Hydro's side looks out for Hydro's
18 financial interest and customers ought not care about
19 Hydro's financial interest. I don't think that's an
20 appropriate summary of our approach or of the way a
21 customer would view it. Hydro's financial strength
22 and ability to deliver stable rates is very important
23 to customers.

24 And likewise, I would say customer
25 interests and the ability to keep operating and be

1 competitive in Manitoba is central to Hydro's ability
2 to operate. So I don't think we have approached this
3 as -- as quite the same competing set of interests as
4 -- as perhaps is -- it's framed in other places. And
5 I'll say that that does stand out quite uniquely
6 compared to other places where we work, where you will
7 have a private-sector utility and there is a distinct
8 difference between the investors' interests and the
9 customers' interests. Manitoba, we don't have that --
10 that same distinction. And -- and at times you can
11 get into grey areas, even with government companies
12 which have an investor or a quasi private type of
13 outlook where the government would earn a return on
14 equity from the Utility. We don't have that in
15 Manitoba.

16 Moving on to slide 3. The immediate
17 reaction on receiving and reviewing the GRA is that it
18 reflects a fundamental change in perspective from
19 Hydro. It's critical to make clear that this is, at
20 its core, can be understood as a difference between a
21 ten (10) year versus a twenty (20) year outlook. And
22 if -- I'm trying to find the right words, I noted
23 there that every -- every other issue is effectively
24 subservient subverted to this issue. Once you put in
25 place a determination that you need to get to 25

1 percent equity within ten (10) years, every other
2 issue pales because you've just set yourself the
3 challenge of finding an extra 3 1/2 billion dollars
4 above costs within ten (10) years, and that trumps
5 everything.

6 And it drives you to need rate levels
7 that are way beyond what has been seen before, way
8 beyond what is understood normally in terms of
9 reserves, which you would've heard from Mr.
10 Colaiacovo, where Hydro would make a profit through --
11 through good and through bad, no longer has a reserve
12 model. It drives you to places where, once you reach
13 the end date, you have to think about dramatic moves
14 to deal with the fact your rates are so high, like, 25
15 percent rate decreases, as Hydro models in many
16 scenarios, or others -- other approaches like Boston
17 Consulting highlighted.

18 As a result of identifying this is the
19 key perspective, you know, early on, we thought it
20 very important to deal with the perspective question,
21 and it's -- it's part of the reason that we'll be --
22 we have Mr. Osler and Mr. Forrest here today, which
23 has -- has not been a part of MIPUG's GRAs in the
24 past.

25 I have referenced there the documents

1 we'll be using and relying on as part of what does the
2 consistent perspective look like at the time of -- or
3 the evidence, we used PUB/MH-134 attachment 2,
4 partially because it has such an elegant moniker.
5 It's -- it still has issues.

6 We've now, through this hearing, had
7 some runs done which have resolved some of those
8 issues. They're now known as Exhibit MH-93, and
9 you'll see some of the materials have been updated to
10 deal with the MH-93 scenario, which has, instead of
11 3.95 percent rate increases, three point five-sevens
12 (3.57s). And it -- I -- I would say that's the most
13 consistent scenario with what this Board last dealt
14 with in terms of MH-14.

15 Moving to slide 4, just so we can keep
16 the -- the perspective that we're trying to look at
17 these things over a longer term, I thought it
18 important to highlight that the last GRA which was
19 based on MH-14, I did submit evidence which is
20 available, and -- and could be reviewed, focused on
21 the fact that IFF14 needed to be viewed in the
22 circumstances and the context of what Hydro was taking
23 on, and given the circumstance and the context, it
24 portrayed a Hydro that was doing spectacularly well.

25 And as you'll see at the bottom, my

1 focus was on the fact that within a decade, Hydro was
2 looking to absorb five (5) massive impacts, each of
3 which should be thought of as a huge hurdle, together
4 were a -- a massive change to the structure of the
5 Utility, and it was being achieved with no assistance
6 from the government side, even though past
7 developments in other jurisdictions have had that type
8 of assistance, and was being achieved in meeting
9 certain financial targets which are set out on the
10 right-hand side. And in light of -- of the context of
11 the IFF, my comments were MH-14 was -- was doing very
12 well, and we'll be doing some comparisons to MH-14 as
13 we move along.

14 At this point, I think it's best to
15 turn the mic over to Mr. Osler and Mr. Forrest to deal
16 with their section of the presentation, and then I
17 will -- I will return for the part that goes over the
18 -- the core of my exhibits.

19 MR. CAMERON OSLER: So moving, Mr.
20 Chairman, to slide 6, I'll talk about the focus and
21 approach we've taken. I'll go through some material
22 on Manitoba Hydro's history, because I'm -- we're
23 going to be talking about history. Mr. Forrest will
24 go through perspectives from the Board side on the
25 same history, and then we'll try and summarize what we

1 think we draw from that, and how it may apply to the
2 current situation.

3 Our focus has been on Hyd -- what we
4 call Hydro's new financial goal in our evidence,
5 MIPUG-14, which is described as recovering to 25
6 percent equity level by fiscal 2027. This new goal,
7 from our point of view, drives the requested rate path
8 plan with its increases of 7.9 percent in the two (2)
9 test years, and 7.9 percent in several other years in
10 order to reach this new goal by fiscal 2027 with a --
11 with a 61 1/2 percent cumulative rate increase over
12 the ten (10) years in the original application.

13 The fact that this goal is what drives
14 the plan was demonstrated by the -- the Corporation's
15 response to your interim order, which granted 3.36
16 percent, and the response was, We still have to meet
17 this goal. We have to change the rate path now so
18 that the cumulative increase over the ten (10) years
19 is going to be 77 percent, because we have to reach
20 this goal. The goal is what drives the rate path.

21 From our prospective, it ref --
22 reflects a material change in the timing for Hydro's
23 long-standing financial objectives. And when I use
24 the word "long-standing," I'm going back to the 1980s
25 and 90s, not just back to NFAT and other recent

1 events, which -- there's a lot of evidence on how it's
2 changed since then. And from our perspective, this
3 type of a -- an approach presumes, in order to get
4 approval from this Board, which is what's required for
5 it to be implemented, presumes a major change in the
6 Board's principles for approval of rates.

7 Our focus in terms of what we've been
8 trying to do is to assist -- try and assist the Board
9 by providing relevant historical and regulatory
10 context. The 1988/1996 time period is -- particular
11 is focused on, because that is the time period this
12 Board was active and developed a series of principles
13 which we think are still relevant today. It was also
14 a period that was contextualized by things that
15 happened before, and we'll talk about the early '80s
16 and late '70s, and there will be some references to
17 some things after that time period just to make
18 connections.

19 1996, why stop there? Because after
20 that, as we'll go through, there was no rates changes
21 for -- after the 1996 hearing for several years. The
22 rate principles were established between 1989 and 1996
23 to a large extent, and the experience of that year is
24 what we think could be of assistance to the Board
25 today.

1 MIPUG first appeared and was created as
2 such in 1988 for the first report that PUB receive --
3 did for the Minister before it got its new
4 legislation. This Board received its new mandate to
5 be responsible for Hydro's rate changes and to make
6 approvals of them in 1989. Hydro's financial goals,
7 as I will go through, evolved during this time period
8 from 1984 to 1995, and the 25 percent equity ratio
9 target emerged for the first time in 1995, and was
10 reviewed by this Board for the first time in the
11 hearing in 1996.

12 1989/1996 PUB decisions, in our view,
13 set out the key principles for rates and target
14 reserves for Hydro over the time period. Mr. Forrest,
15 who will come along, joined this process in 1992 in
16 terms of the Chair, but from my experience, he was
17 already there in his deputy role in the government
18 before that, and he'll share those perspectives as
19 well.

20 Going the next slide, 7, briefly, I
21 will go through the Manitoba Hydro mandate, and
22 reserves and rates, and that patch -- picture before
23 Mr. Forrest goes into the PUB side. We are dealing
24 here with a Crown utility that is regulated today in
25 its rates and has customer-funded reserves. By my

1 experience dealing with various people from time to
2 time, the concept of a regulated utility often takes
3 some time for people to get used to the concepts. A
4 privately regulated utility with at least a
5 shareholder putting in money, and having a regulated
6 rate base, and all that type of stuff, people can get
7 their minds around a certain point.

8 A Crown utility usually requires
9 another stage of evolution, as it did in this
10 Province. The concept of ceding cabinet control to an
11 outside body is sometimes a matter for debate in
12 certain jurisdictions from time to time. And even
13 after you've ceded, how do you manage it?

14 A Crown utility that is regulated, that
15 has customer-funded equity or reserves, as Mr.
16 Colaiacovo said, this is unique in Canada today. It
17 wasn't unique twenty (20) or thirty (30) years ago to
18 the same extent, but it is really something quite
19 different, and it requires thinking through how you
20 want to deal with that difference from the point of
21 view of financial targets and rates.

22 Effectively, from the point of view of
23 the customers, it's their money that is making the
24 equity for the shareholder, which is the government,
25 and the customers have an interest in this company

1 being successful in the sense of resilient, but they
2 don't have an interest in the company being successful
3 in the sense of paying out a whole bunch of extra
4 money to the shareholder, particularly when they're
5 putting up funds. So this is quite different.

6 We reviewed in our evidence the
7 Manitoba Hydro Act, provisions which have been there
8 all the way along, and they make the points that this
9 is, indeed, a recovery approach for rates. It
10 includes provisions for reserves. It talks about what
11 reserves are for, including helping to stabilize
12 rates, and in our view, the primary objectives, as
13 evidenced in that Act for Hydro reserves, are to allow
14 for the stabilization of rates, to provide for the
15 funding -- sinking funds, and to help fund new or
16 replacement construction assets.

17 KPMG, in its 2014 report, addressed the
18 -- this mandate and commented on it. And in its own
19 words, described it as unique financial objectives.
20 They talked about retained earnings effectively
21 equaling reserves, and made the point that there's no
22 expectation of a shareholder equity funding or a
23 shareholder dividend in the concept, and it made the
24 clear point the private sector utility financial
25 targets are simply not applicable to this

1 organization. Sometimes these things boil down to how
2 distinctive the mandate is.

3 Next slide, number 8, Hydro financial
4 targets and how they evolved over the decade
5 1984/1995. And really, there's three (3) steps in
6 this evolution that I'm going to describe, one (1) in
7 '84/'85, one (1) in September '89, and one (1) in
8 September '95. The first step was effectively the
9 Board of Directors in each case making these changes.
10 The Board of Directors of Hydro said, We're going to
11 build reserves, 180 to 200 million for a two (2) year
12 drought, no time period target. Just, We're going to
13 get some reserves for -- to cover a two (2) year
14 drought.

15 The distinctiveness of this, Mr.
16 Brennan, the president at the time, described to this
17 Board in the 1988 hearing and reported in the Board's
18 report, he said effectively that the 1986 rate
19 increase of 2.8 percent was the first time in the
20 Company's history that it had a rate increase solely
21 to build up reserves. This was an important change.

22 In September 1989, by -- at which time
23 this Board, now your Board, has received its mandate
24 to approve the rates of this Corporation, any changes
25 to those rates, the Board of Directors of Hydro came

1 up with some modifications to its financial targets,
2 came up with what it called short-term and long-term
3 financial targets. I'm not going to discuss them all,
4 but the ones that are relevant to our conversation
5 included the following: In the short term, a minimum
6 retained earnings target, MRET, which included the
7 1984 type of drought provision for two (2) years, but
8 it included self-insurance as well, which this Board
9 had recommended in its previous report to them that
10 they should think about. And it had a timing target,
11 now, for 1995 to achieve this.

12 Effectively, at the time it was
13 discussing this with the Board, its reserves were
14 about 130 million forecast, with a 97 percent debt
15 level, and this target that they were talking about by
16 1985 would require about 370 million, or almost three
17 (3) times the reserves they had at the time they were
18 talking about setting this target.

19 They also came up with a long-term
20 minimum debt/equity target of 85/15. I want to make
21 the point that the Board of Hydro made the point that
22 both of these targets were to occur within a -- a
23 rate-stable framework, with rates closely aligned to
24 inflation. The target for the 85/15 debt equity was
25 to be striven for ten (10) years after they achieved

1 the minimum retained earnings target. In that
2 proceeding, they provided an IFF89/3, which is at the
3 back of the Board's report for the 1990 hearing.
4 85/15 was going to be achieved in twenty (20) years
5 from the date of that hearing. It was going to have
6 about 1.4 billion reserves, and it was occ -- going to
7 occur after eight (8) years of losses during that time
8 period, two (2) for the Limestone project, and six (6)
9 for the Conawapa project, which was then in the
10 planning and expect -- expected to be developed phase
11 in that twenty (20) year time period.

12 They also provided a version of 89/3
13 IFF which said, What happens if the government repeals
14 Manitoba Energy Foundation Act, MEFA, M-E-F-A? If
15 they were to do that, which would allow certain funds
16 that were being siphoned off by the government from
17 exports to stay within the Company and help build
18 reserves. If they were to do that, the Corporation
19 forecasted that the 85/15 target could then be
20 achieved under all the same assumptions and rate
21 increases by 1998. That MEFA was, in fact, repealed
22 in March of 1990.

23 The third stage in the evolution of the
24 targets of the Company, September 1995, the Board of
25 Directors set out some new targets, which included for

1 the first time the 25 percent equity ratio target, and
2 the goal to achieve and maintain this target by the
3 fiscal year 2006. In March of '96, when this was
4 reviewed by the Board, the forecast retained earnings
5 for that year were 343 million. They still hadn't
6 receive -- achieved the minimum retained earnings
7 target, which at that time, if you updated it for all
8 the factors, would be about 650 million. They were
9 just over 50 percent of the way on -- towards getting
10 that. So the interesting question to ask yourself is
11 why did this 25 percent target come up at that time,
12 given where they were with the minimum retained
13 earnings? And we'll discuss that in a minute.

14 Going to the next slide, number 9, what
15 is the actual history of the reserves and the long-
16 term debt during the period from the early '60s to the
17 2010? What are the -- the facts? Well, the 1960s --
18 to -- I'm going to talk about this in two (2) steps,
19 the 1990s -- early 1960s to 1996, and then what was
20 happening after 1996, because they're quite different.

21 In the 1960s to 1996, Hydro equity --
22 or reserves were consistently less than 10 percent.
23 In fact, in the late '60s and -- and through late '60s
24 until after 1997, they consistently were always below
25 that level. In fact, in many of these years, they

1 were below 5 percent. This is an era of major
2 Northern development for Hydro in the '60s, and then
3 it -- along came Limestone.

4 Limestone had a limited initial
5 construction that took place from 1976 to '78, and
6 then they just stopped, because there wasn't enough
7 market. It wasn't making -- it wasn't going to make
8 sense to keep going, which is one (1) of the few cases
9 you've seen of somebody actually stopping a project
10 after they've started building it. It restarted in
11 1985, when the NEB approved a 500 megawatt export to
12 NSP in -- in Minnesota, and then eventually, the first
13 units started to come on in 1991, and all ten (10)
14 units were on by 1993. So the evolution of that
15 particular project and other things like that led --
16 during the period 1980/1992 -- to a -- more than a
17 doubling of Hydro's long-term debt, from 2.4 to 5.4
18 billion. So we've seen doubling of debt before, and
19 this was one of the eras for it.

20 This was a period that also included
21 low water in the late '70s and the late '80s. One (1)
22 of the worst drought time periods in the Corporation's
23 history was in the late '80s. And it also included
24 major escalation in Provincial charges, which we'll
25 talk about later. Hydro reserves mathematically, or

1 turned into dollar numbers were, you know, 42, 57
2 million in the period 1970 to '78, not a lot better
3 thereafter in the '80s and '90s. And by 1996, as I
4 said, they were up to about 343 million.

5 The thing that you don't get from those
6 numbers is what's changing in the background. What's
7 changing in the background by 1996 is that interest
8 rates have come down, which we'll talk about. This
9 Board is now in charge of rates after 1989, so the
10 great turmoil that we saw before starts to get
11 changed. Conawapa, which had been forecasted in all
12 the forecasts in the '89 -- '89 forecast, '90, '91,
13 '92, it's killed in 1993. Can -- the contract's
14 cancelled. You take Conawapa out of the far --
15 forward planning, the IFFs and the reserve
16 requirements to achieve target suddenly drops
17 dramatically.

18 As the interest rates drop, issues drop
19 dramatically. And then you start looking at the rate
20 increases that the Corporation is forecasting in its
21 IFF beyond the test years, beyond the years that the
22 Board's making a decision, and you see these drop from
23 being, you know, 4 or 5 percent for many years
24 starting to become 3 percent. By the 19 -- IFF91/4,
25 all of a sudden, we're talking 1 percent. That's all

1 we'll require for most of the forecast time period.
2 In the 1993-3 IFF, just give me the -- the rate
3 increases I'm looking for in the one (1) or two (2)
4 years I'm before you, and we don't need any rate
5 increases after that. Well, guess what? Once people
6 started looking at that, Maybe we should have a higher
7 equity ratio? Maybe we should have a 25 percent
8 equity ratio, if the world's going to get that good,
9 and we should put that money away for a rainy day.
10 That perspective is very important as to how the 25
11 percent target emerged.

12 After 1996, there are sustained reserve
13 growths. In fact, from '96 to 2002, and again from
14 2005 to 2008, they just go up, up, up. The fiscal
15 2001 retained earnings, about 1.1 billion, with a
16 debt/equity ratio, in fact, of 80/20 versus the IFF95
17 slash -- dash 2 forecast of only 506 -- \$516 million
18 per retained earnings in that year, with all the rate
19 increases they had in that forecast. This is all
20 occurring after drought and recovery that took place
21 in the 2000s, where they finally achieved the 25
22 percent equity target in 2008, and again in 2010 to
23 '13. Five (5) years out of all the time period we've
24 talked about, we've actually had this target achieved.
25 The key wasn't increases in rates, it was increases in

1 export prices.

2 The minimal long-term debt repayment,
3 there wasn't much, and there was minimal reliance on
4 rate increases. There were no rate increases from
5 1998 to 2004, and the cumulative rate increase that
6 was approved from 2005 to 2009 averaged less than 3
7 percent a year. So it's quite a radical shift.

8 And we have two (2) slides. Next one,
9 number 10, shows the picture that I've been talking
10 about to do with equity ratio. You can see that
11 during the time period at the beginning of the slide,
12 it's less than 10 percent all the way through until
13 the year 1997, when it finally goes above the 10
14 percent line. And in many of those years, you can see
15 it's hovering around the 5 percent line. Then it
16 takes off, and it climbs. And then it comes down
17 again, briefly, with a drought issue, and then it
18 climbs again with some rate increases, finally. And
19 then it comes down again with -- and we see it
20 climbing to the sky on the right-hand side with the
21 proposals of the Corporation.

22 Those -- that graph, to me,
23 demonstrates two (2) things. Where we are today with
24 all the issues we're talking about is a lot better
25 than where we were when I was appearing in the late

1 '90s, middle '90s, early '90s, late 2000 -- eight (8)
2 -- eighteen (18) -- 1980s. The worst cases that we're
3 talking about are so much better than people had back
4 then, that it isn't even funny. And the issue on the
5 right-hand side of climbing, climbing, and climbing,
6 it -- it creates all sorts of questions from the point
7 of view of regulation of any utility, let alone a
8 Crown-owned one that has -- it's using customer funds.

9 Next slide, please. This one looks at
10 the long-term debt. It's just a picture that gives
11 you the feel for it. You can see that the long-term
12 debt did, in fact, double in the late 1980s. As I
13 described, it was pretty stable for a while. It went
14 up again in late 2000, 2002/'3. It's pretty stable
15 for a while. And it's been climbing since then, with
16 all the new stuff. We're about halfway through the
17 climb.

18 Again, though, we don't see it going
19 down in all that time period in terms of long-term
20 debt being repaid off, until you get to the forecast
21 for -- that's been provided to you in this application
22 when it suddenly trails down, and within the picture,
23 you can see it's almost getting back to where it was
24 when we started. That is not a perspective, again,
25 that's consistent with long-term assets of a hundred

1 years. And -- and looking at from a customer point of
2 view and the regulatory point of view of the 1980s and
3 '90s, where we're not trying to make this generation
4 of people pay off everything. We're trying to make it
5 fair over the life of the assets and the overall
6 development within this Province.

7 So that's the perspective from the
8 point of view of reserves, and rates, and -- and the
9 whole mandate of the Corporation. Mr. Forrest will
10 now deal with the review of some of the history from
11 the point of view of the PUB itself. Next slide.

12 MR. GERALD FORREST: Mr. Chair and
13 members of the Board, I would say you that this is the
14 place I expected to be when I left that chair years
15 ago. This -- I'm here today because I think it's such
16 a serious matter that is before the Board. I -- from
17 my particular point of view, I'm glad you have that
18 responsibility and not me. So from that perspective,
19 I'm really pleased to be here today.

20 What I'm going to try and do is give
21 you a little background of some of the reasons why
22 we're in the situation we are today. And recognizing
23 we have limited time, I'll try to stick closely to my
24 notes. The Crown Corporation Governance and
25 Accountability Act was passed in 1988/'89. That's

1 chapter 23, and given a royal assent on December the
2 20th, 1988. In doing the background here, I note that
3 in June of 2017, the Act was repealed, and a new Act
4 was passed, and section 25(6), dealing with Efficiency
5 Manitoba is yet to be proclaimed.

6 From where I sat at the time the Act
7 was passed, and that was next door to the Minister,
8 the Act that was the government's response to two (2)
9 public issues related to the two (2) top Crowns of the
10 day. That was MTS on one (1) hand, and Manitoba Hydro
11 on the other. The MTX affair, as it was named then,
12 was is MTS undertaking commercial activities abroad
13 and losing significant monies.

14 And then secondly, the issue in
15 Manitoba Hydro had 35 percent rate increases over the
16 five (5) year period '83 to '87 and on which the
17 public had little or no input and culminating with the
18 push back of a 9.8 percent rate increase in 1987
19 forced the government to act.

20 Following the Manitoba Hydro Justice
21 Tritschler inquiry report of 1979, which was less than
22 complementary to Manitoba Hydro, and the news release
23 of the day, which I thought was quite interesting.

24 And I quote:

25 "Improper and poorly scheduled Hydro

1 development programs in Manitoba,
2 accompanied by both
3 misrepresentation by some senior
4 officials and uninformed political
5 interference have resulted in
6 significant and unnecessary
7 increases in consumer power rates in
8 Manitoba, the Tritschler inquiry
9 into Manitoba has found."

10 It is also interesting that
11 notwithstanding the activities of Tritschler and the
12 inquiry and his report and recommendation,
13 notwithstanding this inquiry and recommendation, no
14 legislative authority was provided to PUB relative to
15 capital undertakings. To me that was a notable
16 absence in the government Act.

17 In -- and when I go down the slide that
18 we have, PUB approval was then granted and the Board
19 had the responsibility to determine Hydro's domestic
20 rates. The -- as Mr. Osler said in his evidence that
21 the prime responsibility here was to ensure that
22 revenues were sufficient to cover all expenses, as
23 well as other payments that were required of Manitoba
24 Hydro to the province, and the development of the
25 reserves.

1 There was -- the Board was also given
2 the authority at that time to consider any compelling
3 policy considerations or any other factors the Board
4 considered relevant to the matter in reviewing rates
5 for Manitoba Hydro. In the lead up there was
6 tremendous amount of rate turmoil in the prior decade.
7 That is the complete decade of the 1980s, which
8 generated a significant amount of public controversy.

9 In -- including in that time there was
10 increasing Manitoba government water rental and other
11 charges. Insofar as the water rental charges, 46
12 percent increase occurred in April 1986, and a further
13 147 percent increase in April of 1987. The horsepower
14 rate for water rentals was one dollar and twenty-five
15 cents (\$1.25) in 1980, and it moved up to nine dollars
16 and ninety cents (\$9.90) in September 1989. And that
17 information is included in Order Number 43/'90.

18 The debt charges increased in 1990 from
19 one-eighth (1/8) of 1 percent to a quarter of a
20 percent, again doubling. And -- and again, it went to
21 fifty (50) basis points on April the 1st, 1983 --
22 1993. Capital charges, as you well know, the --
23 Manitoba Hydro for a number years was exempt from the
24 capital charges -- the capital -- that exemption was
25 removed in 1994, which required payment in 1995/'96 of

1 approximately 25 million.

2 As background here, Limestone came into
3 service, the first unit, in September of 1990, and all
4 ten (10) units in service in September of 1992. As a
5 result, charges to the income statement of Limestone
6 in Board Order 95/'92 was forecasted to be 72.6
7 million, which was forecasted to contribute to the
8 Corporation's loss of 17.3 million in that year. It
9 is also important to note that low water and the
10 minimum retained earnings target was 310 million,
11 while the forecast revenue reserved, or the
12 stabilization reserve at that time, was about 160
13 million.

14 Manitoba Hydro approved a minimum
15 retained earnings target in September of '89 that was
16 short-term for drought and self-insurance, and in 1992
17 was 370 million for the 1994/1995 timeline, even
18 though at that time MIPUG suggested that the reserves
19 should be about 500 million.

20 When I was preparing this slide, I also
21 thought I'd look at what happened in inflation because
22 I remembered inflation in that period was somewhat
23 wonky. And, indeed, inflation in 1974 was 11 percent;
24 in 1980 it was 10 percent; in 1983, 5.8 percent; in
25 1987, 4 percent; in 1989, 5.1 percent; and then 1992

1 it was 1.4 percent. And so when you're looking at the
2 figures here you note that we went through quite a
3 turmoil at that particular time with respect to CPI.

4 Hydro rates in 1970 through to 2003,
5 Mr. Osler canvassed a fair bit of it. But there was a
6 lot of controversy started around 1978 and '79, when
7 we had two (2) years where there were big rate
8 increases of 14.5 percent the first year, and 14.9
9 percent in the second year. And then the -- it was
10 following that that the rate freeze occurred in 1979
11 and continued to 1983. And as Mr. Osler also
12 indicated, the energy stabilization reserve was in --
13 the reserve -- or Energy Stabilization Reserve Act was
14 passed, and it was subsequently appealed re --
15 appealed a number of years later.

16 In the rate approvals in that period of
17 time, they had two (2) things. The rate increases
18 were significant on one (1) hand, and the Tritschler
19 report was undergoing -- the inquiry was undergoing.
20 There was a great deal public chatter about that. And
21 so the issue in -- it was pretty upsetting for the
22 public at that particular time.

23 And it was really only -- he started in
24 19 -- August 1985 when the construction of Limestone
25 resumed by Manitoba Hydro as a result of the National

1 Energy Board providing a permit for the export sale of
2 500 megawatts of power from 1993 to 2005 to the
3 Northern States Power Company of Minneapolis as a
4 result of the initial construction activity between
5 1976 and 1978.

6 The project was able to commence
7 redevelopment directly on the principal structures, as
8 much of the supporting infrastructure required for
9 construction activity had already occurred. The
10 plant, as I indicated earlier, had full operation in
11 1992.

12 Historically, also, there was a big
13 issue in 1990 where there was a sale of a 1,000
14 megawatts to Ontario Hydro covering the period
15 starting in 2000. So construction commences on
16 Conawapa. Agreement cancelled in 1992, resulting in
17 the postponement of the project.

18 In 1992, Hydro president confirmed
19 Manitoba Hydro's objective was to propose rate
20 increases closely aligned with the prospective rates
21 and inflation, and the objective to meet the minimum
22 retained earnings target of 370 million, no later than
23 1995/'96, which was one (1) year postponement from
24 their original schedule.

25 The financial results of the

1 Corporation in 1993 started to show significant
2 improvement as a result of the sale to Northern States
3 Power. In 1994 rate objectives were essentially
4 unchanged from the financial objectives of 1989. That
5 is, to reach a debt equity of 85:15 by March 31st,
6 2005, and to maintain an interest coverage metric of
7 115/125, which was to reach a retained earning
8 sufficient to withstand the negative financial effects
9 of a two (2) year drought equivalent -- worst on
10 record, together with a maximum loss under the self-
11 insurance program of Hydro. When applying these
12 financial objectives, the required retained earning
13 target was 650 million.

14 In 1995, before the Board at that time,
15 find -- Hydro presented its new financial objective,
16 which was to achieve and maintain a debt equity of
17 75:25 ratio in 2005 and '06 and an interest coverage
18 ratio 125:135, which was ten (10) bases higher than
19 previously. And the reason for the -- the change in -
20 - in debt equity target was they wanted to fund all
21 capital construction requirements from internal
22 revenue sources, except during a period of new
23 generation and transmission facilities being added to
24 the system, which we're seeing today.

25 In 1996 the projected rate in retained

1 earnings with 343 million, even short of the original
2 objective. And the minimum retained earning target
3 was identified as 650. The Board at that time
4 accepted directionally the target of Manitoba Hydro,
5 that is 85:15 in Board Order 51/'96, but indicated
6 that they would evaluate the reasonableness of the
7 long-term target of 75:25 once Hydro had achieve the
8 85:15 target. The Board approved rates as noted in
9 51/'96 of one-point-three (1.3) versus one-point-five
10 (1.5) for each of those years.

11 In the period of 1997 through to 2003,
12 while there was really limited changes in the rate
13 scenario, there was a number of other things and under
14 -- were undertaken at the time. Manitoba Hydro
15 required Centra Gas, and that was number 1. And
16 number 2, Manitoba Hydro acquired Winnipeg Hydro. And
17 lastly, one (1) of the other significant events that
18 occurred at that time was the special payment to the
19 province of 288 million.

20 Mr. Osler...?

21 MR. CAMERON OSLER: So just staying
22 with slide 13 for one (1) second. The numbers are
23 there that show how much the turmoil was there pre-
24 1989. Big increases, rate freeze, a bunch more big
25 increases much faster than inflation. In the

1 background there's elections going on. There are --
2 the government changed in 1977 when Mr. Lyon came in.
3 The government changed again in 1981 when Mr. Pawley
4 came in. Again in '86, and then Mr. Filmon came in in
5 '88 and was around for a while.

6 So effectively, there's a lot of change
7 going on. And you can see how the rates that are
8 applied for versus approved by the Board -- the
9 variations over the period 1989 through 1996, but also
10 how the -- the numbers come down, both applied for and
11 approved.

12 And as I said, in 1996, we suddenly can
13 see the bright future in front of us. We're past a
14 lot of these problems and we have this new target and
15 the new rates. But those rates that you see that were
16 reviewed, applied for, and approved for the test
17 years, there was also a forecast that included rates
18 for every year going forward to get to the target. In
19 fact, there were no more rate applications for a long
20 time, because the world got so much better with the
21 export prices.

22 The next slide, please. The summary of
23 the picture for the time period of the rate changes
24 versus CPI is in this graph. And you can see how it
25 was flat for a few years in the beginning, the actual

1 red line. And then it was growing a bit faster than
2 inflation. Then it got very stable for another time
3 period, 1990 through to 2004. And then it starts to
4 climb again.

5 And you can see the choice that emerges
6 from trying to achieve something in ten (10) years
7 versus a longer time period very dramatically from the
8 point of view of rate escalation later on, for the
9 period that's before the Board. What you don't see
10 there is what happens after that time period when you
11 get to the -- this wonderful target within a certain
12 time frame. What happens to rates? Do they just stay
13 flat? Do they go down? Very interesting from the
14 point of view of the consumers who are the people
15 providing the equity reserves for the company. If
16 you're going to put them way up then what are you
17 going to do with them when you get to your target?

18 Next slide, please. So we'll start
19 summarizing. First of all, from the point of view of
20 rate principles and the decisions that the Board made
21 from -- this Board made from '89 to '96. Overall, I
22 think we could summarize it as a balancing of
23 interests of current and future domestic ratepayers.
24 The people who pay for the equity.

25 Current day rates and ratepayers, a

1 target for rate changes at or under inflation. The
2 Corporation supported that. The Board enforced that.
3 And certainly the Intervenors argued for that, if not
4 lower. This priority was retained by the Board, even
5 in a period -- throughout the period when the minimum
6 retained equity target, the protection against
7 drought, was not yet being met, and not just by little
8 bit.

9 Future rates and ratepayers, a target
10 for longer term rate stability and predictability.
11 The Board talked about this consistently. So did the
12 Corporation. So did the Intervenors. Equity retained
13 earnings are customer reserves to address longer term
14 rate stability for the benefit of everyone, including
15 the customers.

16 A high-priority to a specific minimum
17 retained earnings target and reserves for the worst
18 drought and self-insurance was a focus of this Board
19 that it got the Hydro Board to adopt, and everybody
20 paid a lot of attention to, even if they couldn't move
21 to it very quickly.

22 Equity ratio targets supported the
23 concept of added reserves as a cushion, when feasible,
24 without rate increases that exceed inflation. As --
25 as distinct from stopping rates or reducing them,

1 Okay. If we don't have to have rates bigger than
2 inflation and we've achieved our minimum target and
3 we've achieved the 85:15, okay. et's have a bigger
4 question of the ratepayers who are paying for it.
5 That's the principles as we see them emerging from
6 this era.

7 The timing to achieve short or long-
8 term financial targets was adjusted as needed.
9 Patient and calm approach, rather than sharp rate
10 changes response to new events or new -- new targets.
11 A message to financial markets, as well as the
12 customers, of rate stability and sustainability of
13 Hydro's operations. And a process of regular updates,
14 review, and readiness to adjust if and when needed to
15 address the clear, current, and specific new challenge
16 to Hydro's ability to fund its cash operations.

17 Now, when the Board does not meet --
18 when Hydro is not meeting its minimum targets, you can
19 be sure it's going to come back. We saw what happened
20 as soon as it didn't have that problem. It didn't
21 come back for a long time.

22 Next slide, please. Mr. Forrest, I
23 think, will comment on the issue of the Board's
24 concerns that emerged during this time period of the
25 decisions.

1 MR. GERALD FORREST: Thank you, Mr.
2 Osler. During my term as Chair, when we saw the
3 financial wellness of the Corporation or Crown
4 corporations improve, we also saw that the government
5 from time to time made additional demands on the
6 financial resources of those corporations. And,
7 indeed, it was at one (1) of the hearings years ago
8 where Mr. Williams -- Dr. Williams was in attendance
9 where a witness came forward -- forward and talked
10 about moral hazards.

11 And -- and I think it sort of really
12 identify itself at that time when we saw there was a
13 decision made that we would take funds out of another
14 one (1) of the Crowns, the insurance Crown, to pay
15 significant monies to the education facilities in
16 Manitoba. And as you'll recall there was very
17 significant push back on that issue from the public.

18 So I just wanted to highlight that this
19 is an issue, and it will be an issue significantly if
20 the plan that is being put forth, the rate path that
21 Manitoba Hydro has. When you start identifying that
22 you're going to be sitting with billions of dollars in
23 a Crown company that you can expect, especially when
24 the revenue streams of the province are not sufficient
25 in order to generate their own -- start their own

1 responsibilities, that there will be likely a push to
2 acquire more funds from those Crowns.

3 And so when the Board is looking at it,
4 I think you need to identify that is one (1) of the
5 risks going forward. The PUB saw on one (1) hand,
6 too, when the wellness of the Corporation's started to
7 improve, so did their O&M expense improve
8 dramatically. And, indeed, if you even look at
9 Manitoba Hydro today relative to some other Crowns
10 across Canada that the staffing complement is still
11 high, notwithstanding some of the changes that have
12 occurred most recently.

13 The PUB saw and the consistent changes
14 in the chart -- charges -- increase in charges in the
15 mid-80s and in the mid-90s. And in both cases, it was
16 really associated with the wellness of the
17 Corporation. Those charges, as I indicated earlier,
18 were increased on the -- the debt service fee from
19 one-eighth (1/8) of a percent now to 1 percent, and
20 that is a very significant increase.

21 While there was a freeze on the water
22 rental rates in 1980 -- '89, and -- but there was a
23 trade-off in that in -- inasmuch that the ratepayers
24 were then going to be responsible for the cost of
25 mitigation of the facilities and new facilities in the

1 north, and that was significant. So while there was
2 the benefit insofar as their water rentals were frozen
3 at that time, there was still an increased cost
4 associated that flew -- flowed through to the balance
5 sheet.

6 Also in 1994 there was the rescinding
7 of the previous capital tax, which increased
8 dramatically. And, indeed, by fiscal 2014, if you
9 look at it and analyze it, that if every dollar that
10 the ratepayers of Manitoba were paying for Manitoba
11 Hydro rates, seventeen cents (\$0.17) of that is
12 associated with charges that are imposed on the
13 Corporation from the province.

14 MR. CAMERON OSLER: So going to the
15 last line of our presentation, number 17. The
16 relevance of all this to -- for the issues before the
17 Board today. First of all, the earlier -- Mr.
18 Chairman, the earlier PUB rate principles, from our
19 perspective, were retained in this Board's NFAT review
20 and in its recent GRA decisions. The same concepts
21 seem to be on the table and being applied: stable and
22 predictable rates with changes focused on the long-
23 term, and acceptance of the Board's recommendations in
24 the NFAT proceeding for, you know, twenty (20) plus
25 years.

1 Don't -- don't get hung up on twenty
2 (20) years. It takes a few more to regain a 25
3 percent equity ratio. And the government of that day
4 accepted that. The -- the concepts were consistent,
5 in our view, from we saw way back in the period we've
6 been talking about.

7 In summary, Hydro's new financial goal
8 to recover 25 percent ratio in ten (10) years by
9 fiscal 2027 involves the following relative to those
10 goals. A proposal presumes that this Board will
11 deviate from the long-established rate review and
12 approval principles. It asserts a hard date needed
13 within ten (10) years to recover this 25 percent
14 equity ratio and it ignores all the prior history with
15 twenty (20) years plus timing, and -- and no concept
16 of pushing rates up in order to achieve something
17 within a hard date.

18 It inserts a rate path needed at four
19 (4) times the expected inflation for six (6) years,
20 ignoring any discussion, really, of impacts on people,
21 ratepayers, the province's economy, the North, et
22 cetera, let alone stability, let alone the issue of
23 predictability in the future. What's going to happen
24 when we achieve this wonderful thing?

25 Ignores the moral hazards of rate --

1 for ratepayers who are putting up the money for the
2 equity when the 3.5 billion Mr. Bowman described
3 earlier of new equity has been put in the funds. The
4 ratepayers' children and their children's children do
5 not get to earn money on that equity that they put up.
6 In fact, the concept of what will happen to it is very
7 wide-open. But one (1) thing that you can be sure of,
8 aside from what this Board could do to rates, the
9 government has a lot of -- the government of that day
10 has a lot of openings.

11 The proposal asserts, among other
12 things, that what this Board reviewed and gave rulings
13 on or gave advice to the government on in NFAT and the
14 submissions, reviews, and recommended plans since then
15 on GRAs is not relevant. They talk about people who
16 were here before them making not credible risk
17 assessments when they talked about rates and
18 decisions. They ignore the 3.95 percent rate path,
19 its ability to pass the MRET, the minimum retained
20 earnings target, for five (5) or seven (7) year
21 droughts.

22 Mr. Colaiacovo went through this in
23 response to questions from the Board counsel. He went
24 through it very well. And I'm not going to repeat it.
25 We meet that test today, even though we never met it

1 during the time period Mr. Forrest and I were just
2 talking about. And yet it's irrelevant in the
3 considerations of the proposal. It fails to establish
4 any credible new threat to justify such a radical
5 change in the whole approach to rate making in
6 Manitoba.

7 Our recommendations, in summary, to the
8 Board for review of this application. Number 1,
9 retained the Board's long-established rate principles,
10 avoid hard dates to achieve 15 or 25 percent equity
11 ratios. And I would say, from the previous slide,
12 have regular initial re -- you know, reviews and a --
13 and a process of regular change. Let the markets know
14 that you will adjust if you have to, rather than
15 adjust in advance for what might happen.

16 Re-establish -- number 2, consideration
17 of the relevance of the minimum retained earnings
18 target. The fact that we're meeting it doesn't make
19 it irrelevant. It is the key requirement from the
20 point of view of fiscal security for customers. We
21 reviewed it in response to question of the PUB to
22 MIPUG, Number 114 for further details.

23 Third, recommend a ten (10) year
24 deferral of capital tax and debt guarantee fees
25 relating to Bipole III and Keeyask. We reviewed this

1 in response to PUB/MIPUG-16. And based on the answers
2 that have been provided, it looks as though by 2022
3 this would be worth about 10.6 percent on rates.

4 There probably are other things that
5 people could look at to how to deal with these types
6 of situation between the government and the
7 Corporation and the Board, but we focused on this one
8 (1) for now. Thank you. Mr. Bowman will go through
9 another series of thoughts more to do with the shorter
10 term issues since NFAT and the time period he's been
11 discussing this stuff.

12 THE CHAIRPERSON: Yeah, I'm just
13 wondering how long Mr. Bowman's piece will take, if we
14 should be taking a break now or after Mr. Bowman.

15 MR. ANTOINE HACAULT: So by my count
16 on the slides we're somewhat behind where I thought we
17 were going to be. So I leave it up to the Board's
18 discretion as to how it wants to proceed. There are
19 natural breaks in his presentation that he could
20 probably go ten (10) or fifteen (15) minutes and take
21 a break. It's really up to the Board.

22 THE CHAIRPERSON: Okay. Can I ask a
23 question first, though? And I'll -- I'll do this to
24 the panel, but it relates to Mr. Osler's. If we can
25 go back to page 15. You've got here the bullet near

1 the bottom, Mr. Osler:

2 "A message to financial markets and
3 customers of rate stability and
4 sustainable Hydro operations."

5 Earlier, Mr. Colaiacovo -- just hold
6 it. I just want to look at my note. Yeah, raised
7 this issue and we've heard it a number of times. And
8 -- and it's similar to this, We need to send a signal.
9 We're making this -- this a really big -- a really big
10 matter. We need to send a signal. We've heard it by
11 some parties, We need to send a signal to bond rating
12 agencies. We need to send a signal to the capital
13 markets. We need to send a signal to consumers.

14 What I would like to put to you is, you
15 know, some of you may know, I mean, my background is a
16 lawyer. So I go to the legislation. We're looking at
17 a rate application to confirm two (2) interim rates
18 and to grant a rate of 7.9 percent. That's what the
19 application says. We respond to applications.

20 Earlier, to the people in the room, I
21 indicated a concern because we continually were
22 hearing about rate requests of six (6) years of 7.9
23 percent, followed by 4.54 percent. In -- in fact, the
24 media seems to -- to love that. Not love it. The
25 media continues to convey that. That's not the

1 application.

2 So when I hear from certain people, We
3 need to send a signal. Or from you that we have to
4 send a message, explain how that relates to the actual
5 application here. Because I would expect that in the
6 next year or so we're going to have another
7 application.

8 Do we send a signal then, too, and send
9 me -- so, please -- can you -- can you explain how we
10 -- how we're supposed to address suggestions like
11 this?

12 MR. CAMERON OSLER: Mr. Chairman, I'll
13 go first and Mr. Forrest can give you another
14 perspective. We're very conscious of the framework.
15 In fact, I'm going to try to set my comments out and
16 try to make clear what the test year issues are for
17 this Board in your approval versus this rate path.
18 And I appreciate very much the issue you have in front
19 of you legally and everything else is the -- the test
20 years.

21 Back in the '80s, without any inference
22 to what we're talking about today, I would've
23 testified that this Corporation's rate applications
24 should be viewed in a long-term context, even though
25 the decision should always be for the test years that

1 you're dealing with. The Corporation should prepare
2 its thinking that way, and the Board should comment on
3 that thinking so that everybody has as much clarity as
4 possible.

5 In that context it's quite different
6 than some other utilities were the world can change
7 very quickly and you have to respond very much to it.
8 A long-term set of assets with these types of
9 situations merits twenty (20) year forecasts and
10 thinking. But we make decisions based on the test
11 years, always. So the process of trying to think that
12 one (1) through, I think, was there way back and it's
13 there again today. And your decisions are always only
14 for the short-term.

15 But you are being asked in this
16 instance to just -- the only justification you're
17 being given for 7.9 versus the type of number your --
18 your predecessors on this Board heard, the only reason
19 you're being given is because of an asserted target
20 that has been met with a certain time period. Absent
21 that reason, there's no basis for changing the rate
22 framework from what the Board looked at last time it
23 met to review Hydro's material.

24 So the applicant has asked you to de
25 facto consider something beyond the test years to

1 justify what you have -- they're asking you to do in
2 the test years. I -- my suggestion is you probably
3 have to comment on that. You can't avoid it given the
4 nature of the application. Beyond that, I think Mr.
5 Forrest should be the one (1) to comment, because he
6 sat in your shoes. I've only looked at it from the
7 point of view of an Intervenor making comments and --
8 and try to assist people with advice.

9 MR. GERALD FORREST: Mr. Chair, I
10 thought I left no burrs in that seat for you, but I
11 understand I didn't. Yeah, I've given that a fair bit
12 of consideration, the dilemma that you face here.
13 Yes, the -- the application is that you're going to
14 deal with the two (2) interim rate increases and
15 you're going to deal with the rate for next year.

16 But because the -- the application
17 before you has the rate path scenario that you've
18 either got to buy into it or not buy into it, in my
19 opinion. And as pointed out by other witnesses, when
20 I've had a chance to read a bit of the transcript,
21 there's going to be a lot of people out there who are
22 going to read your order in depth. And they will need
23 signals as to which way you are proposing to go.

24 In -- in my view, it is critical for
25 all the audiences to be before the Board to lay out

1 its logic of how they dealt with this application.
2 Whatever your decision, it should be supported by
3 clear and internally consistent forecasts based on
4 proven regulatory principles which the Board sees as
5 reasonable for today and for tomorrow. For example,
6 if you think Hydro should amortize their costs in a
7 certain way, speak to it. Be clear about your
8 messaging.

9 From the public's point of view, and
10 certainly from our client's point of view, this could
11 alter the way they do business in the long-term, this
12 application. So however you deal with it, you need to
13 deal with it with the thought in process. Now, you're
14 -- you're fortunate in compared to where I saw myself
15 years ago, where you have new tools now available to
16 you that are much more advanced than the tools that we
17 had at the Board at that time, relative to your
18 uncertainty analysis. So you can see those tools.
19 You can look at it and put in your various choices and
20 options in those tools to determine where you're
21 going.

22 But as a parent of three (3) kids on
23 financial goals, I'm always stressing for them to have
24 long-term goals. And -- and I don't see this being
25 any different. We need a long-term goal. We haven't

1 had to -- as laid out in '92, '93, and '94, we had
2 goals. The Board looked at those goals. They didn't
3 necessarily sign off and say, This is the goal. But we
4 worked towards those goals in a positive way and not
5 in a negative way. And, indeed, from my particular
6 point of view that's what you're going to need to do.

7 THE CHAIRPERSON: Thank you, Mr.
8 Forrest. You know what? I think we'll take a break
9 now. We'll take fifteen (15) minutes now. Thank you.

10

11 --- Upon recessing at 10:30 a.m.

12 --- Upon resuming at 10:46 a.m.

13

14 THE CHAIRPERSON: Okay, if we could
15 resume. I think we're going to have to pick it up a
16 little bit. But you will get additional time for my
17 very lengthy comment so.

18

19 CONTINUED BY MR. ANTOINE HACAULT:

20 MR. ANTOINE HACAULT: We discussed
21 that during the break and we're going to do our best
22 to do that, Mr. Chairperson.

23 Mr. Bowman...?

24 MR. PATRICK BOWMAN: Yes, we will jump
25 back in at slide 20. Slide 19, for reference, is just

1 an outline of the prefiled testimony.

2 Slide 20 is a summary of
3 recommendations. I don't intend to read. They are in
4 evidence. There are some -- two (2) that have very
5 minor, minor updates reflecting either in one case
6 some updated scenarios that have been filed and I -- I
7 note the 3.57 there that I'll discuss later. And on
8 the which -- is the second bullet.

9 On the third bullet it is -- I -- I
10 clarified some wording in regards to the interest rate
11 issue that I'll also be discussing, so, I think we can
12 keep moving to slide 21, if that is acceptable.

13 Slide 20 is there as a reference if
14 people want to work with it.

15 Slide 21 was not a slide I intended to
16 dwell on. This was simply to help move us along by
17 clarifying that there's a lot of things that were said
18 by Mr. Colaiacovo that are consistent with positions
19 that I've taken and that I believe Mr. Osler's
20 previously taken on behalf of MIPUG that are --
21 they're -- they're consistent and they've been well
22 said by him. So, I don't believe that there's a lot
23 of need to spend time on them, but they go to the
24 nature of equity and reserves for Hydro, what the
25 reserves are appropriate for, what sort of tests one

1 might apply to determine if ratepayers have been
2 underpaying and the conclusion's that they have not,
3 and, of course, the Bipole III account being over and
4 above this amount.

5 Some comments that I think echo what
6 Mr. Forrest said just before the break; that the PUB
7 could help define some more refined ratesetting
8 mechanisms using some of the tools that are now
9 available. But, the proposals aren't developed, and
10 as a result, similar to what Mr. Colaiacovo, we would
11 suggest they -- it's a positive direction, but it
12 needs work and I don't think it's realistic to expect
13 the Board to come out of this hearing with a more
14 refined ratesetting framework in detail.

15 And finally, the concept of self-
16 sufficiency which Hydro's witnesses have previously
17 capital 'H' hypothetical that -- that Hydro would not
18 -- ratepayers would not pay all of the bills of Hydro
19 Mr. Colaiacovo said the same thing, and I would echo
20 that.

21 Keep moving to slide 22. This is a
22 table that was -- the middle two (2) columns were
23 originally produced in Hydro's evidence. The outer
24 two (2) columns were provided in other materials by
25 Hydro. I've just put them all together here. We had

1 originally only reproduced the middle two (2) columns
2 in the prefiled testimony, but they're the, in
3 essence, if I needed to summarize in -- in one (1)
4 slide why we can come to the conclusion that Hydro's
5 situation is not worse today than it was in MH-14, at
6 the last GRA, you'll see a red box around a set of
7 numbers down below which sets out an eleven (11) year
8 projection of Hydro's net income, and that MH-14 had a
9 eleven (11) year net income of negative 791, which is
10 as you'll note from my earlier comments still needed
11 to be adjusted for significant accounting issues that
12 were not -- accounting changes that were not yet
13 reflected in that.

14 And the current one, when you move all
15 the way to the left-hand side is Hydro's MH-16 Update
16 with interim that is now reflecting 208 million net
17 income and, similarly, has some accounting issue that
18 would -- would move that upwards and some
19 conservatives built into the forecast that would move
20 that upwards but, nonetheless, the equity ratios are
21 better off as well, the minimum equity to be achieved
22 from 10 to 12.

23 So at a pure midline best forecast to
24 best forecast basis, comparing this GRA to the last,
25 this was meant to go directly to the point that Mr.

1 Harper also made, that if you do simple comparisons,
2 there's not a lot of reason to be saying that -- that
3 over the next ten (10) years Hydro's -- Hydro's
4 situation has eroded. If anything, if you're really
5 concerned about things like equity ratios, it's better
6 off.

7 I'd also note that this is only the
8 base case as used in the IFF which is lower than a
9 P50. We -- we dealt with that with Daymark's
10 witnesses in the -- on the export price panel, and I'm
11 happy to discuss it, but it -- I'm not sure it's the -
12 - something we need to get into.

13 The next slide 23. This slide actually
14 goes with the subsequent one, 24. And I'll discuss
15 them individually, but I'd also suggest when we're
16 done that, I would look to page 3 of the supporting
17 materials, MIPUG-27. So if the document management
18 had that available at some point, that would be
19 helpful.

20 Along with looking at the baseline
21 forecast for each IFF, it's also important to look at
22 the degree of uncertainty that can occur around the
23 baseline forecast. And this is a place where when we
24 just looked at numbers and there was some improvement
25 in Hydro's forecast. On the base -- on the midline

1 the area of the uncertainty around that number is
2 where we've seen a massive improvement since the last
3 GRA.

4 Now, this is the per -- perspective
5 from this GRA. It's based on MH-16. Not MH-16 with
6 update because it wasn't -- it hadn't been provided.
7 This is a graph from KPMG's material. But what it
8 shows and does take a bit of explanation, is a run of
9 the uncertainty analysis that Hydro does which, if you
10 recall, is where Hydro throws at a model a full
11 forecast of the IFF varying export prices, interest
12 rates and water flows. And it does that run multiple
13 times to generate a probability distribution about how
14 the future would look.

15 This is all of the runs over the period
16 to 2024. It's a total of almost a thousand runs and
17 what it does out of those runs is this graph then
18 picks the minimum equity ratio that arises out of any
19 of those runs. So, it's trying to say, how likely is
20 it that our equity will bottom out at a certain
21 percentage of debt equity. And that percentage is the
22 value shown across the bottom.

23 So if you look for the blue line on
24 this graph, it is telling you that once you deal with
25 all of those overlapping risks and you take the -- the

1 lowest that the equity will get, the question is: How
2 likely is it that we will bottom out at a given
3 number? And as you can see, the best we can expect
4 is to bottom out at 14 percent before things start to
5 pick up. The worst we expect, the P1, is bottoming
6 out somewhere around between 5 and 6 percent equity.
7 You can see the rest of the distribution, the P50,
8 leads you to somewhere around 12 percent equity,
9 which is pretty consistent with what we've just showed
10 from IFF, that you're going to end up with a minimum
11 of 12 at the mid point, at the IFF type scenario.
12 Sorry, at the mean -- the mean of water flows,
13 actually, but at the IFF type scenario.

14 And it shows how likely it is that
15 you'll be lower than that. Also note that as the
16 chairman had talked to Mr. Colaiacovo, this is with no
17 rate response. This is where you say, I'm going to go
18 into a scenario with 3.95 percent. I'm going to
19 stubbornly stick to 3.95 percent even if I'm facing
20 the worst drought we've ever seen.

21 That will drive you to the -- the 6
22 percent equity so slightly below 6, at the worst.

23 If we flip to the next page we see the
24 same graph, unfortunately, on a different axis but the
25 same graph as it existed at MH-14. And I can go

1 through this, but I think at this point if the
2 document control will bring up page 3 of Exhibit
3 MIPUG-27, you'll see us having put these two (2)
4 graphs -- I need to be able to see both of them at the
5 same time -- where we've lined up the axis.

6 So if you compare the upper graph,
7 which we just talked about, you can see the
8 distribution of possible minimum retained earnings --
9 minimum debt equity ratio over that period and
10 compare it to the bottom graph about the possible
11 futures that IFF14 was looking at.

12 We now say that our P1 scenario will
13 lead us to about 5 percent equity, if we stick with
14 the 3.95. If you look down at the IFF14, that was
15 approximately the P30. Thirty percent of the possible
16 futures had debt equities worse than that and many of
17 them drop below zero. Some of them as low as negative
18 6.

19 So what's happened by letting time go
20 on, getting interest rates locked in and with the
21 evolution in things like export markets is we have
22 pulled in this, in a massive way, this bottom end risk
23 that Hydro faced when we sat here at the last -- at
24 the last GRA. And as we continue to lock in debt that
25 will continue to tighten.

1 We've also lost some of the top end.
2 We no longer have scenarios that will lead us to 18
3 percent debt equity at the worst, because we didn't
4 have the stunning export markets and flood conditions,
5 or whatever else would lead to have -- have led to
6 those type of scenarios. But that's the resolution of
7 risk we see as you let the time -- time unfold and you
8 let some of the key variables that are being -- being
9 locked in overtime today get resolved.

10 And it's a complement the other side,
11 if you like, of the conclusion that says IFF16 is
12 materially improved compared to IFF14.

13 Now, if we had to MH-16 Update with
14 interim, I'm sure that upper line would move to the
15 left. It wouldn't to the left to the degree that
16 IFF14 had it moving to the left.

17 If we can move back to the
18 presentation. On the side you'll see that there is
19 just some references to the levels, but I think anyone
20 can take their pen and -- and find the -- the part
21 that interests them so I -- I don't intend to dwell on
22 those.

23 But if you go to slide 25. This is the
24 -- and just for reference, I'm still working through
25 section 3 of the prefiled testimony on the principles.

1 This is emphasizing that that section
2 in the -- in the testimony went through many concepts
3 that have been talked about in the presentation to
4 date, the role of the Crown, the role of customer
5 funded reserves, patient capital, things like that.
6 And we've also heard about the use and useful test.
7 So, I don't intend to spend a lot of time on those
8 points, but there were -- there are two (2) things
9 that have been -- risen in regards to that type of
10 material that I thought merited comment.

11 One is about drought risk. And one (1)
12 of the things that has improved that risk profile we
13 just saw even from IFF14 to 16, but as you look at the
14 numbers here you'll see it's improved in spades since
15 IFF -- the earlier IFFs, like IFF09 and 07, is that
16 natural gas prices are down and export prices have
17 falling. When that happens, your financial results
18 get worse at the mean. Your IFF suffers because
19 you're making less exports at high prices.

20 But, your risk profile narrows because
21 your business plan for Hydro now becomes less based on
22 making high-priced exports, which are at risk of
23 disappearing during a drought. And during that
24 drought when you need to import power, the ability to
25 go to market and buy power is also much cheaper. So

1 your variability drops dramatically. And we can see
2 that when you compare each of the IFFs and note that
3 IFF07 means the IFF from 2007; 09 is from 2009.

4 In each of the IFFs Hydro sets out what
5 a five (5) year drought will cost them and you can see
6 how that has changed over time. We've gone from 2.8
7 billion in IFF07 down to 1.2 billion today. So all
8 the while that we've been absorbing these lower export
9 prices and still keeping our net income up, and that
10 we've been able to build that into rates, one of the
11 things we've done for ourselves is -- is reduce the
12 extent to which we are dependent on the -- the US
13 having high prices. We're actually much less
14 dependent -- or -- and -- on that in -- in the event
15 that we hit the drought now. So that our -- our
16 downside risks are -- are much lower than the -- than
17 they were.

18 We can go to move slide 26. And this
19 addresses a concept, a comment which was in MH-64,
20 which was the initial presentation of Hydro. It's a
21 concept that was built into the application, but we
22 hadn't -- the word "failed" hadn't been -- hadn't
23 shown up until we saw that presentation and the
24 concepts of the old plan had failed.

25 And in the -- in the mix of everything

1 we're talking about with commitment to major capital
2 long-term stability importance of a plan, I wanted to
3 put on this slide which was an image from NFAT, some
4 people may remember it, it was near the end of the
5 hearing, it was MH-192 from NFAT which sets out the
6 decision that the Board made on which path to follow.

7 And in the midst of all of this jumble,
8 what it's effectively telling you is Hydro is
9 advocating the lower half of the page and the Board
10 went with Hydro in terms of the lower half of the
11 page. The upper half of the page means, I don't build
12 a transmission line. I don't build Keeyask or I build
13 Keeyask later when I need it. It's still got options
14 for Keeyask in 2024. It's got an option for Keeyask
15 in 2031, but it was all about not building the
16 transmission line.

17 The lower half the page was about
18 building the transmission line which, in my
19 submission, was the key decision at NFAT. It all
20 hinged on the transmission line. We talk about
21 Keeyask now as being sort of the big numbers that came
22 out of NFAT. It's true, but the -- the integration
23 and I think Mr. Cormie emp -- emphasize that this
24 week. The key asset that changed Hydro's future as a
25 result of NFAT was this 750 megawatt transmission

1 line. And its shown by the bottom half of the page.

2 And I just wanted to emphasize it. If
3 you put your pen on the page, you may be to see where
4 2017 and '18 are in terms of this decision framework
5 and where we headed off. And it is just a few lines
6 off of the very left-hand side of the page. We're at
7 the very baby steps of the plan that has been put out.
8 We've committed to the first bit of decisions.
9 There's many decisions to come; many things to unfold
10 and I think the conclusion that the plan has failed is
11 premature.

12 And having watched Utility issues over
13 a lot of years, I've seen similar hasty conclusions be
14 drawn. I have some references there, which I think
15 also underline the need for caution about deciding
16 when a plan has failed. One of them Mr. Osler went
17 over this morning about Conawapa. Manitoba Hydro
18 planned to build Conawapa and make a thousand
19 megawatts sale to Ontario Hydro. It was approved by
20 this Board -- recommended by this Board in 1990. It
21 wouldn't come on line until 2000. In about 1992,
22 Ontario cancelled the deal because they were in a
23 recession and it didn't think they needed the power.

24 I don't know how many people remember
25 the news from 2000, but in 2000, Ontario's power

1 system was in a mess. The coal plants were running
2 flat out. Toronto had bad air days. There were
3 elections fought over how to -- how to get the power
4 they needed and they would've had a huge power line to
5 Manitoba and a thousand megawatts from Conawapa, which
6 would not have been immaterial part of that -- of that
7 solution had they not made that hasty decision in '92
8 that the plan had failed and changed direction.

9 Similarly, again, I think, echoes the
10 comments from before the break. In 2004, Manitoba
11 Hydro sent out a series of letters to four (4)
12 industrial customers who were thinking about expanding
13 in Manitoba and, basically, told them, we're not
14 hooking up anybody new until we review how we're going
15 to get more revenue out of you because our export
16 prices are worth so much we really want to be able to
17 capture the export markets.

18 That led to a hearing for this Board in
19 2008, on a proposal called the EIR which was still
20 about how industrial loads were undermining Hydro's
21 ability to chase big export prices. And thankfully,
22 the proposal was rejected by this Board. I think if
23 we now look at the history of export prices, the last
24 thing we wanted to do would've been to chase away load
25 in that era because we were focusing on some export

1 price and throw away the regulatory principles which
2 underline a consistent cost of service based pricing.

3 And I only emphasize that because I'll
4 tell you, to this day, there is one (1) of the members
5 of MIPUG who -- the first comment they make in every
6 meeting we have is, is Hydro's still going to do that
7 thing that they mailed us a letter about in 2004,
8 because that stopped our expansion. We've never done
9 it.

10 So in terms of the signalling, it --
11 just to emphasize with a practical example, up know,
12 pre -- prelim -- or hasty conclusions based on a set
13 of facts, I don't think -- I don't think lead to a --
14 good conclusions and I encourage the Board not to try
15 to put a moniker like failed on a plan.

16 Moving to 27. We've now moved into
17 section 4 of the prefiled testimony. Section 4 of the
18 refiled testimony deals with effectively Hydro's rate
19 plan to double the previous plan, focus on plan not
20 request -- not requested approval. Most of this was
21 dealt with by Mr. Osler and Forrest this morning.

22 I only add two (2) additional comments
23 here, one of which is on this slide that when you have
24 \$14 billion of capital coming online, and you decide
25 that you need to fund 25 percent of it through

1 reserves, meaning charging rates that are higher than
2 cost by -- to build those reserves, the number you
3 derive is you need 3 1/2 billion dollars of extra
4 funding in Hydro, extra rates being charged to people
5 over a decade to build up that 25 percent, over and
6 above the cost of those assets. We're not talking
7 about O&M, that will be in rates. We're not talking
8 about the depreciation for the asset being used by
9 today's ratepayers, that will be in rates.

10 This is another 3 1/2 billion on top of
11 that to pay for the 25 percent equity associated with
12 -- within ten (10) years. And when I say ten (10)
13 years, remember, that's only four (4) or five (5)
14 years after Keeyask comes on service. It's not ten
15 (10) from the date they come in to service.

16 Once you put that 3 1/2 billion in,
17 you -- you change things dramatically. So that
18 comment is set out in the middle of this page. And at
19 the bottom key is it's -- we did a comparison about
20 definitions of self-supporting, KPMG's definition,
21 which I think is very sensible. It's set out there
22 that in their mind Hydro's would be deemed to no
23 longer be self-supporting once it reaches a position
24 of zero retained earnings, and rates have increased in
25 real terms such that Manitoba can no longer be

1 considered a cost competitive jurisdiction with
2 respect to electricity rates.

3 And note that KPMG emphasized the
4 'and'. And I would suggest that there is no prospect
5 of either of these occurring and so in the type of
6 self-supporting definition KPMG was using, I don't see
7 that this leads to the -- the reactions that Hydro has
8 -- has brought forward.

9 Hydro also provided a definition in
10 response to an -- an interrogatory. We asked -- where
11 we said, do you agree with S&P's conclusion that Hydro
12 is not self-supporting? And they provided that their
13 version that the near-term objective is to meet all of
14 the financial obligations, including debt service and
15 capital investment out of the revenues of the
16 Corporation and they went on to say, This is the
17 definition of self-supporting the Corporation
18 endorses.

19 We can get into the questions of how
20 these things are measured but I think that's also a --
21 a reasonable perspective to put into -- into the
22 discussion and I will note that the traditional test
23 for this type of definition is something called the
24 capital coverage target is put in place in the era
25 that Mr. Osler's speaking of. It's been in place ever

1 since, although it was raised. It used to be a 1.0.
2 It got raised to be a 1.2, and it's been in place ever
3 since. And that has met ineffectively almost all
4 years of -- effectively every scenario we're talking
5 about.

6 The next slide 28. I only put this
7 one in because in the evidence we do a review of the
8 need to move to a 7.9 percent rate increase scenario
9 from three (3) perspectives. One is from the self-
10 supporting perspective. One is from the government
11 perspective; and one is from the customer interest
12 perspective. And on the customer interest Hydro
13 focused on during a calculation of present value of --
14 of -- of bills to ratepayers and they relied on this
15 slide, which was in their opening presentation.

16 And you'll note that this emphasizes
17 the issue Mr. Osler speaking of; that when Hydro's
18 asked to run scenarios that go to year 11, pretty
19 dramatic options need to be dealt with to prevent
20 their scenario, their baseline, from spinning out of
21 control, meaning either, you know, dramatically
22 reducing Hydro's debt starting year -- after year 11,
23 or needing to throw in massive rate increases and this
24 is the slide that has the 25 percent rate increase.
25 You'll note this was -- this is one (1) of the slides

1 that Hydro put a 23 -- sorry, decrease. Sorry, did I
2 say increase. A 23 percent rate decrease in 20 --
3 year 11 in 2027, if you like.

4 And I only note this in regards to the
5 question of whether that is, in fact, in the customer
6 interest how much the plan with the 7.9 leads you to
7 these very odd outcomes such as Mr. Colaiacovo covered
8 on terms of reserve usage and -- and such as this,
9 rate adjustment needed to prevent -- prevent Hydro's
10 finances from -- from spiraling very, very high.

11 And also to note that from a ratepayer
12 perspective, the type of analysis Hydro provided in
13 the rebuttal where it does a discount on this, as if
14 the ratepayers were making an investment in Hydro
15 through these early years in order to receive the
16 return that arises with the 23 percent rate decrease.
17 I think it's -- it's questionable of -- as a framework
18 for -- for justifying the 7.9.

19 I think if you were to use it for a
20 framework for justifying 7.9, I wouldn't call that a
21 low risk scenario for a customer, I'd call that a high
22 risks scenario for a customer because the rate --
23 return years after the investment years rely on the 23
24 percent rate decrease that we've, effectively, already
25 heard wouldn't be part of Hydro's plans. And -- and

1 further, I think it raises some of the issues Mr. --
2 Mr. Forrest talked about in terms of moral hazards and
3 the like.

4 Moving to slide 29. So at this point
5 in the prefiled testimony section 5, moving to section
6 5. Section 5 is where we've move beyond the
7 consideration of new plans and new ten (10) year
8 targets, and we've moved into consideration of
9 different IFF forecasts that arise using the old type
10 of plans, the old type of Horizons. The same -- the
11 consistent principles.

12 That time, we used the PUB/MH-134,
13 attachment 1 scenario, which had 3.95 percent rate
14 increases fixed, and considered whether it was showing
15 a -- a financial performance that should be considered
16 acceptable. And I will say at the end of the day,
17 you'll find it leads to a financial performance that I
18 conclude should be considered acceptable.

19 I do note these are still plans based
20 on Hydro's baseline IFF. They haven't been adjusted
21 for a number of things that are important, have been
22 discussed in this hearing. I'd note O&M there. I
23 don't propose an adjustment to O&M, but I do note that
24 they have Hydro's forecast for O&M that were difficult
25 to confirm, because they're in such flux.

1 I don't fault Hydro for that. I've
2 been on the utility side, where you come to a hearing
3 the middle of restructuring, and people want all the
4 detailed data on O&M, and you can't provide it,
5 because you don't know quite how things are going to
6 look when you come out the other side, but I do think
7 that it is that something that will need more
8 attention. But I wanted to note that it's -- the O&M
9 will need further consideration.

10 It also has DSM activities that I
11 suggest are benchmarked too high, given the facts
12 facing us, including -- at that time, I didn't have
13 the update to marginal costs, that it cut marginal
14 cost by a dramatic amount, and that affects both your
15 costs and your loads, meaning your revenues, and it
16 also doesn't have the appropriate accounting policies
17 and regulatory policies that I'm going to speak to as
18 we move forward.

19 With these considerations, the -- the
20 scenario that is shown as MH-16 update with interim in
21 the future slides, which is -- the -- the slides to
22 come, which is the orange line, if you see colours the
23 way I do. Some people call it the red line. The
24 orange line would be improved compared to what is
25 shown there.

1 So now moving to those slides. The
2 first slide we go to is slide 30. This is a slide
3 that's reproduced in the background paper B6, page B6.
4 And what we went to look at is how do the costs, the
5 total costs of Hydro's system that aren't paid by
6 exports compare today to what we considered in a range
7 of outcomes at NFAT?

8 And we did that for a very specific
9 reason, because I was very concerned that the -- the
10 common sense and the elegance of what was done at NFAT
11 in terms of risk modelling was being lost, and the
12 whole idea that NFAT didn't consider one (1) scenario,
13 it considered multiple -- I think we called them the
14 twenty-seven (27) scenarios at the time -- and it
15 showed a possible future paths, and it considered that
16 things could go adverse on you, considered that all
17 three (3) things, export prices, and interest rates,
18 and capital costs could go adverse on you.

19 Not all of them considered them going
20 as far to the bad or to the good as they have, but
21 they've gone in offsetting ways. So my basic question
22 is: Are we in the cone, or outside of the cone? Have
23 we really blown through the type of risk scenarios
24 that people considered at the NFAT? And so we wanted
25 to consider that a number of different ways.

1 And the first slide we looked at was
2 what is the net cost to Hydro's system? How many --
3 how many millions of dollars will be recorded on their
4 -- on their income statement each year to fund the
5 system that is not paid for by exports? And we -- and
6 this is the graph that arose. You'll see NFAT
7 scenarios are in there with a blue line, and the NFAT
8 risk scenarios are in there with the shading, blue or
9 grey, depending on your eyes.

10 MH-14's around there in green. MH-15's
11 around there in light blue, and MH-16 update with 3.95
12 percent rate increases are in there in orange. I'll
13 note this isn't rates, so the only thing that rate
14 increases need apply to the extent to which you carry
15 or pay down debt.

16 And our basic conclusion was delays and
17 Keeyask, and high water, and lower interest rates have
18 led to improvement in certain years, but the years
19 where -- that matter as you get into Keeyask being
20 online, costs are basically in line with where the
21 NFAT baseline scenarios were, maybe a little higher.
22 Of course, remember, these don't have the accounting
23 changes and the other things we just talked about, or
24 the conservatism built into -- that -- a conservative
25 adjustments that I'll -- I'll discuss as we move on.

1 These are without contributions to
2 reserves, so there's no -- no debates built into here
3 about what year you're targeting what percentage.
4 This is just the cost that ratepayers need to cover,
5 and it also helps emphasize why ratepayers must first
6 absorb the project costs before your load on extra
7 equity contributions. And I -- I say that by way of
8 the jump you see between about 2021 and 2023/'24,
9 there, as Keeyask comes online. The costs of the
10 system are already going up significantly, and that's
11 going to hit ratepayers through the -- the basic cost
12 structure in the IFF before we start talking about
13 adding reserves.

14 So during those years saying, I also
15 need rate increases to get the reserves up is like a -
16 - a triple whammy, if you like. You've got Bipole
17 coming online. You have Keeyask coming online. And
18 now you're saying, Along with those cost hits on the
19 depreciation and interest side, I also want to build
20 reserves.

21 I will say we produced a version of
22 this graph that brought this out to a unitized basis,
23 so it divided it by a load. We use the load, as I
24 corrected this morning, at the generator terminals,
25 and as a result of load decreases, since -- in the --

1 in the load forecast, you'll see the orange or red
2 line is -- is somewhat higher, but it's still within
3 the range. And I'll -- I'll leave it at that. That
4 is in -- that is also in the prefiled testimony in the
5 background papers.

6 Moving to slide 31, you'll see the same
7 structure of graph. Again, the blue line is NFAT.
8 The shading is the cone. This time, we're measuring
9 the retained earnings in dollars. And what you'll see
10 is that huge benefit we've had in the orange line,
11 being MH-16 with interim, the huge benefit we've had
12 of the delays and Keeyask and the high water in terms
13 of the ability to build a much stronger balance sheet
14 before the project comes online.

15 It seems odd it's not advantageous to a
16 capital project to come in late. Keeyask coming in
17 late hurts in terms of how soon you can start to
18 collect some export revenues, and it hurts in terms of
19 the interest costs you have to carry while it's in
20 service, but all the time that it's under
21 construction, you get the opportunity to build your
22 balance sheet to a stronger level before it hits.

23 We also benefit from the high water
24 during this period, but that is the -- that is in the
25 bank. It's not in the forecast. The forecast is

1 based on mean water. The -- the -- in -- the parts --
2 it's in the bank from the past. High water is built
3 into here, and as a result, you see that the orange
4 line no longer bottoms out anywhere near as low as we
5 thought it was when we sat here at NFAT. It also
6 bottoms out later because Keeyask comes online later,
7 and its pattern of recovery is somewhat later. It's
8 delayed by three (3) or four (4) years, but it's the
9 exact same pattern at a better level. The other line
10 that's put on here is the -- the red dots, which is
11 effectively Hydro's 7.9 percent plan to emphasize the
12 difference in -- in perspective.

13 Now, continuing with the same structure
14 of -- of graph, we move to page 32 of the
15 presentation. And this one's the same structure, but
16 a much longer horizon. Mr. Osler already had this
17 graph in his presentation, so I don't intend to dwell
18 on it, but it emphasizes the NFAT again in blue, the
19 shading on NFAT, the red of Hydro's 7.9 percent plan,
20 the orange of the same with the 3.95 percent scenario,
21 again without the benefit of the other changes we're
22 talking about, and purple for those who will recall
23 Hydro's original NFAT scenario. That is the plan with
24 the Conawapa that Hydro had planned. So in terms of
25 absolute levels of debt, we're -- we're not talking

1 the same league as once you put a Conawapa onto it.

2 This graph, if -- if anybody wanted to
3 argue about erosion, this would be the graph where
4 someone goes to say, You can see where the erosion is.
5 We're going to have a -- a debt that peaks higher than
6 we ever expected it, and that is true because of the
7 capital cost. But as you see from the earlier slides,
8 despite that -- that peaking higher, it has the
9 benefit of offsetting interest costs being lower, and
10 as a result, the cost of the plan ends up almost
11 exactly mid -- straight down the fairway for where we
12 expected the in plan -- plan costs to be.

13

14 (BRIEF PAUSE)

15

16 MR. PATRICK BOWMAN: Moving to slide
17 33, we get into the issue of what about WATM, this
18 issue that's been raised about the weighted average
19 term to maturity? And to remind people, this is a
20 question that revolves around Hydro's treasury
21 assumptions in the IFF, and whether by taking on a 7.9
22 percent rate plan, not only does Hydro pay down some
23 debt faster, but Hydro will structure its debt
24 differently, so as to capture this margin, this small
25 gap between interest rates in terms of its short-term

1 versus long-term rate.

2 And I wanted to emphasize a couple of
3 things on this. I hope not to dwell on it, although
4 there is about five (5) slides here, but if we're --
5 as -- as Ms. Steinfeld pointed out to me.

6 To boil it down to two (2) bullets, the
7 first one (1) there emphasizes this issue has been
8 hugely overstated in terms of the extent to which it's
9 being used to -- to skewer, if I can use that word,
10 certain scenarios. We have Hydro's response to MH-93,
11 which sets it out in clear terms that if you're
12 looking at the twenty (20) year type horizon, the
13 entire issue of the twenty (20) year versus twelve
14 (12) year WATM can be summarized as being .15 percent
15 per year in terms of the rate path you choose.

16 So instead of three point six (3.6),
17 it'd be three point seven-five (3.75). That's the
18 entire extent of gap we're -- we're debating about,
19 and that is based on the original MH-16 update with
20 interim forecast. Hydro's rebuttal emphasizes that
21 half of that gap has collapsed since then due to the
22 flattening of the yellow curve. So we're not even
23 talking .15 percent on the scenarios anymore. We're
24 talking half of that difference.

25 So I want that to be sort of clarified

1 that the -- it's -- it's overstated for any -- any
2 scenarios where you're looking at working from the
3 sort of traditional frameworks. It's definitely not a
4 reason to distinguish between a 7.9 and a 3.95 percent
5 rate path, and I go on to explain the second key
6 bullet I want to emphasize is anything that I put in
7 the evidence, or that I discussed here, is not to
8 suggest that these are treasury recommendations to
9 Hydro.

10 Hydro has a very competent treasury
11 department. Hydro's treasury department has put out
12 an elegant plan. Mr. Schulz put in place a -- a very
13 smart set of decisions about how to structure debt in
14 the years leading up to Keeyask, and through Keeyask,
15 out of the back end of Keeyask. It -- it has -- it's
16 been executed well, and it's going to require day-to-
17 day attention to make the best decisions of -- of
18 rates on -- on the ground, if you like. I'm
19 summarizing slides ahead so that I can keep moving.

20 But the question as -- as the Utility
21 moves into a stronger cash position, it's going to
22 have to actively plan how to manage its debt
23 portfolio. Once we move out of the camp and
24 rebuilding phase, Hydro is going to be in a position
25 where it -- it would be expected to be in a position

1 where cash generation under normal water is -- is big
2 enough that it has to have debt -- a debt portfolio
3 that it can manage that cash. In other words, it has
4 to have debt coming due to effectively repay.
5 Otherwise, there's -- to be cheeky, there's nowhere to
6 put the cash. That's what happens when you're done a
7 building scenario.

8 And so that's what I -- Hydro is
9 managing towards, and -- and I think they've done it
10 quite well. The question is whether for an IFF
11 planning scenario, you should be putting in place an
12 assumption of this ability to capture this -- this
13 spread, because your interest rates are higher, this
14 spread that half of it disappeared on us in a couple
15 of months while the interest rate curves moved around,
16 and in -- in practical terms, is about a quarter (1/4)
17 of a percentage point at the best, about half that
18 since it's collapsed, on -- on an overall interest
19 rate forecast, that is, you'll see move -- has moved
20 by about a half (1/2) a percentage point overall
21 between -- between the scenarios. So it's -- it's
22 well within the range of -- of variability that one
23 would -- would call sort of noise, and getting too
24 clever, I think is -- is -- would not be recommended
25 in an overall rate -- rate plan or IFF.

1 MR. ANTOINE HACAULT: Unless the Board
2 has questions on this issue, we'll move to slide 38.

3 THE VICE-CHAIRPERSON: I'm not looking
4 at Ms. Steinfeld when I ask this question, but can we
5 go back to slide 32, Mr. Bowman? I think that's the
6 one where you said if we want to talk about any slide
7 in terms of erosion, this would be the one we should
8 look at?

9 MR. PATRICK BOWMAN: Yes, I'm there.

10 THE VICE-CHAIRPERSON: Okay. So you
11 lost me in your argument, there.

12 MR. PATRICK BOWMAN: What I'm saying
13 is, and I believe this is similar to Mr. Harper, if
14 you want to look at Hydro's forecasts from one (1)
15 forecast to the next, there are two (2) things you
16 need to consider in terms of assessing whether
17 something is better or worse, because better or worse
18 is just a little too simplified. One (1) is, you need
19 to make sure you're looking at an appropriately
20 updated set of assumptions, and the second is you need
21 to clear about what test you're going to apply to
22 determine if something is better or worse.

23 And I'm suggesting that when you
24 compare the previous GRA to this GRA, on a net income
25 basis, we're better. On a risk basis, we are much

1 better. On a total costs over time, we are
2 approximately equal. On a maximum debt lev -- basis,
3 this is the slide that emphasizes we're a bit worse.
4 So you're going to find this mix of ups and downs, and
5 I -- I think he may have used the term -- Mr. Harper
6 may have used the term, 'it's a wash'. Once you set
7 out your tests and you consider these things, you
8 wouldn't necessarily call this an erosion overall.

9 If your only concern is max debt, then
10 you might say, Yeah, I'm -- I'm behind, whereas if
11 your only concern is downside risk, you might say
12 you're ahead. But on balance, we consider them, this
13 is one that's on -- on -- in that column, if you like.

14 THE VICE-CHAIRPERSON: Thank you.

15 MR. PATRICK BOWMAN: Now, we're headed
16 to slide 37, I believe, which was just that point that
17 I think may have been a bit cryptic without the image.
18 The -- this is the interest rate forecasts that Hydro
19 has for its -- its IFFs, and the orange -- and you can
20 see the interest rates down the vertical axis, and --
21 and across the bottom. This goes from 2006 to 2034.
22 The orange was the forecast from IFF14. The green is
23 the forecast from IFF15. The jumble of lines below
24 that are all the various forecasts from IFF16. And
25 some of those have twenties (20s), and some of those

1 have -- have twelve (12) year WATMs, and half of the
2 difference between them has collapsed.

3 That's the base of my point, that in
4 practical terms, this issue is about the average
5 interest rate you can achieve. It's about whether you
6 can be -- if I can use the word sort of clever enough
7 to figure that you've somehow found this -- this gap
8 between the lines. And I'm going to suggest for a
9 long-term forecasting basis, it's a -- it -- it
10 wouldn't be appropriate to build in differing
11 assumptions on that, depending on the rate path.

12 Slide 38. Now, having discussed all
13 that, we're moving to section 6 in the prefiled
14 testimony. Having discussed all of those
15 considerations about how does -- how does the world
16 look when you're taking Hydro's models of the, I'll
17 call, twenty (20) year perspective? That's section 5.
18 This is now saying, But now let's pierce into Hydro's
19 models and see whether there are some things that --
20 that also require comment, or attention, or will seek
21 -- be -- be reasons why those lines aren't necessarily
22 the only thing we want to rely on.

23 This slide is about the issue of
24 capitalization of overheads. As far as I understand
25 it, this issue is largely resolved. Hydro moved large

1 amounts, \$120 million worth of things it used to
2 capitalize into wanting to expense, which put a huge
3 burden on rates as that was done. The Board said no
4 to the last 20 million, and said, I want it
5 capitalized again. These are, in my submission,
6 validly capital costs. They should be treated like
7 capital costs. They should be thought of as capital
8 costs. They're not pushing liabilities off to future
9 ratepayers. They're not ignoring our grandchildren.
10 They are costs that are a true and proper part of
11 Keeyask or Bipole, just as any wire, or turbine, or
12 anything of the sort is, and they ought to be con --
13 thought about the same way.

14 In doing that, they should be
15 amortized, much like assets are amortized, because
16 they relate to a pool of assets. If Hydro does not
17 want to track them by asset, it can track it as a pool
18 and amortize it, and the suggestion is it should do
19 something like a thirty (30) year horizon, which is
20 the average for all of its assets. It's actually a
21 little higher. And it should to continue to do that
22 in perpetuity. There's no reason not to. It's part
23 of a regulatory standard, and the normal way that a --
24 any number of these utilities would talk about a
25 regulated is by a set of regulatory accounts and

1 standards that do not always mimic the same as their -
2 - their IFRS accounts and standards. And I think this
3 is a -- a good example.

4 IFF16 -- MH-16 -- MH-16 update with
5 interim include this deferral and amortization, but
6 only for a limited period. So all of the back end of
7 -- of MH-16 has the extra \$20 million in -- in costs
8 rather than being deferred and amortized. That's the
9 sum of that slide.

10 Slide 39. We have a similar issue with
11 depreciation, which was the WATM of past hearings, if
12 I may say so. And so I'm sure everyone loves to spend
13 time on this, but the Board has made its conclusions
14 that Hydro is to use the average service life
15 procedure until such time as it comes back and
16 convinces the Board to do otherwise, and the Board set
17 out clearly what type of studies it would be looking
18 for to do that. I suggest that the Board continue
19 with the average service life, and that it not make an
20 assumption that by default there will be a change to
21 the equal life group procedure.

22 In the meantime, the thing -- the very
23 simple point that the Board needs to understand is
24 that both methods of depreciation will amortize your
25 assets by the -- over the life of the asset. You will

1 always recover all of your costs. There's a
2 difference in the timing.

3 And in simple terms the equal life
4 group method puts more of your depreciation costs in
5 the early years of the asset, which is not only
6 problematic from a regulatory perspective; part of the
7 reason it's not approved in -- in a lot of places, but
8 it's especially problematic when you're bringing on
9 huge projects like Bipole and Keeyask.

10 Moving to the next slide. Actually, I
11 take it back. Can we go back to slide 39? The
12 principle -- this is -- I'm at the last major bullet.
13 The principle that we're trying to achieve is that the
14 outcome to rates should be the same as an ASL profile.
15 If Hydro wants to do something else, or it elects with
16 its auditors or with its internal accounts to do
17 something else in its own books, it simply needs to
18 provide a true up to be able -- to this Board to be
19 able to implement the decision this Board made, which
20 is to use the average service life procedure. It's
21 not uncommon.

22 Anything else that's recorded in
23 Hydro's books becomes a difference. And on their
24 books they may have a difference, the -- the part that
25 we've depreciated that we haven't yet recovered from

1 ratepayers. But this Board, by endorsing to this
2 point the ASL procedure, has said, You will recover it
3 from ratepayers appropriately with an ASL
4 methodologies, meaning as time goes on when this ELG
5 approach should get cheaper for any given asset.

6 And that's the cost profile that we
7 should assume we're trying to achieve. In other
8 words, as long as this stuff is tracked by a vintage,
9 by an asset class, it should be naturally amortizing.
10 In the early years it will build up a balance. In the
11 later years it will pay it down. And I provide an --
12 an IR response where it shows in Hydro's materials
13 that that is exactly what should happen.

14 Hydro suggested it will be ever-
15 growing, and I think that only arises if someone puts
16 it is a one (1) line item, and bundles this stuff
17 together. It is only ever-growing the same way as
18 your capital plant in service is ever-growing. Any
19 given capital asset is being amortized down, but
20 you're always adding new stuff, so it's ever-growing.
21 But that's not a reason to reject the approach.

22 Moving to slide 40. The issue for this
23 hearing is that Hydro's IFF in the first ten (10)
24 years, much less the next twenty (20), includes way
25 too much depreciation cost to meet the Board standard.

1 They have implemented an approach that actually
2 achieves the Board's outcome for the first number of
3 years. And as you'll see there, it gets an ASL
4 outcome.

5 And this -- this is table, I'm happy to
6 go through if it fits within our time. But it shows a
7 -- the regulatory deferral account. It shows the net
8 movement. It shows the deprec -- at line 6 it shows
9 the depreciation expense that Hydro built into its
10 books. And at line 7, it shows the depreciation
11 expense that will effectively be assumed in the IFF by
12 year. So line 7 is what's in the IFF.

13 Line 8 is what should be the IFF, if
14 you were sticking with an ASL procedure. And what
15 you'll see is for the first five (5) years of this
16 table, including '15 -- starting in 2015, Hydro
17 achieves an ASL type outcome. Starting in 2020, Hydro
18 proposes to start amortizing this balance, even though
19 the principal is it would be naturally advertising on
20 its own, as Mr. Kennedy was so emphatic about. Hydro
21 actually starts amortizing it. So we end up with a
22 somewhat higher depreciation expense.

23 But what really happens is after 2024,
24 where Hydro then reverts to the ELG procedure,
25 assuming that it's going to get that approval, and is

1 also amortizing the remaining balance. And so we end
2 up with rates that are actually higher than the ELG
3 approach would even use. It's like an ELG by
4 attrition. And the total difference over ten (10)
5 years is 352 million. And by the end of it its 80
6 million a year difference and that will carry into the
7 second decade, 80 million a year difference.

8 And this is why -- one (1) of the
9 examples of why I'm saying when you look at those red
10 lines, you look at MH-16, any of them. Almost none
11 have been adjusted for this. The only one (1) that
12 has the -- the undertaking exhibit that we put in our
13 book of documents, MH-93.

14

15 (BRIEF PAUSE)

16

17 MR. PATRICK BOWMAN: The last point
18 about revisions is on slide 41. And this is about the
19 DSM spending. And as I note, DSM spending in MH-16 is
20 still at levels effectively unchanged from MH-15. I
21 put in some slides from Boston Consulting Group
22 emphasizing how big a difference different DSM
23 assumptions can make. Their slides go to 2030, which
24 is not as far as we're talking about.

25

 But the left-hand side shows the

1 difference in equity ratio by only varying the amount
2 of DSM you do. And a huge part of that is what you do
3 to your loads in your revenues. It also shows the
4 interest coverage ratio and -- and Boston had Hydro
5 run four (4) scenarios, one (1) they called balanced,
6 one (1) they called significant ramp down, one (1)
7 they called government 1.5, and one (1) that was a
8 base.

9 And I will note that in terms of all of
10 Hydro's forecasts of DSM the -- all the ones we're
11 looking at were prepared with marginal values that
12 were at the -- the start of the hearing, not the
13 levels that have been provided since we're been in the
14 hearing, which dropped by about a third for the
15 generation component. With lower marginal values much
16 less DSM would be cost-effective.

17 Switching to slide 42. This just is a
18 -- a -- from a PUB MFR. PUB asked Hydro to run
19 different assumptions on -- on DSM and they -- I'm --
20 I'm sure they are -- were run in a relatively
21 simplified manner. But they emphasize -- the first
22 column is MH -- is the MH-16 scenario of how much
23 retained earnings Hydro will have by year. And the
24 next three (3) columns run different scenario
25 assumptions about DSM, and how much better retained

1 earnings will be if Hydro takes different assumed
2 levels of DSM.

3 And the one (1) that's really
4 interesting to me is the middle one (1), MFR-77-II,
5 which is the third column in the table. And this is
6 effectively, what if we spend the entire DSM budget,
7 but we fail to achieve the savings? And the answer is
8 we end up with a lot higher retained earnings, meaning
9 a lot lower ability -- ability to charge a lot lower
10 rates.

11 So this isn't a question of spending.
12 This is -- that -- that's the emphasis about how much
13 the lost revenue from your -- your domestic loads is -
14 - is a big feature. And it goes to what Dr. Yatchew
15 was talking about, is building load in order to help
16 pay for the new assets is -- should be a critical
17 assumption. And -- and I -- I believe he called this
18 an inefficient use of a -- an inefficient assumption,
19 I believe. Definitely unfortunate.

20 And I would say DSM plans that don't
21 change with changes in assumption in their marginal
22 value, and don't change with changes assumptions about
23 when your next plant is needed are not driven by an
24 integrated resource planning framework, which is what
25 this Board recommended. Sticking to 1 1/2 percent is

1 -- is not a responsive approach to reflect what --
2 what would what would be arising from a resource
3 planning framework.

4 And -- and I have some further comments
5 about that in the -- in the evidence that I think,
6 notwithstanding that the -- that there is a piece of
7 legislation saying Hyd -- the new agency will target
8 1.5 percent unless the Lieutenant Governor and Council
9 or this Board recommend or -- this Board recommends
10 the Lieutenant Governor and Council concludes
11 otherwise.

12 I think at this point in time, Hydro's
13 plan doesn't get to 1.5 percent. So I'm -- I'm taking
14 it that they've reached the conclusion they shouldn't
15 assume 1.5 percent, and I think that's a reasonable
16 assumption. I think in light of the facts that are
17 there, pending this Board having the chance to have
18 its first major review of Efficiency Manitoba's plans,
19 I don't see the -- the basis to assume that -- that
20 the -- the largest plans that -- that may have been
21 assumed to be efficient at the time of NFAT should
22 still be assumed to be the type of plan that's
23 appropriate today when we're hearing about the
24 financial issues, and we're hearing about the
25 reductions in export markets.

1 That is the end of the slides dealing
2 with revenue requirement. I have a few brief comments
3 on cost of service and rate design. Slide 43 -- or
4 slide 44, I apologize, on cost of service. Reviewing
5 the filing, my conclusion was of the cost of service
6 study as filed largely follows Order 164/'16. It's
7 refreshing to have a cost of service study that aligns
8 with and an order and that needs at most some -- some
9 small outstanding directives dealt with. We've been --
10 -- it's been a while in Manitoba since we've had that --
11 -- that scenario.

12 The only issue I comment on is customer
13 service C10, and you will have heard some of these
14 issues be canvassed already in this hearing. The sum
15 total of the issue is, in -- in my submission, about
16 \$2.6 million being allocated to the three (3) general
17 service large classes.

18 That is not supported. It's either
19 functions that are not driven by the bulk power
20 systems. They are driven by the distribution system.
21 Or it's functions in which they are already paying for
22 through another route. Or it's functions that don't
23 relate to the type of services that -- that they
24 receive, at least in the vast majority of services are
25 not provided to them. And it's -- it's material in a

1 sense as it's about 1 percent of the GSL cost. It's
2 not earth shattering, but it's -- it's big enough that
3 I think it merits adjustment in the cost of service
4 study.

5 The other comm -- thing we comment on
6 is the revenue to cost ratios and it -- I'm not sure
7 about the debate over the measure of revenue cost
8 coverages. I just know if I deal with a group of
9 customers who are paying 180 million, and who have
10 costs measured at 160 million, and the gap is 20
11 million, they would call that greater than 10 percent.
12 20 million out of 180 million of what they're paying
13 is a greater than 10 percent gap.

14 Now, Hydro may do some other math to
15 tell them it's eight (8). I would suggest that we do
16 it by the -- the measures that would be relevant to
17 customers, which is 20 million out of 180, and that's
18 the -- the essence of my submission on that point.

19 Slide 45. I suggested in designing
20 rates attention should be paid to the cost of service.
21 I don't think it's an overriding consideration. I do
22 work in jurisdictions where cost of service is an
23 overriding factor, and it's far and away the biggest
24 item cons -- considered is making sure that a cost of
25 service ratio is at one hundred point zero zero

1 (100.00) in each and every GRA. I don't think that's
2 the way Manitoba should set rates, just like I don't
3 think it's the way Manitoba should set a revenue
4 requirement without looking at the long-term.

5 I have a quote there, which is often
6 frequently cited. It goes back to a -- it's quoted in
7 Goodman, which is the -- the lawyer's version of
8 Bonbright, if I can put it that way, on utility rate-
9 making from a case from the 1930s, but which
10 emphasizes that the burden -- the burden should be on
11 the party who is trying to argue that rates shouldn't
12 be based on costs.

13 I think the zone of reasonableness of
14 95:105 is appropriate for a large utility with a
15 sophisticated cost of service study. I think examples
16 of small utilities I've worked with, 90:110 or
17 utilities whose cost of service studies have high
18 degrees of -- of uncertainty, or they don't have a
19 very sophisticated approach, I don't -- we're not --
20 we're not that type of utility.

21 I think Bipole III will likely have the
22 type of effect people are showing. In other words, if
23 you -- it will have a tendency to put a larger cost in
24 percentage terms on people who make more use of the
25 bulk power system. I think that's a given, the way

1 it's classified. So in cents per kilowatt hour basis,
2 it'll cost a little more for residential than
3 industrials. But overall, people will tend to pay the
4 same cents per kilowatt hour for Bipole. And as a
5 result, the RCC ratios will pull in somewhat, but I
6 don't -- it won't address the greater than 10 percent
7 that we're facing.

8 And so I think it's appropriate if
9 you're going to have a cost of service study, to use
10 it to make some adjustments. I also want to note that
11 a zone of reasonableness is not a zone of -- of excuse
12 or a zone of negligence to say you're one at one-o-
13 four-point-nine (104.9). You can stay there for
14 twenty (20) years. It's meant to be variability about
15 a hundred. It's not meant to be -- sit right at the -
16 - at the edge and consider that as good as a hundred.

17 So my suggestion is there is a room to
18 give a lower than average rate increase to the classes
19 who are above that would apply to the GSL 3,100 and
20 greater than a hundred. It would also apply to one
21 (1) of the GS small classes. I'm not saying dramatic
22 moves like 10 percent. We're talking 1:2. It's a
23 difference of about 2.2 to 4.4 million in Hydro's
24 revenue. And it's -- there is a number that's been
25 calculated that what if we took ten (10) years to get

1 to unity and the number was 1.2 percent.

2 By the way, there was also claims made
3 at one point that Wuskwatim was going to do the same
4 thing, that Wuskwatim would take care of our revenue
5 cost coverage problem for industrials, because it was
6 going to do the same thing as everyone says Bipole and
7 Keeyask will do. And clearly they did not, so.

8 The last slide, 46. I hope it's the
9 last slide. On the issue of optional time of use
10 rates, I have been suggesting for some time and the
11 members have echoed in my -- to me the importance of
12 industrials having some options for how they manage
13 their costs. Many if not most jurisdictions, if you
14 walk into sign up for service, you have more than one
15 (1) option. Even here if you looking for service, you
16 have more than one (1) option. There's another rate
17 called a limited use of billing demand. You will make
18 your decision based on your expected load profile.

19 I'm suggesting one (1) more is needed,
20 which is a time of use one (1). It doesn't have to be
21 a rate design imposed on everyone. It could be done
22 on an optional basis. And that I don't -- what we've
23 seen to date is Hydro is -- is loathe to go down the
24 road of optional. As an example, BC Hydro has an
25 optional time of use versus the -- versus a base one

1 (1). It's poorly designed and not a lot of people use
2 it, but it -- it is an option.

3 The problem, of course, is that Hydro
4 hasn't brought forward a rate design, and the proper
5 way to design rates is with an eye to both embedded
6 costs in terms of a fairness sense, but also marginal
7 cost in terms of a rate design sense. And since our
8 marginal cost have changed so much, I think it's
9 acceptable for Hydro to say, I haven't thought through
10 quite how I would do it, even though a couple of years
11 ago they had a proposal.

12 I would only emphasize one (1) point
13 that seemed to be the theme of a number of the Board's
14 IRs, which is how do time of use rates help anyone if
15 no one shifts load. And my submission is time of use
16 rates help make the rates within a class fairer, even
17 if customers don't shift load.

18 If customers can shift load they can
19 bring benefits to the entire system. If a customer
20 can bump some of its load from on peak hours when
21 Hydro can get a good price to off-peak hours when
22 Hydro can't, even if it's not a lot of load, that's a
23 net benefit to the system. It will improve our export
24 prices. It'll improve Hydro's flexibility. And I --
25 and it could be a way that a customer could help

1 manage their bill increases or cut their costs. So
2 it's an upside of a time of use design. It's not
3 central to a time of use design. You don't require
4 load shifting to be able to come up with a time of use
5 design.

6 MR. ANTOINE HACAULT: With that I'd
7 like to thank the Board for its patience and its
8 indulgence in allowing Mr. Bowman to complete his
9 evidence.

10 THE CHAIRPERSON: Thank you. Thank
11 you, gentlemen. We're going to have Mr. Williams do
12 his cross-examination. I'm going to ask Dr. Williams
13 if we can defer his until after lunch. Mr.
14 Williams...?

15

16 CROSS-EXAMINATION BY MR. KEVIN WILLIAMS:

17 MR. KEVIN WILLIAMS: Thank you. Mr.
18 Bowman, as you're aware I'm acting on behalf of the
19 Business Council of Manitoba whose primary interest in
20 this proceeding relates to the credit rating of
21 Manitoba Hydro and the province, and the impact of
22 increased borrowing costs on the financial health of
23 Manitoba Hydro. If I could have you turn to your pre-
24 filed testimony, page 4 of 4, please. Under number 3,
25 towards the bottom of page.

1 You point out, sir, that Standard &
2 Poor's no longer considers Manitoba Hydro to be self-
3 supporting.

4 Isn't that correct?

5 MR. PATRICK BOWMAN: Yes.

6 MR. KEVIN WILLIAMS: And you point out
7 that at least three (3) other Canadian utilities that
8 were similarly reclassified to non-self-supporting,
9 and indicate that the downgrade was driven by a change
10 in Standard & Poor's basic -- basic methodology.

11 Do I have that right?

12 MR. PATRICK BOWMAN: Yes.

13 MR. KEVIN WILLIAMS: And putting aside
14 the reason for the -- for the downgrade, you would
15 agree with me that this is a significant change as to
16 how Standard & Poor (sic) has viewed these his --
17 utilities historically; isn't it?

18 MR. PATRICK BOWMAN: Yes.

19 MR. KEVIN WILLIAMS: And you would
20 agree with me, sir, that this significant change is
21 not likely to have a positive impact on utilities or
22 the provincial's credit -- province's credit ratings,
23 as applicable; correct?

24 MR. PATRICK BOWMAN: Mr. Williams, not
25 necessarily. In fact, Standard & Poor's actually had

1 documents that were conveniently provided by Hydro.
2 In one (1) of the interrogatories we asked them about
3 this issue of self-supporting government owned
4 enterprises. And they even have a caution in there of
5 saying, Be careful that you don't -- I'll go back a
6 step. The idea that a utility is self-supporting
7 means that when you look at its debt you understand it
8 will take care of its own debt and the province
9 doesn't have to. It's no longer tax supported. It's
10 -- its self-supporting.

11 And it's self-supported by its
12 revenues. If it's not self-supported by its revenues,
13 then you consolidate with the -- the province, and you
14 look at the total debt burden as well as the total
15 financial capability of those two (2) entities
16 together. In other words, you don't just bring the
17 debt. You bring Hydro's revenues to the province.
18 And there's a definition in -- in one (1) of the
19 Standard & Poor's reports attached to -- I believe,
20 it's MIPUG-8 that sets this out.

21 There's actually even a caution that
22 says, Be very careful, dear reader, it's their guide
23 about how they do ratings, that you don't sometimes
24 end up bringing self-supporting entities into a parent
25 and make the parent stronger as a result, because the

1 entity you're bringing in, compared to a government,
2 actually effectively has a balanced budget. It's
3 paying its own way. It's covering its costs. That's
4 better than a lot of governments are. So failing to
5 consider something self-supporting doesn't necessarily
6 mean that the parent's going to be worse off. It just
7 means --

8 MR. KEVIN WILLIAMS: Okay.

9 MR. PATRICK BOWMAN: -- that it's
10 going to be considered as a bundle.

11 MR. KEVIN WILLIAMS: Thank you. But
12 you would agree with me, sir, that this -- this change
13 in methodology and the comments as it relates to it no
14 longer being self-supporting, is a signal from
15 Standard & Poor's that they have concerns about
16 Manitoba Hydro's financial health that they hadn't
17 expressed previously.

18 Isn't that fair?

19 MR. PATRICK BOWMAN: I -- I think
20 Standard & Poor's words say that Standard & Poor's has
21 concerns. And I think that if you read through that
22 you'll find the -- the -- words to be effect of -- of
23 concerns and high levels of debt and the like. I
24 would be cautious about using a change driven by a
25 change in methodology to say that somehow that is a --

1 a signal about this utility.

2 I'm just suggesting as -- as -- that's
3 purely at an analytical framework level. If a
4 methodology change is what drove the change, I don't
5 think one would say it necessarily follows that it was
6 based on the facts of this utility. That -- it's
7 based on the measures that were applied. If you want
8 to find the quotes you're talking about, you'll find
9 them in Standard & Poor's report though.

10 MR. KEVIN WILLIAMS: Right. But my
11 point is, sir, is Standard & Poor's went out of their
12 way to make some new commentary that it hadn't made
13 ever before regarding concerns it had with respect to
14 Manitoba's self-supporting status.

15 Isn't that correct? It's in that
16 report and it's there for the first time; isn't it?

17 MR. PATRICK BOWMAN: I haven't gone
18 back through Standard & Poor's reports going back for
19 the -- the scale of -- of time we're talking about
20 here, but I wouldn't be surprised if it's there for
21 the first time.

22 MR. KEVIN WILLIAMS: And that, sir, is
23 a signal from Standard & Poor's that they have raised
24 a new concern. They have a new concern about Manitoba
25 Hydro.

1 Isn't that fair?

2 MR. PATRICK BOWMAN: Well, it's -- the
3 reports say what the reports say, Mr. Williams. I --
4 I would hate to put words in their mouth.

5 MR. KEVIN WILLIAMS: Well, sir, it
6 seems to me that -- that there's only four (4) options
7 that can occur as a consequence of Manitoba Hydro's
8 loss of self-supporting status as -- as Standard &
9 Poor's defines it. That is that Manitoba Hydro's
10 borrowing costs could go down, they could go up, they
11 could stay the same, or you're not in a position to
12 comment on it.

13 Which of the four (4) would you agree
14 with, sir?

15 MR. PATRICK BOWMAN: I -- I would give
16 the same evidence as previous witnesses that I don't
17 know that anyone is in a position to comment on what
18 would happen. They -- they sometimes move in the same
19 direction, sometimes move in different directions, and
20 -- but typically, a downgrade or a loss of self-
21 supporting status would be viewed as a -- as a
22 negative affect. Beyond that, what will actually
23 occur is -- is beyond what I think anyone can say with
24 -- with certainty.

25 MR. KEVIN WILLIAMS: Sir, broadly

1 speaking, as it relates to the credit markets and
2 interest cost, borrowers with lower credit ratings
3 typically pay higher interest costs.

4 Would you agree?

5 MR. PATRICK BOWMAN: Yes.

6 MR. KEVIN WILLIAMS: Now, in terms of
7 the change in methodology and the fact that Standard &
8 Poor's now notes that Manitoba Hydro is no longer
9 self-supporting, there's -- there's no notice that --
10 that Standard & Poor's gives of that.

11 It just happens; right? It shows up in
12 a report one (1) day; correct?

13

14 (BRIEF PAUSE)

15

16 MR. PATRICK BOWMAN: Sorry, Mr.
17 Williams, I was just discussing with the other
18 witnesses about the definition of notice. I -- I do
19 believe you will find routinely in those reports
20 outlooks, comments, watches, the sorts of things that
21 I would colloquially define as notice.

22 MR. KEVIN WILLIAMS: Right. But my
23 point is, is that in this case there was a change, and
24 it was that Standard & Poor's indicated they no longer
25 regarded Manitoba Hydro as self-supporting.

1 We've agreed on that, have we not?

2 MR. PATRICK BOWMAN: Yes.

3 MR. KEVIN WILLIAMS: And my point is,
4 there was no advance notice that they were going to do
5 it. It just showed up in a credit report.

6 MR. PATRICK BOWMAN: That's my
7 understanding. As a matter fact, the response --
8 again, I believe it's MIPUG-8 -- Manitoba Hydro 8
9 notes that Manitoba Hydro had no notice either, and
10 they -- after it happened it asked -- the response
11 asked what they did about it. And they -- they
12 emphasize that they did go -- have a number of
13 meetings with Standard & Poor's and -- and do their
14 homework, if you like, to figure out what had
15 happened. And -- and that's when they eventually
16 concluded that it was nothing that Hydro could have
17 done anything about it, and it wasn't necessarily fact
18 driven; it was methodology driven.

19 MR. KEVIN WILLIAMS: And you, sir, are
20 not in a position to say whether one (1) or both of
21 the other bond rating agencies may not alter their --
22 or change their methodology, which would result in
23 them not viewing Manitoba Hydro as self-supporting
24 going forward?

25 MR. PATRICK BOWMAN: I cannot say

1 that.

2 MR. KEVIN WILLIAMS: And, sir, on page
3 4-6 of your pre-filed testimony, you make the comment
4 that DBRS -- and this is in the last full sentence,
5 sir, on the page. You quote DBRS as indicating that:

6 "DBRS could consider reclassifying a
7 portion of the utility's debt to be
8 tax supported should the financial
9 health of the utility deteriorate to
10 the point where its expenses cannot
11 be recovered through rates."

12 You see that, sir?

13 MR. PATRICK BOWMAN: Yes, I -- and I
14 wouldn't be surprised if that sentence is -- is sort
15 of trite or al -- always present in -- in -- whether
16 it's written or not, in any -- in any credit rating
17 assessment because it's basically the test. It's if
18 rates can't cover costs or rates are not expected to
19 cover costs then the -- the debt is not self-
20 supporting. But one, presumably, must read rates here
21 meaning rates combined with the rate increases one may
22 be able to get if it became necessary.

23 MR. KEVIN WILLIAMS: And the purpose
24 behind Manitoba Hydro's rate increase in this case,
25 sir, is to -- is to, in part, improve their financial

1 circumstances based on the way they analyze it.

2 Isn't that fair?

3 MR. PATRICK BOWMAN: The -- I think
4 we've set out the purpose in -- of Hydro's rate
5 increase request is to get to a 75:25 within -- within
6 ten (10) years.

7 MR. KEVIN WILLIAMS: Now, sir, you
8 would agree with me that DBRS's comments that you
9 quote is a signal from DBRS that they have concerns
10 about Manitoba Hydro's debt levels?

11 MR. PATRICK BOWMAN: Mr. Williams, I
12 don't believe this sentence necessarily says that. I
13 don't -- I don't believe this sentence necessarily
14 should be read to be inconsistent with what KPMG said
15 either. There -- there are other places in these
16 reports where -- where metrics are analyzed and -- and
17 the credit rating agencies say where they've seen
18 erosion in metrics. But this sentence is simply
19 saying if this happens, then that would happen, which
20 is -- like I said, it's more a methodology quote than
21 a -- than a shot across the bow, I believe.

22 MR. KEVIN WILLIAMS: Well, I -- I --
23 sir you -- you've quoted it and says that -- that this
24 was a concern that -- that DBS (sic) raised. And my
25 point, sir, is -- is, essentially, that -- that that's

1 a signal from DBRS that they have concerns about
2 Hydro's debt levels.

3 Is it not?

4 MR. PATRICK BOWMAN: I believe that is
5 over reading into the sentence. In fact, I -- I quote
6 it to emphasize that the same considerations that I
7 speak about above, I believe, if I remember correctly,
8 in regard to -- sorry, directly below on page 4-7 in
9 regards to what Standard & Poor's cares about is also
10 cared about by DBRS.

11 In other words, nobody has any dispute
12 with the fact that Hydro's credit metrics are
13 different than a commercial utility. They're
14 different than a private utility. No -- no dispute
15 with that. And if you try to apply the metrics that
16 one (1) of these credit rating agencies would apply to
17 a private utility, Hydro will fall in -- in the bottom
18 category, if you like. Significant leverage, I think,
19 is what -- what Standard & Poor's calls it.

20 MR. KEVIN WILLIAMS: They -- they --
21 sir, they wouldn't have made that comment if they had
22 no concern about Manitoba Hydro's debt levels.

23 Wouldn't you agree with that?

24 MR. PATRICK BOWMAN: No, I'm
25 suggesting that what the comment is emphasizing is the

1 importance of the regulator. It's the importance of
2 the rate regime. It's the importance of being able to
3 adjust rates when it becomes necessary to ensure that
4 the bills are paid. That's what I'm saying, sir. And
5 -- and the next page emphasizes that in Standard &
6 Poor's methodology once you've reached the bottom tier
7 effectively the -- the numbers no longer matter.

8 What matters is a bunch of other
9 comments of, like, can I trust the regime. Are you in
10 a country that's stable. Are you in an industry that's
11 stable. All of which Hydro passes with spades. And
12 then finally it gets down do you have a regulator
13 that's stable and predictable and understandable. And
14 I don't read the DBRS comment to be saying anything
15 different than that. The rates is the key.

16 MR. KEVIN WILLIAMS: And -- and what
17 Hydro is asking for in this -- in this whole process
18 is to increase their rates as a consequence of the
19 fact that they allege that they're undergoing
20 increased costs.

21 Isn't that what this is all about?

22 MR. PATRICK BOWMAN: That -- that is
23 Hydro's assertion, sir.

24 MR. KEVIN WILLIAMS: Thank you. Those
25 are my questions.

1 THE CHAIRPERSON: Thank you, Mr.
2 Williams. We'll adjourn until one o'clock. Thank
3 you.

4

5 --- Upon recessing at 12:00 p.m.

6 --- Upon resuming at 1:03 p.m.

7

8 THE CHAIRPERSON: Thank you, Dr.
9 Williams...?

10 DR. BYRON WILLIAMS: I believe that
11 Mr. Hacault has something he wishes to say, and then
12 My Learned Friend from Manitoba Hydro, Ms. Fernandes
13 had some exhibits.

14 THE CHAIRPERSON: Okay. Dr. -- Mr.
15 Hacault...? I almost promoted you to doctor, sorry.
16 M. Hacault...?

17 MR. ANTOINE HACAULT: I'd just point
18 out that Mr. Forrest when he was speaking about moral
19 hazard, he believes he may have used a wrong
20 adjective, "improve" instead of "increase" so we'll
21 check the transcript and if it needs to be corrected
22 tomorrow we'll advise the Board.

23 THE CHAIRPERSON: Thank you. Ms.
24 Fernandes...?

25 MS. ODETTE FERNANDES: Thank you.

1 Good morning, Mr. Chair and panel members. Manitoba
2 Hydro has responses to three (3) undertakings it would
3 like to file. The first one is a response to Manitoba
4 Hydro Undertaking Number 33, which was marked as Hydro
5 Exhibit Number 122.

6

7 --- EXHIBIT NO. MH-122: Response to Undertaking
8 Number 33.

9

10 MS. ODETTE FERNANDES: The next one is
11 a response to Manitoba Hydro Undertaking Number 36,
12 which is Manitoba Hydro Exhibit Number 123.

13

14 --- EXHIBIT NO. MH-123: Response to Undertaking
15 Number 36.

16

17 MS. ODETTE FERNANDES: And finally, we
18 have a response to an undertaking which was taken at
19 transcript page 3088 and that would be marked as
20 Manitoba Hydro Exhibit Number 124.

21

22 --- EXHIBIT NO. MH-124: Response to Undertaking
23 taken at transcript page
24 3088.

25

1 THE CHAIRPERSON: Thank you. Dr.
2 Williams...?

3 DR. BYRON WILLIAMS: Yes, and good
4 morning -- good afternoon, members of the panel. Just
5 on your table as well, or your desk as well, should be
6 an -- a correction to the testimony of Mr. Harper,
7 which we would suggest be marked as CC-48.

8 And for the transcript, it relates to
9 transcript pages 5368 through 5371, and Mr. Harper to
10 facilitate the cross-examination had accepted some
11 figures, subject to check.

12 Upon reviewing those figures rather
13 than accepting the \$150 million figure used by
14 Manitoba Hydro would revise that to \$100 million. So
15 that's the short, in terms of Mr. Harper's correction.

16

17 --- EXHIBIT NO. CC-48: Correction to the
18 testimony of Mr. Harper
19 relating to transcript
20 pages 5368 through 5371.

21

22 CROSS-EXAMINATION BY DR. BYRON WILLIAMS:

23 DR. BYRON WILLIAMS: Good morning --
24 good afternoon, I'm not sure what time of day it is
25 MIPUG panel and, Mr. Forrest, this will be the

1 culmination of twenty-five (25) years that you and I
2 have see -- been seeing each others in regulatory
3 hearings; is that correct, sir?

4 MR. GERALD FORREST: Yes, it is,
5 Byron, and it's been a pleasure all through those
6 twenty-five (25) years, most of it anyway.

7 DR. BYRON WILLIAMS: I can remember a
8 few early moments that may not have been so.

9 I wonder if I could pull up from the
10 MIPUG material today Exhibit 26, slide 17; that would
11 be from the PowerPoint presentation today, Kristen.

12 And Mr. Osler, directing your attention
13 to the recommendation that appears at the bottom of
14 this page, the second last arrow is to re-establish
15 consideration of relevant MRET as key reserve
16 requirement.

17 That was your recommendations, sir?

18 MR. CAMERON OSLER: Yes.

19 DR. BYRON WILLIAMS: And by MRET, just
20 for the purposes of clarification, that refers to a
21 drought target coupled with self-insurance; is that
22 what you mean by that -- that -- that acronym, sir?

23 MR. CAMERON OSLER: That acronym in --
24 and as it was defined in the evidence that I reviewed
25 from the '80s and the early '90s came to be equivalent

1 to a two (2) year drought and a self-insurance
2 provision. We were not exclusively limiting it to
3 that. In this hearing, and in recent proceedings, the
4 drought protection has been expanded to a five (5) or
5 seven (7) year droughts, and that would be consi --
6 consistent with the concept of consideration of a
7 relevant MRET for today.

8 And the Board may want to include some
9 provision for self-insurance, but certainly the five
10 (5) or -- we were focused on the five (5) versus the
11 seven (7) year type of drought test that is being used
12 in proceedings today.

13 DR. BYRON WILLIAMS: And -- and that
14 was my point of clarification, sir, you weren't
15 focused on the two-year figure as it was historically
16 used, you were looking at the longer term five (5) to
17 seven (7) year period in terms of a low probability
18 but severe impact event?

19 MR. CAMERON OSLER: Yes. We were
20 looking at it as the highest single risk as it was
21 back then redefined with modern parameters and numbers
22 and the key thing that you want to make sure that
23 you're paying attention to, in that context, in terms
24 of financial strength of the Company.

25 DR. BYRON WILLIAMS: Thank you. And,

1 Mr. Forrest, near the start of your evidence this
2 morning and we'll stay on slide 17. But you refle --
3 you referred to one of your regrets relating to the
4 accountability legislation introduced in Manitoba in
5 the late 1980s was the absence of Public Utility Board
6 oversight over capital programs.

7 Do you recall that statement, sir?

8 MR. GERALD FORREST: Yes, I do.

9 DR. BYRON WILLIAMS: And you -- you
10 made that statement -- or that observation in the
11 context of the 1980s related to both rate turmoil, as
12 well as the rate -- the findings of the Tritschler
13 reports, sir, is that correct?

14 MR. GERALD FORREST: That's correct.

15 DR. BYRON WILLIAMS: Sir, on slide 17
16 when we look at your's and Mr. Osler's
17 recommendations, we don't find a recommendation for
18 PUB oversight of capital programming on this page.

19 Do we, sir?

20 MR. GERALD FORREST: That's correct.

21 DR. BYRON WILLIAMS: And is that
22 because, in your view, the -- the horse or the cow has
23 left the barn and -- and -- or -- or is it an
24 oversight, sir, or is that a recommendation you would
25 make?

1 MR. GERALD FORREST: You know, Mr.
2 Williams, that is a very, very significant question.
3 The Board has this application before them and part of
4 the consequences of this application before them, they
5 are dealing with the financial results of what had
6 happened over the past few years and going forward,
7 the results that occur in the years coming ahead.

8 So from my particular point of view,
9 while I wouldn't have had any difficulty in making
10 that recommendation, I -- I did want to indicate to
11 the Board that that was, in my opinion, what we want -
12 - would like to do in the long term is not to have
13 this problem exist again.

14 In other words, what I was trying to
15 outline earlier today, we've had the problem back two
16 (2) or more decades ago a similar problem and now
17 we're into that problem again. And as adults, we
18 should at some point in time recognize the process
19 isn't dealing with the issue the way we would like it
20 to be dealt with. So from my particular point of
21 view, in the long term, the Board should have some
22 oversight responsibility on capital programming in
23 Manitoba. It drives your result.

24 DR. BYRON WILLIAMS: Thank you for
25 that, sir. Mr. Bowman, we can go to slide 41 for a

1 second, if you -- if you wish, but you make the -- you
2 note at the bottom on the right, the observation that
3 lower marginal -- a lower estimate of marginal costs
4 should lead to reduce levels of cost-effective DSM.

5 You make that statement, sir?

6 MR. PATRICK BOWMAN: Yes.

7

8 (BRIEF PAUSE)

9

10 DR. BYRON WILLIAMS: And your bigger
11 picture argument, sir, with regard to demand-side
12 management as it's reflected in Manitoba Hydro's
13 forecasts, is that Hydro's DSM spending assumptions do
14 not appear to be based on integrated resource
15 planning; would that be fair, sir?

16 MR. PATRICK BOWMAN: Yes.

17 DR. BYRON WILLIAMS: And while in your
18 evidence you may not specifically refer to a cost-
19 effective DSM, you do suggest that in the IRP context
20 one should look at the ability of demand-side
21 management to achieve both economic -- well, economic
22 benefits, including rate benefits; agreed?

23 MR. PATRICK BOWMAN: Yes.

24 DR. BYRON WILLIAMS: Sir, can I try to
25 pin you down on how you would define "cost effective

1 demand-side management?"

2 MR. PATRICK BOWMAN: For the purposes
3 of this slide you have in front of you, I'll say that
4 cost-effective would follow -- could follow any
5 definition and come to the conclusion that's set out
6 there. That if you see the value of the power as
7 measured by your marginal costs, whatever way you
8 estimate those, declining, whatever metric you're
9 using to determine cost-effectiveness or -- or
10 efficiency should be responsive to that.

11 So I -- I don't -- I think that the
12 conclusion on the slide that you brought us to is --
13 is conclusion independent. Are -- are -- sorry,
14 definition independent.

15 DR. BYRON WILLIAMS: Sir, at -- at a
16 high level, as amended in the course of this process,
17 would it be fair to say that Manitoba Hydro's marginal
18 costs which they use for evaluating demand-side
19 management are based on the export value of energy,
20 plus a value for capacity started in the early 2030s.

21 Would that be a fair characterization,
22 sir?

23 MR. PATRICK BOWMAN: Well, for the
24 generation component.

25 DR. BYRON WILLIAMS: And Mr. Bowman,

1 is that a definition you can work with in terms of
2 cost-effective DSM?

3 MR. PATRICK BOWMAN: It -- it is. I
4 think -- particularly you need to look at the forecast
5 in front of you to make sure that you're working with
6 a sensible concept of what level of DSM you should be
7 targeting. If we're immediately ahead of addition of
8 new plant and your -- your costs are going to be going
9 up in any event, then aggressively applying a
10 definition like what we call the RIM test, RIM test is
11 a DSM moniker meaning no matter how much DSM I do,
12 rates should always be lower as a result of doing the
13 DSM. And so there's -- keep that concept in your head
14 of the RIM test.

15 If you're about to add a new plant and
16 your rates are going to go up anyway and you're --
17 someone brings you an alternative running DSM that
18 causes your rates to go up, but not as much as they
19 would have with the new plant; that is cost-effective
20 DSM, even though it would fail a RIM test.

21 But if you're decades away from adding
22 your next plant or making your next commitment, then I
23 think the -- the rate impact type of test has more
24 relevance. I don't think you should be wedded to it,
25 or strictly use of -- of rate impact type test, but I

1 think it's -- it's a -- it's a good indication that
2 your DSM spending -- you should be very cautious if
3 your DSM spending is leading to rate increases to all
4 the other customers and bill savings for the
5 participating customer. I think that is -- there's --
6 there's -- that fails a basic principle of -- of sort
7 of cost-effectiveness.

8 DR. BYRON WILLIAMS: Mr. Bowman, would
9 you agree that proper integrated resource planning
10 involved -- involves placing every resource option,
11 including energy efficiency on an equal footing as a
12 starting part of your analysis, sir?

13 MR. PATRICK BOWMAN: Yes.

14 DR. BYRON WILLIAMS: And it's
15 important, you would agree, to look at conservation
16 measures as a stand-alone energy resource competitive
17 with other generation resources; correct?

18 MR. PATRICK BOWMAN: Yes, I was -- I
19 want to just be a little bit cautious because I think
20 that's may be, in some cases, a little bit too narrow
21 a definition of -- of -- of energy efficiency or of
22 conserv -- the role they can play. For example, at
23 NFAT, you know, we had a -- a path and Hydro looked at
24 some DSM plans and many of the DSM plans were -- were
25 economic regardless of which path you followed. So

1 they were sort of resource plan agnostic, if you like.

2 So it's not only about does a DSM plan
3 help you meet a resource need. It also could help you
4 on a -- on a cost front separate from, do I build now
5 or do I build later. But I -- I think that's a -- it
6 is -- it is a fair characterization if you're going to
7 do -- if you're going to do a resour -- integrated
8 resources planning, DSM should be one (1) of the
9 resources you're assessing.

10 DR. BYRON WILLIAMS: And you would
11 agree that proper integrated resource planning should
12 lead to optimized outcomes for consumers?

13 MR. PATRICK BOWMAN: You know, people
14 will often use the concepts of integrated resource
15 planning with sort of a least cost planning framework;
16 that overall it will lead to the -- the lowest overall
17 cost for the -- for the system and, ideally, for any
18 given customer on the system, although you don't
19 always get the benefits to flow through to different
20 customers equally.

21 DR. BYRON WILLIAMS: Mr. Bowman, you'd
22 agree that cost-effective DSM would have benefits for
23 consumers over the long run, including the potential
24 to defer expensive new load?

25 MR. PATRICK BOWMAN: You know, as an

1 overall program, cost-effective DSM or DSM in general
2 can, obviously, affect your ability to -- to meet load
3 or to build a new plant, if that's the -- the core of
4 your question. As I say, this may not be the only
5 part of DSM you're doing and -- and it may not be the
6 only justification for it.

7 But it's -- it's one (1) piece of why -
8 - why one would assess DSM and it's one (1) of the
9 concerns you'd have about large DSM programs at this
10 point is sort of ability to defer the next plant is --
11 is -- is very intangible.

12 DR. BYRON WILLIAMS: Mr. Bowman,
13 perhaps going to some of the points you've been making
14 in my previous questions, you'd also agree for
15 individual consumers who are able to benefit from
16 programming, cost-effective DSM has the potential to
17 mitigate bill impacts as well, sir?

18 MR. PATRICK BOWMAN: Yes.

19 DR. BYRON WILLIAMS: And, sir, to the
20 extent that export opportunities exist, and that
21 export prices are equal to or greater than the
22 Utility's cost of demand-side management measures
23 freed up domestic load used for export sales can serve
24 to mitigate or avoid the costs associated with DSM
25 measures?

1 MR. PATRICK BOWMAN: Yes. It --
2 avoid. Maybe can serve to mitigate, offset, justify.
3 I'm not sure about "avoid" but, you know.

4 DR. BYRON WILLIAMS: And, Mr. Bowman,
5 you're aware that the Efficiency Manitoba legislation
6 was proclaimed today?

7 MR. PATRICK BOWMAN: I -- I was aware
8 there was a press release today about Efficiency
9 Manitoba. I'd have to admit I've been tied up this
10 morning.

11 DR. BYRON WILLIAMS: Sir, you devoted
12 a number of pages in your evidence to discussing the
13 implications of -- if any, of the Efficiency Manitoba
14 legislation on -- on integrated resource planning in
15 Manitoba; agreed?

16 MR. PATRICK BOWMAN: I have some
17 comments of that in the -- in the testimony, yes.

18 DR. BYRON WILLIAMS: And, sir, in
19 terms of trying to get to the heart of your
20 conclusions there, would it be fair to say that while
21 you accept that the Act specifies a predetermined
22 value as a savings target, you would also acknowledge
23 that the Act provides for a role for both the agency
24 and the PUB to comment on the appropriateness of the
25 target; agreed?

1 MR. PATRICK BOWMAN: Yes. And,
2 actually, I believe Manitoba Hydro's as well, and
3 others. Not just the agency and the PUB.

4 DR. BYRON WILLIAMS: Thank you and --
5 and ultimately, sir, it's your conclusion as well that
6 the Lieutenant Governor in Council may also, by
7 regulation, adjust that target?

8 MR. PATRICK BOWMAN: Mr. -- Dr.
9 Williams, I -- I don't need to get into interpreting
10 legislation, but my understanding is the Lieutenant
11 Governor in Council is the only one who can adjust the
12 target.

13 DR. BYRON WILLIAMS: Okay.

14 MR. PATRICK BOWMAN: The rest make
15 recommendations.

16 DR. BYRON WILLIAMS: Mr. Bowman,
17 Bipole III will be coming into service at an estimated
18 cost of \$5 billion in the foreseeable future?

19 MR. PATRICK BOWMAN: Yes.

20 DR. BYRON WILLIAMS: And Bipole III is
21 not yet included in the -- the cost of service 18 or
22 the cost of service study, agreed?

23 MR. PATRICK BOWMAN: Most of Bipole
24 III is not included. There's actually a -- as I went
25 through in my -- my response to Manitoba Hydro IR --

1 an issue which Manitoba Hydro called an -- an error,
2 curiously but about \$40 million of the costs of Bipole
3 III is actually in -- in rates before Bipole III comes
4 into service, and that's -- some of that is the Riel
5 230 kV station and some of that is the capital taxes
6 associated with Bipole III, which are not capitalized
7 to the project. Capital taxes on all of those big
8 projects are flowing through -- through rates today,
9 they're not -- not capitalized.

10 DR. BYRON WILLIAMS: So the 4.9
11 billion or more of Bipole III is -- is not
12 incorporated in the current cost of service studies,
13 sir?

14 MR. PATRICK BOWMAN: Well, I'm -- I
15 apologize, I am referring to the annualized cost.

16 DR. BYRON WILLIAMS: Ah, annualized.

17 MR. PATRICK BOWMAN: So Bipole III's
18 annualized cost is somewhere in the \$300 million
19 range; of that 300 million, about 40 is currently in
20 rate.

21 DR. BYRON WILLIAMS: Thanks.

22 MR. PATRICK BOWMAN: And then there's
23 another tranche to come in. Obviously, the -- the
24 bulk of it once it's in-service.

25 DR. BYRON WILLIAMS: And when -- it

1 would be fair to say that the -- it is not fully
2 incorporated into the cost of service study?

3 MR. PATRICK BOWMAN: I'm sorry, yeah,
4 that absolutely is not fully incorporated into the
5 cost of service study.

6 DR. BYRON WILLIAMS: And when it is
7 incorporated into the cost of service study, sir, you
8 would expect the result to be that bulk power costs in
9 the cost of service study will be higher; agreed?

10 MR. PATRICK BOWMAN: Yes.

11 DR. BYRON WILLIAMS: Notably higher?

12 MR. PATRICK BOWMAN: Yes.

13 DR. BYRON WILLIAMS: I wonder,
14 Kristen, if I can get you to pull up Board Order
15 116/08, page 347. And towards the bottom of that
16 decision.

17 And here you see, Mr. Bowman, back in
18 2008 an Order for Manitoba Hydro to prep -- to prepare
19 a thorough and quantified risk analysis and can --
20 include improbabilities of -- of identified
21 operational and business risks, sir?

22 MR. PATRICK BOWMAN: Yes.

23 DR. BYRON WILLIAMS: And among the
24 factors identified are interest rates and drought;
25 correct?

1 MR. PATRICK BOWMAN: Yes.

2 DR. BYRON WILLIAMS: And while Kristen
3 is turning up the background paper, appendix C to your
4 evidence, you heard this morning, Mr. Bowman, Mr.
5 Forrest advert to the fact that there was a new tool
6 available to this Board, namely, uncertainty analysis
7 that was not available to the Public Utilities Board
8 back when -- when -- when he and I were somewhat
9 younger in the 1990s or 2000s?

10 MR. PATRICK BOWMAN: Yes. I'll --
11 I'll just say, for the record, the -- the
12 recommendation you took me to I believe if you scale
13 back in that Order, you'll find that it -- it arises -
14 - linked to testimony I gave the Board about things
15 they should be thinking about. It eventually led to a
16 hearing called -- which was called the Risk Hearing
17 and came out of it with Hydro being pressured to do
18 more quantification and I believe there's a straight
19 line from that to the uncertainty analysis as -- being
20 framed as a response to a Directive coming out of
21 that. So, I think the two (2) are -- are well linked.

22 DR. BYRON WILLIAMS: And -- and, in
23 essence, Mr. Bowman, the uncertainty analysis is new
24 in the context of General Rate Applications for
25 Manitoba Hydro; agreed?

1 MR. PATRICK BOWMAN: Yes. The first
2 that we saw it was in the -- the previous interim rate
3 application, but it was determined that it wasn't part
4 of the scope of that. So yes, it's absolutely the
5 first.

6 DR. BYRON WILLIAMS: And we did see
7 versions of it, not in the GRA context, but in the NF
8 -- Need For and Alternatives con -- context, both from
9 -- from Manitoba Hydro, as well as from Morrison Park;
10 agreed?

11 MR. PATRICK BOWMAN: I'm going to
12 suggest that -- Morrison Park I completely agree with.
13 There's -- their -- their submission fully dealt with
14 uncertainty analysis and -- and some probabilistic
15 modelling.

16 Manitoba Hydro did some scenario
17 modelling, certainly across the twenty-seven (27)
18 cases we're talking about. I -- I don't think that
19 model was, at that point, refined enough to do
20 anything like we're talking here, although I -- like I
21 said, I will say Morrison Park's probably was --
22 actually a step ahead of where -- where Hydro's
23 material is right now.

24 DR. BYRON WILLIAMS: And, sir -- and
25 thank you for that clarification.

1 The uncertainty analysis as presented
2 in this General Rate Application differs from previous
3 Hydro analysis, I'll suggest to you, in -- in the fact
4 that rather than looking at single risks, it is able
5 to explore a combination of risks, such as export
6 prices, water flows and interest rates; agreed?

7 MR. PATRICK BOWMAN: Yes. I guess
8 just to clarify on that. The IFFs have always had a
9 risk section. They always assess single risks and
10 they show you the impact of that and I was quoting
11 things like the five (5) year drought cost from that.

12 NFAT moved the ball some ways by doing
13 twenty-seven (27) scenarios that had multiple risks
14 considered at the same time, but they were only
15 considered, like I said, across twenty-seven (27)
16 scenarios without weighting, and with -- with just a
17 high/low base set of assumptions.

18 DR. BYRON WILLIAMS: And in terms of
19 moving the dialogue as well rather than consider just
20 a single scenario, what the uncertainty analysis
21 allows for is a combination of future scenarios, sir,
22 that gives some sense of the probability of a given
23 outcome; agreed?

24 MR. PATRICK BOWMAN: Yes, exactly.
25 That's my point. The NFAT had a -- like, twenty-seven

1 (27) but it didn't tell you how to weight them. This
2 gives you a sense of how to weight.

3 DR. BYRON WILLIAMS: And out of the
4 uncertainty analysis, sir, Manitoba Hydro is able to
5 produce a set of pro forma financial statements,
6 including income, balance sheet and statement of
7 cashflows; agreed?

8 MR. PATRICK BOWMAN: Do you mean for
9 every one of the input assumptions? I -- I presume
10 that's the case, we didn't really have -- we didn't
11 have a focus on, like, the six (6) page output for all
12 of a thousand scenarios. We would focus on, choose a
13 variable and graph it across the probabilities
14 associated and that's what you'll see in this backup
15 paper.

16 DR. BYRON WILLIAMS: Okay and thank
17 you. And, sir, I'll suggest to you and ask you to
18 confirm that the assumption within Hydro's methodology
19 is that the three (3) risk factors, namely, interest
20 rate, export prices and water supply variability are
21 mutually independent; agreed?

22 MR. PATRICK BOWMAN: The modelling has
23 them mutually independent.

24 DR. BYRON WILLIAMS: So in effect,
25 sir, variation in one (1) parameter is independent of

1 the variation in another?

2 MR. PATRICK BOWMAN: Correct.

3 DR. BYRON WILLIAMS: No correlation is
4 assumed?

5 MR. PATRICK BOWMAN: That's my
6 understanding of how the model is run.

7 MR. MATTHEW GHIKAS: Mr. Chairman, if
8 I might just interject here. I've -- I've let this go
9 for quite a while and I certainly let it go with My
10 Friend Mr. Hacault was asking questions of -- of My
11 Friend Dr. Williams' witnesses, but these are two (2)
12 wit -- Intervenors who have cosponsored financial
13 evidence from Mr. Colaiacovo -- anyway, you know who I
14 mean.

15 THE CHAIRPERSON: Yes.

16 MR. MATTHEW GHIKAS: And we're now
17 into the nitty-gritty of finances and it's very clear
18 to me that questions are leaving somewhere where they
19 both agree on what the answer should be and, in my
20 submission, it's -- it's simply well into the range of
21 friendly cross and, in my submission, it -- it should
22 be discouraged.

23 THE CHAIRPERSON: Dr. Williams...?

24 DR. BYRON WILLIAMS: With -- with
25 respect to My Learned Friends, just as one example,

1 Mr. Chair. There's no evidence from Mr. Bowman in
2 terms of correlations in his appendix C; that's
3 something that is flagged by KPMG as a limitation of
4 this analysis. It is something we'd like to
5 understand his position on in terms correlation just
6 as one example.

7 So from our client's perspective, this
8 is evidence put on the record by MIPUG that -- that we
9 are exp -- entitled to explore where they come down on
10 some of these issues.

11 THE CHAIRPERSON: We'll allow to
12 proceed and determine how much weight we want to give
13 to it at a later time.

14

15 CONTINUED BY DR. BYRON WILLIAMS:

16 DR. BYRON WILLIAMS: Mr. Bowman, while
17 you expressed some concerns about the uncertainty
18 analysis as presented by MIPUG and -- and also as
19 adopted and explored by KPMG, you are generally
20 positive about the developments, sir?

21 MR. PATRICK BOWMAN: Yes.

22 DR. BYRON WILLIAMS: Sir, you're aware
23 that KPMG in terms of the Manitoba Hydro analysis in
24 its 2015 report found at appendix 4.1., takes some
25 issue with the fact that it does not take into account

1 correlations; agreed?

2 MR. PATRICK BOWMAN: Yeah, I reviewed
3 that at one point, I -- yes.

4 DR. BYRON WILLIAMS: And certainly --
5 there has been some suggestion, certainly in the KPMG
6 report, that Manitoba Hydro management believes there
7 may be some correlation between interest rates and
8 energy prices; agreed, sir?

9 MR. PATRICK BOWMAN: Yes, and we heard
10 the same at NFAT.

11 DR. BYRON WILLIAMS: And, sir, in
12 essence, since energy prices tend to improve Manitoba
13 Hydro's far -- fin -- financial performances, while
14 higher interest rates tend to hamper it, I'll suggest
15 to you that the resulting financial impacts may be
16 partially off -- offsetting?

17 MR. PATRICK BOWMAN: Yes.

18 DR. BYRON WILLIAMS: And so, sir, to
19 the extent that the analysis assumes no correlation,
20 I'll suggest to you it is more conservative and
21 suggests higher var -- variability than the presence
22 of correlation would suggest?

23 MR. PATRICK BOWMAN: Dr. Williams, if
24 you're saying if the two (2) variables don't operate
25 completely independently, they tend to move with some

1 degree of overlap, to use a colloquial, and they have
2 offsetting impacts on Hydro, that would mean that the
3 cone of probabilities may not be as wide as presented,
4 because the -- the bad from one will tend to arise
5 when the good from the other does. Then I -- I -- I
6 would agree that's what KPMG is saying and I think
7 that is -- that that is possibly a -- a limitation of
8 the model. I -- I didn't spend a lot of time
9 covering it. I don't know that it would be material,
10 but I think it would be part of the -- of the type of
11 advancement work someone might want to do.

12 DR. BYRON WILLIAMS: And Mr. Bowman,
13 for the purposes of your review of uncertainty
14 analysis of Manitoba Public -- Manitoba Hydro, did you
15 review the dynamic capital adequacy testing undertaken
16 by Manitoba Public Insurance for the purposes of
17 setting the rate stabilization review?

18 MR. PATRICK BOWMAN: No.

19 DR. BYRON WILLIAMS: You did not
20 explore whether or not that analysis incorporates
21 management action as a possible response to adverse
22 events, sir?

23 MR. PATRICK BOWMAN: No. I comment on
24 that concept in some detail in the background papers
25 but I didn't review whether MPI uses that, no.

1 DR. BYRON WILLIAMS: Mr. Bowman, would
2 you see value from a regulatory perspective in
3 exploring methodologies that other Crowns regulated by
4 the PUB employ in testing the adequacy of their
5 reserves for rate stabilization purposes?

6 MR. MATTHEW GHIKAS: Mr. Chairman, I'm
7 sorry, risking trying your patience here, it -- it's -
8 - this is clearly a very friendly cross and, in my
9 submission, it's inappropriate, not just something
10 that should go to weight. It should be discontinued.

11 THE CHAIRPERSON: Dr. Williams...?

12 I'm just -- I'm wondering about the
13 suggestion of the DCAT and the RSR, and how that, you
14 know --

15 DR. BYRON WILLIAMS: How it -- how it
16 relates, sir?

17 THE CHAIRPERSON: Yeah. I mean, if
18 you -- if you want to raise that later on in terms of
19 this witness, though, I'm not sure --

20 DR. BYRON WILLIAMS: Well, sir --
21 sorry, I didn't mean to interrupt.

22 THE CHAIRPERSON: No, go ahead.

23 DR. BYRON WILLIAMS: Certainly, all I
24 was meaning to point out, sir, is that this was an
25 analysis that Mr. Bowman had not undertaken. To me

1 that's a bit of a limit to his evidence, but I -- I
2 see that the Board is wondering whether I'm straining
3 -- straining this so I'm prepared to move on.

4

5 CONTINUED BY DR. BYRON WILLIAMS:

6 DR. BYRON WILLIAMS: A final point,
7 Mr. Bowman, you recognize, sir, that while you compare
8 the approaches of KPMG in terms of -- in terms of the
9 analysis of table C3 and table C4 in your evidence,
10 comparing their 2017 results versus their 2015
11 results.

12 You recall doing that this morning,
13 sir? You recall doing that --

14 MR. PATRICK BOWMAN: Can you give me
15 the reference again just to --

16 DR. BYRON WILLIAMS: It's just -- C --
17 page 3 of Exhibit 27.

18 MR. PATRICK BOWMAN: Oh, yes, yes,
19 yes, absolu -- I'm sorry, I'm with here.

20 DR. BYRON WILLIAMS: And, sir, you'll
21 accept that the methodologies in -- in -- in doing the
22 examination of MH-14 were somewhat different from the
23 methodology from doing MH-16; agreed?

24 MR. PATRICK BOWMAN: The -- the key
25 difference that I'm aware of is that once scenario

1 uses nine hundred and eighteen (918) runs and one uses
2 two thousand six hundred and seventy-three (2673) runs
3 which is discussed in some detail in Hydro's evidence
4 as -- as being a practicality that they've adopted to
5 make the model easier to run and -- and more workable
6 and they provide us quite a bit of discussion showing
7 that it makes effectively no difference in the
8 results. So that it was a -- a -- I will call a
9 model improvement. But otherwise, the -- the intent
10 is that it doesn't lead to different results.

11 DR. BYRON WILLIAMS: The
12 methodological differences, sir, don't change your
13 conclusions?

14 MR. PATRICK BOWMAN: That's my
15 understanding and that's Hydro's submission as well,
16 and that -- those -- that's the key difference I know
17 between these two (2) graphs.

18 DR. BYRON WILLIAMS: Mr. Chair and
19 members of the Panel, I thank you for that.

20 THE CHAIRPERSON: Thank you, Dr.
21 Williams. Mr. Orle, I believe it's your turn.

22

23 CROSS-EXAMINATION BY MR. GEORGE ORLE:

24 MR. GEORGE ORLE: Thank you, Mr. Chair.
25 My first question is directed to -- to Mr. Bowman and

1 it's in regards to page 12 of his prefiled evidence.

2 And I'm starting at the line number 8, Mr. Bowman and
3 your discussion in regards to DSM.

4 And your suggestion is that the Board
5 should reduce its assumptions for -- for DSM in its
6 calculations?

7 MR. PATRICK BOWMAN: Yes.

8 MR. GEORGE ORLE: And when you say
9 "reduce your assumptions," would I be correct in
10 saying that what you're saying is reduce either the
11 programs or the amount of money to be saved through
12 DSM programs?

13 MR. PATRICK BOWMAN: It could be the
14 range of programs. It would be -- probably --
15 probably the biggest one would be the -- the -- the
16 range and scale of -- of the programs, yes.

17 MR. GEORGE ORLE: And to the extent
18 that that would affect low income participants in the
19 programs, this would have a higher impact upon them
20 than it would upon other ratepayers?

21 MR. PATRICK BOWMAN: Well, Mr. Orle,
22 the assertion here is that if you're going to do DSM
23 consistent with integrated resource planning, and your
24 marginal costs drop by a third and they were already
25 significant down from when the plan was developed,

1 your DSM should respond in order to achieve an
2 economic level of DSM.

3 The low efficiency programs have never
4 been justified on the basis of being an economic
5 program of DSM. If you look at Hydro's test across
6 DSM, there's always a -- a large bar, if you will, on
7 the end which is the type of affordable energy and
8 low-income DSM programs that have -- have not passed
9 the same type of economic thresholds and so I don't
10 think changing the -- changing the tests are likely to
11 affect that component of the programs.

12 MR. GEORGE ORLE: But if the purpose
13 is to mitigate the impact of rate increases then,
14 really, how would a low income electrical ratepayer be
15 able to mitigate the impact of rate increases without
16 having an effective DSM program available to them?

17 MR. PATRICK BOWMAN: Well, I'm saying,
18 Mr. Orle, that the -- that all Manitobans including
19 low income would be better off by starting with a
20 lower rate on their bill.

21 The fact that someone could get their
22 load down and their units down as a result of
23 participating in a low income program would be a
24 supplement to that. And I'm -- I'm not suggesting in
25 any way here that -- that some type of low income

1 program that there was never judged on this threshold
2 to begin with be reassessed because the -- the numbers
3 that go into the -- the threshold changed.

4 MR. GEORGE ORLE: My next question is
5 for Mr. Osler and it's in regards to slides 16 and 17
6 of today's presentation. Thank you.

7 And this is in respect to -- to your
8 finding that the ratepayers are funding \$341 million a
9 year for capital debt and water rentals which are
10 direct payments to the -- to the province?

11 MR. CAMERON OSLER: Yes.

12 MR. GEORGE ORLE: And in your
13 suggestion to the Public Utilities Board, you indicate
14 that a ten (10) year deferral by the province would
15 save a significant amount of money to Hydro, and I
16 believe that you've got that set out in the last line
17 on slide 17?

18 MR. CAMERON OSLER: Yes.

19 MR. GEORGE ORLE: And you indicate
20 there that there would be a reduction of cost to Hydro
21 of 130 million in 2018?

22 MR. CAMERON OSLER: Yes.

23 MR. GEORGE ORLE: And I note, sir, and
24 I don't know whether this is an error or -- or not,
25 but when you talk about the 341 million, you include

1 the water rentals but in your recommendation of a ten
2 (10) year deferral, you don't mention water rentals?

3 MR. CAMERON OSLER: That is correct.
4 For the reasons that I gave earlier that we were just
5 focused on the capital portion. We -- we were not
6 meaning to the little water rentals.

7 MR. GEORGE ORLE: Okay. The water
8 rentals, if they were included, would increase the
9 amount of the saving to Hydro?

10 MR. CAMERON OSLER: It certainly
11 would, sir. And the exhibit that the information
12 comes from is PUB-Manitoba Hydro 1-21. So you can --
13 the Board and any interested party can figure out how
14 much more it would increase the numbers. In 2018...

15

16 (BRIEF PAUSE)

17

18 MR. CAMERON OSLER: MIPUG 26, page 8
19 of 23. I'm sorry, MIPUG-27 I'm told.

20 And the Keeyask impact is shown there
21 as separate from the other one. So the 2018, is that
22 the first... date that we gave in that answer?

23 MR. GEORGE ORLE: Yes.

24 MR. CAMERON OSLER: Okay. So Keeyask
25 is not doing any water yet in terms of generation. By

1 2022 it's only \$4 million, sir, for -- yeah. But it
2 goes up dramatically in 2023 to 14, 15 and 18, et
3 cetera. So, Keeyask doesn't start generating until
4 you see these water rentals start to have an impact in
5 these numbers, but you can -- you can get the relevant
6 information from that exhibit.

7 MR. GEORGE ORLE: So if I just wanted
8 that and included it within the ten (10) year period
9 that you're talking about, I would just take the --
10 the numbers from 2022 and add it on to the numbers
11 going up to two twenty-eight (228), and that would be
12 added savings for Hydro?

13 MR. CAMERON OSLER: They would be
14 added savings taking that exhibit and looking at it.
15 You'd have to get for different years the -- the right
16 numbers, but right.

17 MR. GEORGE ORLE: And I've just done
18 some rough calculations and looking at the numbers
19 that you've set out, not including the water rentals,
20 am I correct that when you set out 130 million in 2018
21 that's an annual saving and that wouldn't continue for
22 the full ten (10) years?

23 MR. CAMERON OSLER: It's an annual
24 saving, but when you go look at the exhibit, it will
25 vary a bit by year -- year-by-year but not -- in the

1 time periods we're talking about it doesn't vary
2 materially. The water rentals, if I had included
3 them, would have been zero and then four (4) and they
4 would have gone up quite a lot once the plant started
5 working.

6 MR. GEORGE ORLE: No, my --

7 MR. CAMERON OSLER: They do vary a
8 little bit, but it's in the context we're talking
9 about it's nickels and dimes as distinct from
10 billions.

11 MR. MATTHEW GHIKAS: Okay. I was --
12 my question was to the effect that that's not the --
13 the total amount that we save, that's the annual
14 amount that would be saved?

15 MR. CAMERON OSLER: That is correct,
16 sir.

17 MR. GEORGE ORLE: Okay. And adding
18 that up for the four (4) years before 2022, and then
19 adding the 198 million -- that 198 million, that's not
20 on top of the one thirty (130), that's the -- the
21 amount that comes in in addition to the one thirty
22 (130) by the year 2022?

23 MR. CAMERON OSLER: It's the
24 equivalent, several years later per year. It's 198
25 million in 2022. It's only 130 million in 2018.

1 MR. GEORGE ORLE: Okay. And again, by
2 my rough calculation over the ten (10) year deferral,
3 I come to a number of approximately \$1,200,000,000 as
4 the total savings to Hydro in the event that the
5 province deferred just the -- the capital and the
6 guarantee fees?

7 MR. CAMERON OSLER: It would seem to
8 be in that order of magnitude. If you wanted to get a
9 number we could do it, subject to check, but...

10 MR. GEORGE ORLE: Okay. And when you
11 took these numbers and dealt with them on a ten (10)
12 year deferral, am I correct at the very end of the --
13 the last line there's an expectation that this would
14 be done with the 3.9 percent rate path?

15 MR. CAMERON OSLER: we used that
16 number simply to show the magnitude of the impact in a
17 get -- in the year 2022 relative to the rates if you
18 had a 3.95 percent rate path. It wasn't advocating
19 any particular rate path it was just saying in the
20 range of the paths that this Board has examined in
21 previous hearings, which is in that range or lower, it
22 is -- it -- the impact is that type of percent.

23 The lower the rate increase, the bigger
24 the percentage impact of -- of this particular
25 measure.

1 MR. GEORGE ORLE: You'd also given in
2 your testimony, your -- your calculation that \$0.17
3 out of each dollar paid by ratepayer is the money that
4 goes back to the provincial government?

5 MR. CAMERON OSLER: That -- I think
6 Mr. Forrest referred to that. And again, it's from
7 the -- I think the KPMG numbers that we cited in our
8 evidence, yes, sir.

9 MR. GEORGE ORLE: Okay. And that
10 number would increase if the water rentals were taken
11 into account, or do they take into account water
12 rentals?

13 MR. CAMERON OSLER: I believe it took
14 into account water rentals for the year in question.

15 MR. GEORGE ORLE: And that \$0.17
16 that's paid out of each dollar by a ratepayer, it --
17 it makes no difference if it's a low income ratepayer,
18 or if it's a high income ratepayer, if their
19 electrical bill is the same they're each paying \$0.17
20 out of that-- each dollar towards the government?

21 MR. CAMERON OSLER: To the extent that
22 their rates reflect these charges, they would be the
23 same for each ratepayer.

24 MR. GEORGE ORLE: Okay. One (1) point
25 in the sub -- in the submissions that were put forward

1 earlier someone on your panel had referred to these as
2 hidden taxes.

3 Would you agree with that
4 characterization of these amounts?

5 MR. CAMERON OSLER: They have certain
6 features that lead people to describe them that way.
7 The money goes to the same source as a tax and people
8 don't really realize that they're there; in that sense
9 they're hidden but I think I'll let Mr. Forrest
10 elaborate.

11 MR. GERALD FORREST: I would just
12 answer the question by saying it is the ratepayer that
13 is compensating the taxpayer by that amount.

14 MR. GEORGE ORLE: And to that extent,
15 it's the ratepayer that's paying a tax that's not
16 being paid by the general taxpayer?

17 MR. GERALD FORREST: That's correct.

18 MR. CAMERON OSLER: And -- and to
19 elaborate, one (1) of the comments that's been made in
20 certain proceedings that I've been around, if the
21 government was seeking to raise revenues, there's
22 fairer ways to do than through electricity bills.

23 MR. GEORGE ORLE: Thank you. Those
24 are all my questions. Thank you, Mr. Chair.

25 THE CHAIRPERSON: Thank you, Mr. Orle.

1 Mr. Gange...?

2

3 CROSS-EXAMINATION BY MR. WILLIAM GANGE:

4 MR. WILLIAM GANGE: Thank you, Mr.
5 Chair. Mr. Osler, thank you very much for the
6 presentation this morning. It was fascinating from my
7 perspective to hear a detailed historical look at --
8 at how the debt equity ratio has -- has developed.

9 Sir, on this point you also mentioned
10 that -- that -- that although Manitoba Hydro structure
11 is unique in the Canadian landscape now, there used to
12 be a number of different entities that were set up in
13 a similar fashion; is that correct?

14 MR. CAMERON OSLER: I did make that
15 remark, sir, yes.

16 MR. WILLIAM GANGE: And -- and how
17 many others were there, that -- that were similar to
18 Manitoba Hydro? And in -- I don't need you to be
19 exact on that.

20 MR. CAMERON OSLER: Well, and I can't
21 be exact without going and doing some checking.

22 But it -- when we were discussing this
23 with my colleagues way back, the point we were making
24 about how it was unique and -- and the reference was
25 made that when we go back and look at the reviews of

1 different Canadian public Crown utilities earlier, in
2 the records of some of the earlier Board Orders that
3 we referred to, they weren't all rate based Utilities.
4 Some of them were certainly customer funded more so
5 than you would see today. And I think that was the
6 point that was being made. I think somebody
7 referenced Newfoundland and maybe -- maybe one or --
8 maybe Ontario as well because I remember -- yes,
9 Ontario certainly wasn't rate based regulated back in
10 that era anyway.

11 So it -- in simple language, the Crowns
12 can either be rate base regulated, like I -- when I'm
13 working in the Yukon, and the Crown put up the money
14 for that investment, or it can be cus -- customer
15 funded, which, in my experience, I learned about
16 mostly in the evolution in Manitoba, but it was there
17 when I was in Ontario, and we just weren't thinking
18 about it in that context.

19 MR. WILLIAM GANGE: When there were
20 other customer-based utilities, did -- did they also
21 have a target with respect to the debt/equity ratio?

22 MR. CAMERON OSLER: In the eras that I
23 was dealing with them, it -- it wasn't something that
24 was front and centre, but it -- it's -- most of these
25 utilities have some targets that relate to debt/equity

1 ratios and everything else because they have financial
2 advisors, and they have similar thought pro --
3 process, like, what should this target be for this
4 utility, the other one?

5 The question is, how much does it
6 affect rates and the regulatory process? That's
7 really where I was coming from.

8 MR. WILLIAM GANGE: Right. Since I've
9 been involved in this, and obviously it's -- it's much
10 less than -- than you, and also less than Mr. Bowman,
11 who's a greybeard as far as -- in -- in comparison to
12 me. But with -- with respect to that, sir, since I've
13 been doing this, the 75/25 target has -- has always
14 played a role in the hearings before the Public
15 Utilities Board. And -- and what I'm interested in is
16 it is that target, 75/25, has it been a common type of
17 -- of measuring stick from -- from your historical
18 perspective?

19 MR. CAMERON OSLER: When you say
20 "common," sir, are you thinking of it in the context
21 of Manitoba, or -- or --

22 MR. WILLIAM GANGE: No. No. I -- I --
23 - what -- what I'm trying to do is to say the other
24 jurisdictions, did they have a 75/25 ratio as well?

25 MR. CAMERON OSLER: The -- the --

1 there is nothing that I'm aware of any magic in 25,
2 okay? They would -- if -- if you look at the evidence
3 in the -- look at the Board's review of the evidence
4 in its various Orders in the period I was referencing,
5 you will see evidence from consulting firms working
6 for Manitoba Hydro as to what the debt/equity ratios
7 were, and the targ -- and some of the targets for
8 different utilities in Canada. So you can find it by
9 reading Board's Orders from that era.

10 But they -- the actual number changed a
11 fair amount, depending on which utility we're talking
12 about and its own history. And I think some of the
13 evidence that we dealt with back then was, what was
14 the basis of change, and why were there differences
15 between the different utilities? And I think I
16 remember a comment that I made a couple of times in
17 different evidence at that time was, whatever the
18 reason is, it -- it doesn't look as though their
19 change in -- in a -- one (1) utility is changing a
20 great deal from you over time, but there are
21 differences that are quite material amongst them. But
22 I don't -- I don't have the numbers or the history in
23 front of me today, and I can't give you much more help
24 than that.

25 MR. WILLIAM GANGE: Okay, thank you.

1 But -- and -- and one (1) of the concerns that we've
2 heard is the -- the bond-rating agencies having
3 concerns. From -- from your -- or can you say from
4 your experience, sir, of looking at these, that --
5 that debt/equity ratio is -- is a magical formula to
6 the rating agencies?

7 MR. CAMERON OSLER: I have no
8 evidence, Mr. Chairman, that the 25 percent ratio is
9 of magic to anyone other than perhaps a few people,
10 but it's certainly not to rating agencies as such.

11 But human beings are capable of all
12 sorts of things, and without messaging, and without
13 constant reinterpretation so people understand its
14 historical and current relevance, I wouldn't be
15 surprised to find somebody surface and, say, Wait a
16 minute, you've had a 25 percent ratio, why didn't you
17 meet it? You know, messaging is important.

18 And secondly, what Mr. Colaiacovo made
19 the point about how unique this was, the more unique
20 something is, the more dangerous it is in dealing with
21 a group of people who are dealing with everybody,
22 rating agencies, or whatever, you know, your messaging
23 and your thought processes may have more difficulty
24 getting through, because they're not used to it, just
25 like somebody with a financial background but doesn't

1 have an interest in Crown utilities or in regulation
2 may not understand what the 25 percent means, and how
3 come we've gone away from it. We have to get back to
4 it quickly.

5 From their background, it's --
6 absolutely makes sense to say that. They just don't
7 have a regulatory background. They don't have a Crown
8 utility background. They don't have a background that
9 I went through with all the history of the rates. So
10 you have to continually re-assert, review, and re-
11 explain if you want people to understand.

12 MR. WILLIAM GANGE: Okay. Thank you,
13 sir. Mr. Bowman, if I could look at page 49 of your
14 prefiled testimony, MIPUG number 13. And at about
15 line 22, sir, you -- you are discussing the -- the
16 unique circumstances of ratepayer groups whose
17 alternative uses of funds come at a much higher cost
18 than Hydro's rate to borrow.

19 And -- and you -- and you give a couple
20 of examples, there, sir, and one (1) of them is the
21 industries who have investment opportunities at a
22 higher internal rate of return than Hydro by borrowing
23 costs, correct, sir?

24 MR. CAMERON OSLER: Yes.

25 MR. WILLIAM GANGE: And -- and your

1 concern there is that -- that this -- the -- the
2 increased rate may be uneconomic to those -- those
3 industries, correct, sir?

4 MR. PATRICK BOWMAN: Well, I think
5 it's broader than that.

6 MR. WILLIAM GANGE: Sure, you could --
7 and you can broaden it. I'm -- I'm not trying to box
8 you in, here.

9 MR. PATRICK BOWMAN: The -- the point
10 you raised is one (1) that was dealt with in this
11 submission. It was further comments around Hydro's
12 rebuttal, but follows on an approach, a method that
13 people spent some time on it at NFAT, where we were in
14 more of an investment thinking than a -- than a rate
15 scenario analysis. But the idea is that if the
16 promise of a development path, or the promise of a
17 rate increase is pay more now for your own benefit
18 later, some people's minds go to, Well, you know, what
19 kind of return my getting for this promise?

20 And Hydro did that type of analysis in
21 the -- in the NFAT, which we disagreed with their
22 approach. They used a stunningly low discount rate, I
23 think below both Mr. Colaiacovo on behalf of the Board
24 at the time, and -- and my own evidence suggests that
25 that was -- that was not reasonable, because the

1 customer is committing actual money to this concept.
2 You've got this development plan, or this -- this
3 higher rate increase in exchange for future rate
4 decreases, and, you know, time value of money is a
5 simple concept, and we can -- we can take a look at
6 it.

7 But when you're doing so, you need to
8 think about which money you're talking about, and what
9 is the value of it over time. And you get into this
10 issue of, do different customers have a lot more value
11 for their funds as an alternative to socking away in
12 Hydro? And I -- I think the -- the point there, which
13 I think is echoed in Boston Consulting's material, is
14 with certain groups like industrials who have an
15 alternative investment awaiting them somewhere else,
16 or, you know, individuals, residences who are carrying
17 high debt, or have other household living needs, their
18 alternative use of funds has a pretty attractive
19 option, and socking them away in Hydro for a promise
20 of a -- a rate decrease eleven (11) years in -- in the
21 future is -- is a -- is probably a pretty poor use of
22 those funds.

23 MR. WILLIAM GANGE: And I -- I take
24 it, sir, just expanding upon that -- that last point
25 about residential customers, that would apply

1 especially so, would it not, to those people that fall
2 within the energy poor category?

3 MR. PATRICK BOWMAN: Yes.

4 MR. WILLIAM GANGE: Thank you. If --
5 if we could look at page 28 of today's presentation.
6 The -- the -- now, just to -- to refresh my memory, or
7 my understanding, the dotted blue line represents
8 what, sir?

9 MR. PATRICK BOWMAN: Well, to be
10 clear, it's -- it's Hydro slide that I've pasted in.
11 But the dotted blue line represents the -- I'm just
12 trying to look at the axes here to give you -- the --
13 the dotted blue line should be read on the right-hand
14 axis, which are the cumulative rate increases, and
15 that's what it represents is how -- what -- what are
16 the -- starting in the -- first, we're in the graph
17 with this 2018, what are the cumulative rate increases
18 faced by the customer in that year?

19 MR. WILLIAM GANGE: And -- and when
20 you commented in your direct testimony on this, you --
21 you indicated that -- that the sharp decline in 2027
22 to 2028 is a potential, I think you said 25 percent
23 rate decrease at that point?

24 MR. PATRICK BOWMAN: I believe I said
25 twenty-five (25). I think the scenario is twenty-

1 three (23), if I'm not mistaken, but it's -- it's a
2 series of years. One (1) is nineteen (19). One (1)
3 is three (3) and a bit, but I think it adds up to
4 somewhere between twenty-three (23) and twenty-five
5 (25).

6 MR. WILLIAM GANGE: Your point, as I
7 read your evidence and -- and listen to you today is
8 that -- that suggestion of a rate decrease is -- is
9 somewhat tenuous, and it may never occur. Is that
10 correct?

11 MR. MATTHEW GHIKAS: Mr. Chairman, I'm
12 going to object again. That was about as softball as
13 you get.

14 MR. WILLIAM GANGE: No -- no. But I -
15 - Mr. Chair, in response, I'm going to move on from
16 that. I'm not -- I'm not trying to -- I -- I'm just
17 trying to set the stage for the evidence that's been
18 given, or -- and -- and the question that I'm about to
19 ask. I'm not attempting to elicit friendly testimony
20 here at all.

21

22 (BRIEF PAUSE)

23

24 MR. PATRICK BOWMAN: Perhaps it's best
25 repeat the question for the --

1 CONTINUED BY MR. WILLIAM GANGE:

2 MR. WILLIAM GANGE: Thanks. You --
3 the -- the evidence that you gave in your prefiled
4 testimony and the evidence that you've given today is
5 that although this -- this chart shows a potential
6 rate decrease of 25 percent, you indicated that --
7 that may not occur?

8 MR. PATRICK BOWMAN: Well, I was --
9 yes, and I was also echoing the cross-examination of
10 Hydro, where they indicated that may not occur. They
11 then actually indicated that would probably not be our
12 plan, just like they indicated staying up would
13 probably not be their plan. So I'm just -- I -- I
14 think it's unlikely, but I don't think I'm on my own
15 on that.

16 MR. WILLIAM GANGE: Okay. Thank you.
17 With resp -- with respect to Hydro's plan to increase
18 reserves during this time period prior to 2027, so
19 that's what I'm focusing on, during that time period,
20 sir, would you agree with me that -- that the
21 likelihood is that the costs of solar electricity and
22 wind powered electricity is likely to decr -- decrease
23 on a regular basis during that time period?

24 MR. PATRICK BOWMAN: Mr. Gange, all
25 the evidence in the -- in the trade literature in the

1 marketplace says that that is the -- the general
2 direction of manufacturing trends on solar. Whether
3 it actually decreases in practice may depend on other
4 things like policy choices, but on the -- on the
5 manufacturing side, there is considerable discussion
6 about the -- the trends on the cost side.

7 MR. WILLIAM GANGE: Which -- which
8 just follow that -- that the trend is downward?

9 MR. PATRICK BOWMAN: Yes.

10 MR. WILLIAM GANGE: Okay. And -- and
11 so -- so part of my memory of -- of these hearings is
12 a -- a few hearings, ago evidence was given that --
13 that it was unlikely that the cost of solar was going
14 to be competitive with hydropower, and -- and yet, we
15 see that -- that in fact, the -- the cost of solar
16 energy has decreased quite substantially and rapidly
17 during this last seven (7) or eight (8) years,
18 correct, Mr. Bowman?

19 MR. PATRICK BOWMAN: Well -- well, it
20 has, but I think you want to be careful comparing
21 different types of power. Hyd -- hydraulic generation
22 has characteristics that are significantly different
23 than -- than wind or solar in that it's -- things like
24 it's -- its firmness, it's -- the life of the
25 facilities, and things like that. But I think that's

1 -- that's very important to the overall context.

2 But there's no doubt that's per
3 kilowatt hour for the type of kilowatt hour generated
4 by solar, the -- the cost has come down, and
5 expectations are, at a manufacturing level, that it
6 will continue to come down.

7 MR. WILLIAM GANGE: And so as -- as an
8 example, what you just referred to, wind is not
9 dispatchable, correct, sir?

10 MR. PATRICK BOWMAN: That's the term
11 that's often used, yes.

12 MR. WILLIAM GANGE: And -- and so that
13 wind, for instance, requires backup power or storage,
14 which -- which hydroelectric power doesn't require?

15 MR. PATRICK BOWMAN: Well,
16 hydroelectric power has a different type of -- of
17 storage, but -- but I -- I can take your -- your
18 comment for the purposes of this -- of -- of moving
19 forward.

20 MR. WILLIAM GANGE: Sure. And so
21 would you agree with me, sir, that the other
22 development that -- that is going to have a -- a
23 potential quite significant impact upon all of these
24 discussions is the development of -- of -- the -- the
25 development of -- of properly-functioning batteries?

1 MR. PATRICK BOWMAN: Stor -- storage
2 is the -- is the -- the big game, Mr. Gange, in terms
3 of transformation of the marketplace, if it was able
4 to be done on a -- on a -- a cost competitive basis.

5 MR. WILLIAM GANGE: And -- and would
6 you agree with me, sir, that -- that potentially, wind
7 and solar, plus very effective batteries, there is a
8 potential in the future of that undercutting Hydro
9 rates?

10 MR. PATRICK BOWMAN: Well, I guess
11 you'll have to clarify what you mean by rates. You
12 usually won't --

13 MR. WILLIAM GANGE: I'm sorry, the
14 cost -- the cost of production of hydropower.

15 MR. PATRICK BOWMAN: Okay. So again,
16 at a -- at a cost of production level, wind, and
17 solar, and batteries that are able to function as a
18 complement, if your suggestion is they could be a -- a
19 valuable resource for consideration in the 2030s, as
20 we're considering whatever next plant to build for
21 Manitoba Hydro, I would say that -- that ought to be
22 entirely within a -- a part of an intricate resource
23 plan, and I wouldn't rule out that -- that any -- any
24 given option might rise head and shoulders above the
25 others at that time.

1 MR. WILLIAM GANGE: And -- and sir,
2 would you agree with me that -- that one (1) of the
3 concerns that -- that any electrical utility has now
4 and in the foreseeable future is grid defection by
5 customers who find self-generation cheaper?

6 MR. PATRICK BOWMAN: Mr. Gange, it's -
7 - it's definitely a -- a concept that can be -- that
8 is talked about, and -- and can be talked about in
9 terms of places. I'm working down South, for example,
10 where they have very large subsidies for solar, and
11 utilities are -- are pushed to have certain renewable,
12 and feed-in tariffs, and the like.

13 And it's -- it's leading to all sorts
14 of other problems on the system, but there is a
15 significant concern that -- that some customers at a
16 small scale put their own solar on the roof, for
17 example, in Arizona, where we're doing some work, drop
18 -- drop their load, continue to have a wire serving
19 their house, continue to have the backup of a -- of a
20 plant, but buy very little power to actually pay for
21 all that stuff, and lea -- leave the bill for their
22 neighbours.

23 And it -- it's -- it is -- that causes
24 big sort of public policy level issues that -- that a
25 lot of utilities down South are trying to work

1 through. It also causes resource planning issues of,
2 you know, shifting the -- the load on the -- on the
3 bulk power system that utilities are trying to work
4 through, and I think it -- it's possible if they don't
5 solve that, it could get -- could become bigger issues
6 if -- if it's wholly dropped.

7 I don't -- I -- I don't -- my mind
8 doesn't automatically go to that in -- in Manitoba,
9 where we have a low variable cost, and where we're
10 not, at this point, at least, putting in place the
11 kind of -- the kind of subsidies for customer-sited
12 solar that -- that they are down in -- down in the
13 South. And -- and also, where the rates are -- are
14 much, much higher than here.

15 MR. WILLIAM GANGE: But -- but at
16 present, sir, is it -- is it -- would you agree with
17 me that -- that one (1) of the potential problems that
18 Manitoba Hydro faces is the interest cost that --
19 that's built into the rates?

20 MR. PATRICK BOWMAN: Well, interest is
21 a substantial component of the rates.

22 MR. WILLIAM GANGE: Is it therefore
23 possible that if interest -- or debt levels, pardon
24 me, are reduced early on, as Manitoba Hydro proposes,
25 that Manitoba Hydro would be in a better position to

1 compete against these alternative technologies?

2 MR. PATRICK BOWMAN: You -- you know,
3 Mr. Gange, I think in the range of -- of the type of
4 hypotheticals we're talking about, the idea that we
5 better hurry up and pay for 25 percent of Keeyask over
6 four (4) or five (5) years of service, and may be
7 rushed to pay off another 50 percent of it over the
8 next ten (10) years of service because we might find
9 that -- that it doesn't have value in the future, I
10 think those are the types of issues that -- that
11 people assess at an NFAT, that you would continue to
12 look at.

13 I -- I don't think, based on the
14 evidence we have here, and based on the evidence from
15 a whole bunch of utilities who are -- who are -- who
16 have rates somewhere between where we are and where
17 the utilities are like California and Arizona, who are
18 -- who are starting to run into a -- a bit of these
19 problems, I -- I don't -- I don't think that those are
20 -- are items that would -- one would put looming on
21 the horizon. And that -- and I don't see it in
22 Hydro's risk assessment documents, either.

23 MR. WILLIAM GANGE: And -- and Mr.
24 Bowman, just in terms of that answer about the rate
25 level that you just referred to, Arizona, or

1 California, can -- can you give me a number? What is
2 their rate level in terms of a percentage of the
3 Manitoba rate? Are you able to tell me that?

4 MR. PATRICK BOWMAN: I don't have that
5 at -- at hand. I would have to also think about the
6 fact that it's US dollars. But in the -- on the wire
7 side, and I -- I'll emphasize, this really gets raised
8 there as an issue on the wire side, that if you're --
9 if you're offsetting generation, most of these
10 utilities have an alternative for -- for, you know,
11 selling their generation elsewhere, or -- or
12 contracting in a different way for generation or
13 saving fuel.

14 It's really the recovering the cost of
15 the wires that is the -- the biggest deal. And -- and
16 the transmission and -- and distribution component of
17 the rate there is -- is, I'm going to say, is actually
18 -- it -- just -- just the transmission/distribution
19 component is larger than the entire rate would be
20 Manitoba, just to give you an -- an idea. But I -- I
21 would have to go and -- and dig up the numbers.

22 MR. WILLIAM GANGE: That's okay. I --
23 I can find those numbers just as -- well, not just as
24 easily as you, but I can find them. Thank you. Those
25 are my questions. Thank you, Mr. Chair.

1 THE CHAIRPERSON: Thank you, Mr.
2 Gange. Mr. Monnin...?

3

4 CROSS-EXAMINATION BY MR. CHRISTIAN MONNIN:

5 MR. CHRISTIAN MONNIN: Thank you, Mr.
6 Chair, members of the Board, members of the panel.

7 Mr. Osler and Mr. Forrest, I'm to your
8 left in the back row over here. My name is Christian
9 Monnin, Chris Monnin. I am counsel for General
10 Service Small and General Service Medium customer
11 class in addition to Keystone Agriculture Producers.

12 I'd like to start some questions with
13 regards to O&A. And at slide 20 of your presentation
14 today -- pardon me, slide 16. Keep that for there,
15 but one (1) of the recommendations that is being made
16 is to fully pursue the O&A expense reductions. And --
17 and Mr. Bowman, in your prefiled testimony, you state
18 that:

19 "Hydro should be encouraged to fully
20 pursue O&A expense reductions,
21 including the -- the plan to achieve
22 levels at or below earlier levels,
23 2011/2012 or before, plus
24 inflation."

25 And Mr. Forrest, during your

1 presentation today, and looking at slide 16, on the --
2 the second bullet under consistent PUB concern about
3 moral hazards, the domestic customer rates, where it
4 stated:

5 "Do not want higher rates to reduce
6 Hydro incentive for efficient
7 operation."

8 I believe -- I took some notes, and I
9 believe you -- your evidence was that staffing -- the
10 staffing complement is -- is still high,
11 notwithstanding the recent cuts that were made.

12 Is that -- do I recall correct --
13 correctly?

14 MR. GERALD FORREST: Correct.

15 MR. CHRISTIAN MONNIN: And I also
16 understand MIPUG's evidence in -- in Mr. Bowman's
17 prefiled testimony to be that due to the significant
18 scale of changes having recently been imposed, much of
19 the normal details filed in support of O&A forecast is
20 unavailable. Is that fair?

21 MR. PATRICK BOWMAN: Yes.

22 MR. CHRISTIAN MONNIN: So when MIPUG
23 is suggesting that these -- this endeavour ought to be
24 supported, what does it mean by that? How would that
25 look, and how would this Board support that -- those

1 endeavours?

2 MR. PATRICK BOWMAN: Mr. Monnin, my
3 suggestion is that the Board remain vigilant, that the
4 materials Hydro is expected to file and update the
5 board on, and the expectations of the board coming
6 back for its next GRA should make clear that materials
7 detailing the O&M plans and what's been able to be
8 achieved are -- are laid out.

9 The types of information is not
10 available today because they're in the midst of -- of
11 this type of restructuring, which, as I noted, I don't
12 fault Hydro for at all. But at some point, those
13 changes need to be built into budgets, and that
14 assessments need to be made by looking at those
15 budgets in the context of -- of relevant benchmarks,
16 which both can link to Hydro in the past, or to -- to
17 other utilities' performance.

18 I -- I made some of the comments in
19 light of -- and I believe the reference is in there,
20 that in light of the fact that there was Board Orders
21 year after year through the 2000s that said, you know,
22 This is -- this is -- you get -- reduce your O&A,
23 reduce your O&A, reduce your O&A. It's not like
24 there's one (1) -- I believe it's in the 2012 Order,
25 where it says, Hydro has added nine hundred (900)

1 people in the time that it's -- it's gotten no
2 difference in its set of functions. You know -- you
3 know -- I -- I don't know if that's a -- a bit of the
4 rationale for the reduction of nine hundred (900)
5 people now is to sort of back out the increases that
6 occurred over that period. But certainly, if you go
7 back to the period they were talking about, to the
8 other -- I believe that was -- that was the 2004 to
9 2011 period, if I'm not mistaken, 2010.

10 Even when you go back to the start of
11 that period, 2004, there were comments in a Board
12 Order about -- about keeping O&A under control. So
13 the -- I -- I think the -- the idea is the
14 recommendation should -- should encourage Hydro to
15 follow through, and should encourage Hydro to file the
16 data that this Board can then assess how that turned
17 out, and whether -- whether further pressure is
18 required.

19 MR. CHRISTIAN MONNIN: And -- and
20 would anyone else on the panel care to add to that?

21 MR. GERALD FORREST: Treading where
22 angels fear to tread. The unfortunate part in Canada,
23 every utility is structured differently. It is --
24 some have hydraulic generation with a mix of gas.
25 Some have coal with a mixture of gas and water, and --

1 and there's a variety of different structures.

2 The second thing is, geographically,
3 across Canada, we have centres like Toronto, an area
4 that is high concentration of population in a small
5 geographic area, whereas in other parts of the country
6 like Manitoba and Saskatchewan, where we used to --
7 and I say "used to" -- have probably one (1) or two
8 (2) residents or farms on a particular section of
9 land, now we have maybe one (1) on ten (10) sections
10 of land. So the cost of service to service the
11 customer in, say, Manitoba and Saskatchewan are quite
12 a bit more difficult than it is in some of urb --
13 other urban communities.

14 But overall, Patrick is correct, that -
15 - that there needs to be, in my view, inside the
16 organization today, business optimization programming
17 where you look at the most effective way to deliver a
18 service at the least possible cost. At the same time,
19 don't sacrifice safety and reliability in your
20 organization.

21 MR. CHRISTIAN MONNIN: Thank you, Mr.
22 Forrest. Kristen, if you could please go to MIPUG-14,
23 page 5 of 2 (sic). I hope that I'm driving everyone
24 to the correct page -- 5-2. Yes. Under this bullet
25 number 6, and this -- directed to Mr. Osler and Mr.

1 Forrest, lines 14 to 17. When you're going through
2 the -- the history of -- of the rate design, it speaks
3 to, "The Board recognized" -- and this is a '94 Hydro
4 rate review:

5 "The Board recognized that the rate
6 increases as approved may not be
7 sufficient themselves to achieve
8 this target by March 31st, 1997, and
9 that Hydro must achieve further
10 internal efficiencies,
11 organizational improvements, and
12 cost reductions to achieve this
13 target by that date."

14 My takeaway from that is that a certain
15 ask is being made by the Utility for a rate increase,
16 and the Board said, You -- you're going to have to
17 find the savings internally in order to get to the
18 numbers you want to get to.

19 Is that a fair layperson way to look at
20 it?

21 MR. GERALD FORREST: Unfortunately, I
22 signed that Order, so yes, that is correct.

23 MR. CHRISTIAN MONNIN: And is that
24 something in your view that this Board in these
25 proceedings could apply to the current circumstances?

1 MR. GERALD FORREST: Certainly, it's
2 one (1) of the considerations the Board should
3 certainly examine.

4 MR. CHRISTIAN MONNIN: Thank you. I -
5 - I'd like to ask you some questions. I believe these
6 would primarily be answered by Mr. Osler or Mr.
7 Forrest. It deals with the race to the equity
8 thickness of -- of 25 percent. And this -- this would
9 be page 3-1 of -- of MIPUG-14, again.

10 And starting at line 6, this -- this
11 evidence speaks to Hydro's new rate approach, raises a
12 range of obvio -- obvious and material concerns
13 related to the sharp increase now proposed in the
14 interim rates. And -- and in particular, item number
15 3 is a concern raised with regulatory pricing
16 principles related to rate stability and
17 intergenerational fairness. And I would like -- I
18 would like you just to take your time to read those --
19 that -- line 17 through 24, please.

20

21 (BRIEF PAUSE)

22

23 MR. CHRISTIAN MONNIN: Please let me
24 know when -- when you've had the opportunity to -- to
25 finish them.

1 (BRIEF PAUSE)

2

3 MR. CAMERON OSLER: Okay.

4 MR. CHRISTIAN MONNIN: And my -- my
5 appreciation of this is that it talks to essentially
6 the -- the fairness to the ratepayers -- today's
7 ratepayers of -- of the assets being made in this rate
8 application, but it's also my understanding it would
9 be the proposed rates going forward.

10 And I'd like to know your view --
11 keeping this in mind, I'd like to know your view on --
12 on a piece of evidence that was given by Manitoba
13 Hydro, in particular, Mr. -- Mr. McCallum, who happens
14 to be here today. This is at page 260, please, of --
15 of the transcript, lines 10 through 18.

16 And this is the section that reads:

17 "Finally, we'll hear this isn't fair
18 to the current generation of
19 ratepayers. Well, it most certainly
20 isn't fair to park an overinflated
21 and unsustainable debt burden on the
22 next generation. Moreover, it's
23 clear that there's -- that rates
24 haven't kept up with the cost of the
25 system, and effectively no material

1 contribution to reserves have been
2 made in almost ten (10) years, so if
3 anyone has been treated unfairly, it
4 has not been today's ratepayer."

5 And -- and mindful of -- of My Friend,
6 Mr. Ghikas's objections about softball questions, I'm
7 just curious, what would be your view with regards to
8 this position that's been advocated by Hydro in its
9 evidence?

10 MR. MATTHEW GHIKAS: Well, Mr.
11 Chairman, I will jump in, because we can be mindful of
12 that, because that was another softball, and I think
13 My Friend appreciates that.

14 MR. CHRISTIAN MONNIN: Well perhaps --

15 THE CHAIRPERSON: Well, you know what,
16 I'm going to -- I'm going to allow it, Mr. Ghikas. We
17 -- we had the Business Council of Manitoba that was
18 here, and no one objected, but I was going to
19 interject. We -- we have a wide -- wide latitude of
20 the questions. We'll determine whether there's any
21 weight shouldn't be given to it or not. I'm very
22 mindful in terms of the question.

23 I mean, he's asking a state -- he's
24 asking a comment on a statement that's already in the
25 record, so I'm going to allow it.

1 MR. MATTHEW GHIKAS: Thank you.

2

3 CONTINUED BY MR. CHRISTIAN MONNIN:

4 MR. CHRISTIAN MONNIN: Thank you, Mr.
5 Chair.

6 MR. CAMERON OSLER: I had read I think
7 this part of the evidence that had -- given earlier.
8 In this particular paragraph that you've referenced
9 for comment, overall, I don't think that the comments
10 that were made by the Hydro's officer were very
11 helpful to the types of issues that a regulatory body
12 has to come to grips with. They reflect more somebody
13 looking at the world from another angle entirely, and
14 being puzzled about how it all adds up.

15 So if I could, the comments that we're
16 making, that you referenced first from MH -- from our
17 Exhibit 14, number 3 on page 3-1 is taking the normal
18 perspective from a regulatory point of view of an
19 issue that people grapple with in various
20 jurisdictions, and the issue becomes much more
21 important when you're dealing with a jurisdiction
22 where most of your assets are capital-intensive, long-
23 lived, and don't vary a great deal, depending on the
24 actual generation that you make in a given year, such
25 as this one with Hydro.

1 When you haven't asked that the last
2 hundred years, what is the fair way to distribute the
3 rates for those costs over that hundred years? Many
4 regulators and others have grappled with this issue in
5 many jurisdictions. There have been different
6 approaches that have been taken. But you can't put
7 your head in the sand and ignore the issue, is the
8 first point, and secondly, MIPUG's position and
9 evidence that I've given over the years have always
10 been focused on, these are long-term assets. We want
11 to see stable and predictable rates that reflect the
12 lives of these assets and do not get unnecessarily
13 deviated in the short run by other issues.

14 Now, if we have a crisis because assets
15 run into problems, or because we have a -- a very
16 extended drought that pushes us to the limit, the
17 regular review process that we recommend is intended
18 to protect you against that, and to tell the financial
19 community that we have in place a process by an
20 independent regulatory body rather than a cabinet
21 that's making decisions based on politics, that's
22 based on principles, and it does have the ability to
23 review this regularly, so you do not need to worry
24 that we are making a decision today that we are going
25 to live with for absolute certainty for the next ten

1 (10) or twenty (20) years without any chance to change
2 it, and we better get it absolutely right. So that's
3 what this -- this point is making.

4 Whether of the rates for a capital-
5 intensive asset should be flat over the life of the
6 asset, climbing over the life of the asset, or
7 declining over the life of the asset is a material
8 issue in various jurisdictions. If I have a rate-
9 based regulated utility, such as in Yukon, which is
10 Crown-owned, but has a rate base, and -- and
11 everything -- we build a -- a capital-intensive asset,
12 a Hydro asset, the rates are going to be higher in the
13 first year, and they're going to decline with each
14 year of -- of reductions in the -- due to
15 depreciation.

16 And people that work in that
17 jurisdiction, private or public sector, will say, How
18 many years before we cross over, before the point
19 where we're not charging ratepayers more, we're
20 actually getting the benefits? And frankly, in that
21 type of a context with a sensitive interaction between
22 the government and the Utility, you might even come up
23 with methods of handling your debt with the government
24 such that you don't have to worry about that question,
25 and I'll leave it at that, because the government's

1 interested in ratepayers, but also interested in
2 taking the risk and -- and making sure the rates climb
3 over time.

4 There have been rates historically.
5 Northern Canada Power Commission had them at one (1)
6 point where the depreciation -- where the depreciation
7 climbed over time. Manitoba had a deal for the Bipole
8 -- original Bipole with Canada, where the cost to
9 Manitoba from that Bipole that was leased to it by
10 Canada, climbed over time. You can -- you can arrange
11 things differently. IPPs, so to get contracts with
12 utilities to do an asset that the Utility, twenty (20)
13 years ago would have done itself often have a rate
14 structure -- a -- a pricing structure with the Utility
15 where the rate climbs with inflation over time, even
16 though it may be a capital-intensive wind generator or
17 something else.

18 There are various ways to do it, but it
19 should be based on the assets, the life of the assets,
20 and a consistent approach to pricing of similar assets
21 in that jurisdiction, and not something that you
22 change capriciously, or you don't pay attention to.
23 That's the point there.

24 The point of the other per -- the
25 evidence you referred me to is -- I took it to be

1 musings of someone looking at it saying, My goodness,
2 the costs go up.

3 Yes, they do. Capital assets get to be
4 more expensive. The only asset that I've seen in my
5 lifetime in the -- of a generation nature in this
6 jurisdiction where everybody bragged about the cost
7 coming down was Limestone. A lot of the other ones
8 that had similar problems with geotechnical or other
9 things, and the costs have gone up during the process
10 of building them.

11 But we're talking about regulation of a
12 Crown utility. We're talking about cost-based
13 regulation. We might get into marginal pricing for
14 certain ways to incent people, but we would still have
15 a cost-based regulation. We're recovering enough
16 money from the ratepayers at a given point in time to
17 cover the costs plus reserves. Musings about marginal
18 cost pricing, how things go up over time, doesn't help
19 a great deal to that basic requirement legislatively
20 mandated on this Board.

21 MR. PATRICK BOWMAN: Mr. Monnin, if it
22 helps to add, one (1) of the things I made sure I -- I
23 done my homework on was the capital coverage target,
24 which is talked about nowadays in this hearing. And I
25 -- I did manage to confirm, it's -- the application of

1 that target, and -- and one (1) of the things in -- in
2 the context of that was appearing in 2004, where
3 Hydro's -- Ms. Lyn Wray, who was one (1) of Hydro's
4 skilled long-term utility financial people, was -- was
5 testifying, and this is in the context of -- you
6 remember the capital coverage target was about whether
7 the internally-generated cash is paying for the
8 assets, much like the CFO to Capex ratio we're talking
9 about now, with some tweaks.

10 And Mr. Bob Peters was cross-examining
11 her and saying, So why do you leave out major
12 generation? She says, Well, basically all of our --
13 our -- virtually all capital's in it, except for new -
14 - major new generation and transmission, and it should
15 count towards our target of one (1), which was the
16 target at that time, not one point two (1.2) like
17 today. But she says, The reason for that is that
18 obviously, that would drive the target down, and it
19 would be unfair in our view to try to seek rate
20 increases, for example, to get it back to one (1)
21 when, in essence, you're investing in a long-term
22 asset with long-term benefits.

23 And I think summarized really well the
24 way that a financial person who -- who would spend
25 their time in a regulated utility, and understanding

1 how a Crown worked looked at the targets and how you
2 deal with handling a -- a capital expansion. And I
3 think it -- it stands in distinction to the type of --
4 of quotes you put to us.

5 THE CHAIRPERSON: I hate to be
6 miserable, but at the beginning of the -- of this
7 entire process, I asked if questions and answers could
8 be clear and concise. So if we could sort of move in
9 that direction, Mr. Monnin?

10

11 CONTINUED BY MR. CHRISTIAN MONNIN:

12 MR. CHRISTIAN MONNIN: Your comments
13 are well-taken, Mr. Chair. I'll move on to questions
14 with regards to the zone of reasonableness.

15 Mr. Bowman, I believe -- well, if we
16 can go to 712, page 712 of your prefiled testimony, in
17 particular, lines 5 to 7, and I believe your -- your
18 evidence earlier today, Mr. Bowman, was that you
19 recognize that in addition to your clients, the GSL
20 classes, there are others who were paying above the
21 zone of reasonableness. That's fair to say?

22 MR. PATRICK BOWMAN: Yes. As a matter
23 of fact, on page 73, I showed that the -- the highest
24 is the -- the GS small non-demand.

25 MR. CHRISTIAN MONNIN: That's right.

1 And -- and at page -- or slide 45 of your -- your
2 presentation deck today, on the second bullet, or the
3 second main bullet, by GSL 30 to 100 kV, GSL greater
4 than 100 kV classes have been well above the zone of
5 reasonableness of 95/105 for a very long time with
6 perpetual claims adjustments not appropriate since COS
7 study was in flux and needed review.

8 Is it fair to say this would apply to
9 those other classes that are outside the zone of
10 reasonableness?

11 MR. PATRICK BOWMAN: Mr. Monnin, it --
12 it would apply. I'm not sure that any of them have
13 been quite as -- far outside quite as long, maybe
14 further outside now, but -- but certainly, it would be
15 the same comment for any class that has -- has been --
16 would be outside the zone of reasonableness.

17 MR. CHRISTIAN MONNIN: And I'd like to
18 go back to page 3-1 of MIPUG-14 and just ask some
19 questions with regards to bullet number 4, which
20 pertains to adverse impacts on customers and the
21 Manitoba economy. And I won't belabour this point,
22 but I'll give you the opportunity to read those lines
23 25 through 33.

24

25

(BRIEF PAUSE)

1 MR. CHRISTIAN MONNIN: And you would
2 agree that members of the -- of the -- the MIPUG
3 panel, you would agree with me that in -- in the
4 evidence that's been filed, MIPUG has stated on
5 several occasions that, for example, at Mr. Bowman --
6 and I apologize for making everyone bounce around --
7 Mr. Bowman's prefiled testimony, page 4-10 lines 25
8 through 29, the first full sentence:

9 "The Hydro filing provides no
10 apparent estimate of the econom --
11 economic impact on Manitoba of
12 raising rates outside the lim --
13 limited concept of inc --
14 incremental elasticity, how much
15 less power might be used on an
16 incremental basis due to higher rate
17 increases due to customers' price
18 response."

19 And again, at -- at page 4-11, lines 6
20 through 8, along with potential industrial impacts
21 related to risk of shutdown, on job loss, there's no
22 information as is provided by Hydro regarding the
23 basic broader economic -- broader economy -- economy
24 impacts of the higher revenues being charged by Hydro
25 solely for the purpose of Hydro's own debt reduction.

1 And -- and once again, at page 4-13, I
2 said I wouldn't belabour the point, but clearly I am
3 by underscoring again at lines 23 to 24, again, a
4 comment about the limited information regarding the
5 potential adverse economic impact.

6 And -- and so my -- my question is --
7 is going: Would you agree with me that based on these
8 comments, and -- and the underscoring of the fact that
9 there is limited information, the economic impacts --
10 so based on this, would -- would you agree with me
11 that it would be of benefit to these proceedings, and
12 of particular benefit to this Board if it could review
13 a properly conducted macroeconomic analysis which
14 addresses the full impacts of the projected rate
15 increases?

16 MR. PATRICK BOWMAN: Well, Mr. Monnin,
17 I -- I think my best answer is I -- I hope not. And -
18 - and I say that because I have never had to go
19 through this type of process to assess an applicant's
20 application before, because I've never opened an
21 application that says we're going to raise rates to a
22 significantly different degree than has ever been done
23 in relation to inflation, and it's for the benefit of
24 the government and the benefit of ratepayers, and --
25 but then not say another word about how it's going to

1 affect the -- the economy, which would be, I would
2 think, supporting points about that basic case.

3 I would rather not have to assess that
4 basic case. It seems to me that there is plenty of
5 room to deal with the cost pressures in the IFF in a
6 normal, regulatory context, the way I would in any
7 jurisdiction, and -- and in those jurisdictions, I
8 wouldn't -- I wouldn't begin, you know, how many jobs
9 are going to be lost.

10 But if someone says the credit-rating
11 agencies, we rely on the government's credit rating,
12 and we need to help fix it. And in fact, the
13 government's credit rating is based on things like
14 GDP, but they don't make a comment about how them
15 fixing it are going to affect the GDP. It -- there's
16 -- there's a link missing. I -- I -- you have no idea
17 how much I would prefer not to have to get into
18 assessing the -- the assertions made in terms of -- of
19 completing that link. But I think it's a -- it's a
20 significant -- it's a significant hole in -- in the
21 material provided.

22 MR. CHRISTIAN MONNIN: So when we say
23 -- say that, to summarize that answer is that you hope
24 not, but it -- it -- there's -- there's the
25 possibility of a benefit for -- for proceeding with

1 such a macroeconomic analysis?

2 MR. PATRICK BOWMAN: I -- I'm
3 suggesting that if you're going to impose rate changes
4 that are -- that are many multiples of anything that
5 people have experienced here before, and your
6 assertion is that those -- that is being done for the
7 -- for -- to achieve certain benefits, I think you're
8 -- the obligations on you to support that those
9 benefits would arise and that they wouldn't be
10 undermined by your very actions.

11 MR. CHRISTIAN MONNIN: Mr. Forrest,
12 you're -- you're looking at me. Did you want to -- to
13 add to that?

14 Mr. Chair, this -- I have one (1) last
15 question, and -- and I do proceed with some
16 trepidation, knowing what My Friend, Mr. Ghikas's
17 previous objections, and -- and I will put that
18 question forward is Mr. Bowman, why are you so
19 popular? You don't need to answer that. Thank you.

20 THE CHAIRPERSON: Thank you, Mr.
21 Monnin. You know, I've never had that question asked
22 of me. We'll adjourn for fifteen (15) minutes. Thank
23 you.

24

25 --- Upon recessing at 2:40 p.m.

1 --- Upon resuming at 3:04 p.m.

2

3 RULING

4 THE CHAIRPERSON: Before you begin
5 your cross-examination, Mr. Ghikas, I'd like to issue
6 a ruling on Board direction related to legal
7 arguments.

8 On Thursday, January 18th, 2018, at
9 transcript page 5482, counsel for the Consumers
10 Coalition advised the Board and all parties that the
11 Consumers Coalition has identified potential legal
12 issues that may have arisen in the course of the
13 proceedings, and that if any party intends to present
14 legal arguments in their closing submission, that
15 party should provide notice of such intent.

16 Counsel for Consumers Coalition also
17 advised the Board that he would communicate with all
18 counsel for all parties regarding its request that
19 notice of legal argument be provided by any party
20 intending to raise legal arguments in closing
21 submissions.

22 On Tuesday, January 23rd, 2018 at
23 transcript page 5849, counsel for Manitoba Hydro
24 recommended that the Board provide direction to all
25 parties that they provide written notice to all

1 parties and the Board as to any legal arguments that
2 they anticipate raising in closing submissions.

3 Counsel for Manitoba Hydro went further
4 to suggest that if any constitutional arguments are
5 intended by any party, sufficient detail of such
6 argument should be provided to allow others to
7 understand the whole argument.

8 While Manitoba Hydro counsel stated
9 that she was getting ahead of herself, she also
10 indicated concern that if any party suggests the
11 Constitutional Questions Act has to be invoked,
12 Manitoba Hydro will need to understand the rationale
13 and how to respond to such suggestion.

14 Having considered the request from
15 counsel, the Board directs that all parties intending
16 on invoking legal arguments in closing submissions
17 provide written notice to all other parties of such
18 intention on or before 5:00 p.m. Monday, January 29th,
19 2018.

20 Written notice to parties should
21 summarize the intended legal arguments, including
22 reference to any legislative provisions that underpin
23 those legal arguments. If counsel suggests any legal
24 arguments require notice pursuant to the
25 Constitutional Questions Act, that information is also

1 to be provided.

2 Lastly, the Board recognizes there is
3 still oral testimony to be heard from additional
4 witnesses. Should any of the subsequent testimony
5 give rise to further legal arguments that will be
6 included in closing submissions, parties should also
7 provide written notice of those legal arguments to all
8 other parties, and the Board on a timely basis.

9 I would ask if our legal counsel would
10 ensure that this is directed to all counsel of record.
11 Thank you.

12 Mr. Ghikas...?

13

14 CROSS-EXAMINATION BY MR. MATTHEW GHIKAS:

15 MR. MATTHEW GHIKAS: Thank you, Mr.
16 Chairman. Good afternoon, panel. My name is Matt
17 Ghikas, G-H-I-K-A-S, and I'm one (1) of counsel for
18 Manitoba Hydro, as you may have guessed from my
19 objections earlier.

20 I wanted to, first of all, deal with
21 some questions for Mr. Bowman on the self-supporting
22 principle. And I'd just ask you to confirm that the
23 issue of Manitoba Hydro as a self-supporting entity
24 that fully recovers its costs has been a core concept
25 for rate setting going back before the late 1980s?

1 MR. PATRICK BOWMAN: Yes, that's
2 correct.

3 MR. MATTHEW GHIKAS: And under that
4 principle of rate setting that has been in operation
5 since before the late '80s, domestic ratepayers
6 ultimately bear the burden -- sorry, ultimately bear
7 the cost of operating, and maintaining, and renewing
8 the system; right?

9 MR. PATRICK BOWMAN: Yes.

10 MR. MATTHEW GHIKAS: And if we turn to
11 your contention, as I've read it, sir, is that you
12 believe the contention about concern of self-
13 supporting status to be, in your words, poorly
14 supported or highly speculative.

15 Those are -- those words ring a bell?

16 MR. PATRICK BOWMAN: I -- I believe
17 that's a quote, yes.

18 MR. MATTHEW GHIKAS: Yes, it is. And
19 if we go to page 1-2 of your report, sir, you'll see
20 there on page 1-2 at the bottom there are bolded words
21 in line 27, "maintain self-supporting status" there.

22 And you'll see that bullet deals with
23 maintaining self-supporting status, right?

24 MR. PATRICK BOWMAN: Yes.

25 MR. MATTHEW GHIKAS: And the self-

1 supporting status, again, is a significant topic of
2 discretion in section 4 of your report, correct?

3 MR. PATRICK BOWMAN: Yes.

4 MR. MATTHEW GHIKAS: Okay. Now, first
5 of all, Mr. Bowman, the question of whether or not an
6 entity is self-supporting or not is a finance matter.

7 You'd agree?

8 MR. PATRICK BOWMAN: I don't think
9 it's entirely a finance matter. I think there's a --
10 one (1) of the issues that leads to Manitoba Hydro's
11 definition as a self-supporting entity arises from
12 Manitoba Hydro Act, so I believe there is a -- a legal
13 aspect to that.

14 But in practical terms, when we sit in
15 this room or we sit in other places dealing with --
16 with rate matters, certainly, the intention is to
17 develop rates that allow a Utility to recover its
18 costs, which is part of an overall self-supporting
19 concept.

20 MR. MATTHEW GHIKAS: Okay.

21 MR. PATRICK BOWMAN: I think there may
22 be a narrow definition you're referring to, which is
23 more of a -- a credit rating determination, which
24 would be a part of a finance matter.

25 MR. MATTHEW GHIKAS: Okay. Well, the

1 -- leaving aside just specifically the credit ratings,
2 you'd -- you'd -- you'd agree with me that whether or
3 not the capital markets consider Manitoba Hydro as
4 self-supporting is a question that involves
5 consideration of -- of the capital markets themselves,
6 right?

7 MR. PATRICK BOWMAN: Right. But I
8 guess when I say "credit rating agencies," capital
9 markets is a -- is another audience within the bubble
10 of finance, but in terms of any number of other
11 assessments that are done as part of a Utility
12 analysis, that -- that have an aspect of assessing
13 whether a Utility covers its costs, it's -- it's not
14 only about -- about lenders.

15 MR. MATTHEW GHIKAS: No, we'll --
16 we'll get to the rate setting aspect of things, sir.
17 I'm -- I'm asking from the perspective of whether or
18 not the markets consider Manitoba Hydro to be self-
19 supporting or not, that involves consideration of what
20 the capital markets believe, right?

21 MR. PATRICK BOWMAN: You're -- you're
22 focusing on one (1) aspect of that definition. I'm
23 suggesting there are more than one (1) aspect of that
24 definition and that it -- can -- it would also
25 consider things like -- like the setting of a revenue

1 requirement, which is not -- not about -- about
2 capital markets and lending, it's a -- it's about all
3 of the things are go into a -- a regulatory proceeding
4 and ratemaking and economics.

5 MR. MATTHEW GHIKAS: Manitoba Hydro
6 gets its debt, it's -- it's borrowing from the
7 province of Manitoba, correct?

8 MR. PATRICK BOWMAN: Yes.

9 MR. MATTHEW GHIKAS: And the province
10 of Manitoba gets its borrowing from the capital
11 markets, correct?

12 MR. PATRICK BOWMAN: In -- in each
13 case, you should assume my "yes" means predominantly,
14 yes. But yes, that's correct.

15 MR. MATTHEW GHIKAS: Well, I think --
16 I think, in this case, the province of Manitoba gets
17 its -- its debt or is -- is debt financed from the
18 capital markets, isn't it?

19 MR. PATRICK BOWMAN: Right. I was --
20 if anything, I was referring to the previous response.
21 Manitoba Hydro gets most of its debt from the
22 province. I -- I'm -- I don't want to quibble, but I
23 want to make sure that the record is clear. There are
24 aspects of -- of, you know, credit facility that
25 Manitoba Hydro doesn't get through the province, we

1 heard.

2 MR. MATTHEW GHIKAS: Okay. Your
3 expertise is not in the capital markets, is it, Mr.
4 Bowman?

5 MR. PATRICK BOWMAN: It's not in
6 capital markets.

7 MR. MATTHEW GHIKAS: Or -- or finance,
8 for that matter, right?

9 MR. PATRICK BOWMAN: Well, Mr. Ghikas,
10 I don't -- I -- I don't work in capital markets. I
11 have been involved with Utilities establishing
12 financing. I have been involved with meetings with
13 lenders. I have been involved with -- with setting up
14 financial arrangements for capital projects. I have
15 been involved in regulatory approvals for Utilities
16 who are establishing lending instruments. There are
17 many Utilities that are not allowed to issue debt
18 without the approval of their regulator. And I have
19 been involved in those proceedings on behalf of the
20 Utility justifying why a particular bond issuance is -
21 - is appropriate and when it's needed and why that the
22 terms are favourable.

23 So I think, you know, --

24 MR. MATTHEW GHIKAS: With respect to
25 your education, sir, you have a Bachelor of Arts in

1 Human Development and Outdoor Education?

2 MR. PATRICK BOWMAN: I do.

3 MR. MATTHEW GHIKAS: And a Masters in
4 Natural Resources Management?

5 MR. PATRICK BOWMAN: Correct.

6 MR. MATTHEW GHIKAS: You don't have a
7 business degree.

8 MR. PATRICK BOWMAN: I don't.

9 MR. MATTHEW GHIKAS: You don't have an
10 MBA?

11 MR. PATRICK BOWMAN: Nope.

12 MR. MATTHEW GHIKAS: You don't have
13 any education in corporate finance?

14 MR. PATRICK BOWMAN: No.

15 MR. MATTHEW GHIKAS: And with respect
16 to your work experience, you went straight from school
17 into your own consulting firm it seems?

18 MR. PATRICK BOWMAN: It's not my
19 consulting firm. I started as a researcher at the
20 consulting firm. But my -- as I noted my -- my
21 background, although natural resource management, was
22 focused on topics related to natural resource
23 economics, and as -- as part of the -- the practice
24 since that time, I've been involved in a number of
25 Utility matters which includes all the financial

1 related topics you're -- you're talking about,
2 including business planning and financial plans and
3 the like.

4 MR. MATTHEW GHIKAS: You've never
5 worked for an investment bank?

6 MR. PATRICK BOWMAN: No.

7 MR. MATTHEW GHIKAS: You've never
8 worked in the treasury department of a utility?

9 MR. PATRICK BOWMAN: I've never worked
10 for a Utility.

11 MR. MATTHEW GHIKAS: And you have
12 never worked for the treasury department of any
13 corporation, have you?

14 MR. PATRICK BOWMAN: I -- I -- my
15 professional career has been in consulting not in --
16 within a corporation.

17 MR. MATTHEW GHIKAS: Right. And with
18 respect to your involvement in bond -- bond issuances,
19 you weren't involved in advising the -- the lender in
20 that respect, were you?

21 MR. PATRICK BOWMAN: No.

22 MR. MATTHEW GHIKAS: So you've never
23 advised major investors who buy provincial bonds or
24 credit -- or credit rating agencies for that matter?

25 MR. PATRICK BOWMAN: I've never had

1 those as a client, no.

2 MR. MATTHEW GHIKAS: And in terms of
3 the three (3) pages of work highlights and the
4 chronological lists of Utility regulating matter --
5 regulation matters dating back to 1998 that you've
6 included, not one (1) of those retainers that you
7 identified in your CV is involved in assessment of the
8 capital market conditions?

9 MR. PATRICK BOWMAN: No.

10 MR. MATTHEW GHIKAS: And you've never
11 testified as an expert on capital market matters,
12 correct?

13 MR. PATRICK BOWMAN: No.

14 MR. MATTHEW GHIKAS: Mr. Osler, you
15 made a comment earlier that I noted down that in
16 response to a question you received about the
17 significance of 25 percent equity.

18 Do you recall that?

19 MR. CAMERON OSLER: I don't know which
20 comment you're referring to.

21 MR. MATTHEW GHIKAS: The -- the
22 comment I'm referring to, sir, is your response was to
23 the effect that 25 percent has no magic to anyone
24 except maybe a few people.

25 Do you recall that?

1 MR. CAMERON OSLER: I recall that
2 comment, yes.

3 MR. MATTHEW GHIKAS: And, Mr. Osler,
4 did you reach that opinion based on a detailed capital
5 markets assessment?

6 MR. CAMERON OSLER: No. My question
7 was -- my answer was referencing the range of
8 discussion that I was having with a person asking me
9 the question.

10 MR. MATTHEW GHIKAS: And -- and you're
11 an economist, sir, aren't you?

12 MR. CAMERON OSLER: Yes.

13 MR. MATTHEW GHIKAS: And your
14 specialty is with respect to rates and project work?

15 MR. CAMERON OSLER: It includes those
16 things, yes.

17 MR. MATTHEW GHIKAS: Yes, it's not --
18 not focused on capital markets matters, is it?

19 MR. CAMERON OSLER: No, and this
20 particular proceeding Mr. Colaiacovo is the one who is
21 the expert on that matter from the team that we're
22 talking to.

23 MR. MATTHEW GHIKAS: I see. And not
24 Mr. Bowman?

25 MR. CAMERON OSLER: He's just given

1 you his answer, sir.

2 MR. MATTHEW GHIKAS: Okay. And in
3 terms of your comment about the 25 percent -- the
4 significance of the 25 percent, are you aware, sir,
5 that the rating agencies are all in their reporting
6 citing the target of 75 to 25 percent in their credit
7 reports?

8 MR. CAMERON OSLER: Is your question
9 referencing Manitoba Hydro or all Utilities in Canada?

10 MR. MATTHEW GHIKAS: Are you aware
11 that for Manitoba Hydro, DBRS, for example, is citing
12 the fact that Manitoba Hydro has a target of 75:25
13 debt/equity ratio?

14 MR. CAMERON OSLER: I am not aware. I
15 haven't reviewed their material. But I would expect
16 each rating agency would be reporting on the targets
17 that Manitoba Hydro specifies that it has.

18 MR. MATTHEW GHIKAS: And do you recall
19 hearing Mr. Colaiacovo me question him? Were you --
20 were you listening to that or reading the transcript
21 of the -- my cross-examination?

22 MR. CAMERON OSLER: I heard parts of
23 your cross-examine, sir.

24 MR. MATTHEW GHIKAS: And do you recall
25 the -- the portions of the cross-examination where I

1 referred him to his NFAT evidence where his -- in his
2 NFAT evidence he was also making reference to the fact
3 that the rating agencies refer to 25 percent equity as
4 a target?

5 MR. CAMERON OSLER: I vaguely recall
6 it but yes.

7 MR. MATTHEW GHIKAS: Now turning back
8 to you, Mr. Bowman, to your bullet on page 1-2 and
9 over on 1-3, in the context of self-supporting status.

10 On line 3 of 1-3, you -- you're
11 referring to the recent pattern of increases of 3.95
12 percent being more than sufficient and you say, on
13 line 3, quote:

14 "Central to this finding is that
15 regulatory certainty, continuity and
16 transparency is important. Concerns
17 exist that Hydro's proposals reflect
18 instability, a lack of transparency
19 and, most notably, a lack of
20 continuity in ratemaking, which may
21 serve to undermine the perception of
22 Hydro's regulatory risks."

23 Do you see that, sir.

24 MR. PATRICK BOWMAN: Yes.

25 MR. MATTHEW GHIKAS: So in your view,

1 the -- the importance of regulatory certainty,
2 continuity and transparency is central to your self-
3 sufficiency assessments, sir?

4 MR. PATRICK BOWMAN: Mr. Ghikas, the
5 quote is about the mix of definitions of self-
6 supporting status that I was using, and that part of
7 that it specifically references regularly certainty,
8 continuity and transparency and, in particular, if you
9 want to go to it it's part of the -- the S&P criteria
10 as well. But that was what I was referencing.

11 MR. MATTHEW GHIKAS: I -- I will go to
12 that later, Mr. Bowman. Just in terms of your
13 reference to concerns exist, whose concerns might
14 those be?

15 MR. PATRICK BOWMAN: I -- the evidence
16 -- it's my evidence, Mr. Ghikas, so I think I was
17 voicing my own concern, but I also -- that there's a -
18 - I think there would be a basis for -- for a general
19 concern of -- of an inconsistent treatment.

20 MR. MATTHEW GHIKAS: So just to be
21 clear, that -- that is your concerns that you're
22 expressing as somebody with -- whose education and
23 experience falls outside of capital markets and
24 finance, sir?

25 MR. PATRICK BOWMAN: Mr. Ghikas, it's

1 not a point on capital markets and finance. It was
2 never intended that way and if -- if it's read that
3 way, I do apologize.

4 Mr. Chair, the intent of this section
5 was to deal with the -- the importance of a -- of a
6 regulator and -- and the importance of the orders and
7 the consistency in the regulatory regime and the
8 regulatory orders and the different audiences they're
9 used by. That's all.

10 MR. MATTHEW GHIKAS: Well, Mr. Bowman,
11 you just referred me to S&P. Is S&P a rating agency?

12 MR. PATRICK BOWMAN: S&P is a rating
13 agency.

14 MR. MATTHEW GHIKAS: Right. So I'm --
15 I'm suggesting to you that if you just referred me to
16 S&P, this comment must have something to do with the
17 capital markets and the rating agencies; is that not
18 so?

19 MR. PATRICK BOWMAN: I think it's --
20 Mr. Ghikas, I think it's fair to say it's broader than
21 that. I -- the -- I was -- within this bullet I'm
22 referencing three (3) different concepts of self-
23 supporting that are embedded in the evidence that I
24 was asked to test and -- including KPMG's and Hydro's
25 and the -- the various rating agencies. I didn't get

1 into running the tests that the rating agencies use.
2 I didn't have access to the confidential reports of
3 the rating agencies. If anything, you'll find for my
4 direct I focused on KPMG's and Hydro's definitions.

5 KPMG's definition is if anything
6 focused on competitiveness of rates and the ability to
7 raise rates when you need to, which is not to me a
8 finance question, is very much a rate regulatory
9 question. And the remainder of this is talking about
10 regulatory stability and how a Board's decisions and
11 Orders and -- and a Utility's rate paths are to be
12 understood; that's something I deal with every day.

13 MR. MATTHEW GHIKAS: And -- and just
14 to be clear, Mr. Bowman, no rating agency told you
15 that they were concerned about instability, lack of
16 transparency and lack of continuity in ratemaking, did
17 they?

18 MR. PATRICK BOWMAN: No, I'm not
19 suggesting it's a rating agency's conclusion. I'm --
20 I -- I mentioned, this is my submission.

21 MR. MATTHEW GHIKAS: Okay. And no --
22 no lender or participant in the capital markets told
23 you they were concerned about instability, lack of
24 transparency, and lack of continuity in ratemaking,
25 did they?

1 MR. PATRICK BOWMAN: No.

2 MR. MATTHEW GHIKAS: Nobody in
3 provincial government expressed that concern to you,
4 did they?

5 MR. PATRICK BOWMAN: No.

6 MR. MATTHEW GHIKAS: Now, in terms of
7 what the rating agencies think regarding this central
8 consideration of transparency, you'd agree with me
9 that Manitoba Hydro has filed thousands of pages of
10 information in this application regarding its
11 financial position?

12 MR. PATRICK BOWMAN: Yes.

13 MR. MATTHEW GHIKAS: And that it's
14 responded to in excess of 2000 IRs from multiple
15 parties?

16 MR. PATRICK BOWMAN: Yes.

17 MR. MATTHEW GHIKAS: And that it's
18 provided updated information on its financial position
19 during the course of the proceeding?

20 MR. PATRICK BOWMAN: Yes.

21 MR. MATTHEW GHIKAS: And that we're in
22 the middle of a multiweek oral hearing focused on,
23 among other things, the Company's financial position?

24 MR. PATRICK BOWMAN: Yes.

25 MR. MATTHEW GHIKAS: Can you point me

1 to any instance where any rating agency has expressed
2 concern about lack of transparency on the part of
3 Manitoba Hydro?

4 MR. PATRICK BOWMAN: No. As I said,
5 Mr. Ghikas, it's not a -- this -- this section of the
6 evidence was referencing things that it is -- it said
7 in the evidence are important to various parties,
8 including agencies, but not only agencies and coming
9 to my conclusion that there's a basis for concern.

10 MR. MATTHEW GHIKAS: Well, sir, you're
11 saying that they're important to the agencies, but
12 there's nothing in the DBRS reports expressing a
13 concern about transparency, is there?

14 MR. PATRICK BOWMAN: No --

15 MR. MATTHEW GHIKAS: And there's no --

16 MR. PATRICK BOWMAN: -- not that I'm
17 aware -- not that I'm aware of, sir.

18 MR. MATTHEW GHIKAS: And there's
19 nothing in the Moody's reports pressing concern about
20 transparency, is there?

21 MR. PATRICK BOWMAN: Not that I'm
22 aware of, sir.

23 MR. MATTHEW GHIKAS: And there's
24 nothing in the S&P reports expressing concern about
25 transparency, is there?

1 MR. PATRICK BOWMAN: I have to admit
2 that that one I'm -- I'm not aware. I don't remember
3 what -- S&P was one that we spent a bit more time
4 reviewing but I -- I don't recall.

5 MR. MATTHEW GHIKAS: Are there any
6 rating agencies that I've missed in terms of those who
7 are rating Manitoba Hydro's debt?

8 MR. PATRICK BOWMAN: No. Not that I'm
9 aware of, Mr. --

10 MR. MATTHEW GHIKAS: Okay. Now, in
11 terms of the -- the central importance or the
12 centrality of importance of certainty and continuity
13 in ratemaking.

14 So, from what I understand you're
15 saying the concern is that the pattern of rate
16 increases of three nine five (3-9-5) -- that asking
17 for an increase that differs from that pattern may be
18 a risk to the Company's self-supporting status or
19 credit negative because it -- it suggests regulatory
20 risk.

21 Is that -- is that how I should read
22 lines 5 to 7?

23 MR. PATRICK BOWMAN: Mr. Ghikas, it's
24 a one (1) sentence attempt to summarize an entire
25 section of the evidence, but -- which I'm happy to go

1 through, if you like.

2 But the -- the -- the issue -- it may
3 be best done by going to the section.

4 MR. MATTHEW GHIKAS: All right. Well,
5 you have cited here:

6 "...most notably a lack of
7 continuity in ratemaking which may
8 serve to undermine the perception of
9 Hydro's regulatory risk."

10 Are you telling me that doesn't reflect
11 your evidence elsewhere?

12 MR. PATRICK BOWMAN: I'm not
13 suggesting that for a moment, Mr. Ghikas. I'm
14 suggesting that if you go back a page, you'll see the
15 context that we were asked to review. You'll see the
16 assignment that we were asked to undertake. If you
17 move to section 3, you'll see the principles that we
18 applied, and -- to come to the conclusions or that I
19 applied to come to the conclusions and you'll see that
20 they focus on the regulatory and rate question. They
21 focus on rate competitiveness. They focus on the
22 importance of loads and building loads. They focus on
23 the importance of certainty to customers. And they
24 focus on whether, combined those things, give rise to
25 questions about Hydro's commitment to a plan that it

1 put in place, supposedly with the support of many
2 people around it including this Board, and whether a -
3 - a dramatic change in the way Hydro's unfolding that
4 plan gives questions to continuity.

5 MR. MATTHEW GHIKAS: And we are --
6 let's put ourselves in the shoes of the holders of
7 provincial bonds for a moment.

8 Would you agree with me that their
9 interest is in seeing that the province pays its
10 interest payments and repays the principal on the --
11 on the amounts owing?

12 MR. PATRICK BOWMAN: Yes.

13 MR. MATTHEW GHIKAS: And credit
14 ratings are looking at Manitoba Hydro from the
15 perspective of a bondholder who wants to recover its
16 interest and principal too, right?

17 MR. PATRICK BOWMAN: Yes.

18 MR. MATTHEW GHIKAS: And so I'd
19 suggest to you, sir, that regulatory risk from the
20 perspective of a bondholder is the risk that the
21 regulator won't increase rates when required, and
22 won't allow recovery of appropriate costs.

23 Wouldn't you agree?

24 MR. PATRICK BOWMAN: I guess at a very
25 simple level, Mr. Ghikas, but you have to understand

1 that if you've watched the Utility industry for very
2 long, instability can arise in rates and in the
3 finances of a company and in the competitiveness of
4 rates and in the ability to maintain your loads from a
5 bunch of different sources.

6 And the idea that a Utility that has a
7 long-term plan will change that plan on a dime without
8 substantial change in the underlining facts but will
9 change them on a dime would -- surely, gives rise to
10 the concern that the next time a different group of
11 people come in, they will change it on a dime again
12 and you have significant concerns about the stability
13 of that -- of that jurisdiction.

14 The reason things like regulars are put
15 in place, as Mr. Osler went over, is to deal with
16 things like the political side of -- of interventions
17 and other interventions that give -- give -- would
18 give rise to the concerns of -- of a -- of a lender --
19 not only lenders, of a customer, of someone who wants
20 to build a plant, of a -- as I noted, as an industrial
21 customer who's thinking about expanding, of all the
22 things that are needed to make a Utility run
23 successfully.

24 MR. MATTHEW GHIKAS: You'd agree with
25 me, sir, that Manitoba Hydro's cash flow would

1 improve, among other things being equal, if rates
2 increase more than 3.95 percent?

3 MR. PATRICK BOWMAN: Yes, this time if
4 -- the turn is to drive more cash to Hydro.

5 MR. MATTHEW GHIKAS: And improved cash
6 flow is better for bondholders, other things being
7 equal?

8 MR. PATRICK BOWMAN: Yes.

9 MR. MATTHEW GHIKAS: And it's easier
10 for the Company to cover the interest payments, right?

11 MR. PATRICK BOWMAN: Yes.

12 MR. MATTHEW GHIKAS: And it raises the
13 probability of principal being repaid, right?

14 MR. PATRICK BOWMAN: Yes.

15 MR. MATTHEW GHIKAS: And it reduces
16 the likelihood of financial distress necessitating the
17 province stepping in for Manitoba Hydro, right?

18 MR. MATTHEW GHIKAS: Unless it chases
19 away the loads that are needed to pay the bills, yes.

20 MR. MATTHEW GHIKAS: And higher rate
21 increases would also help reduce leverage, other
22 things being equal?

23 MR. PATRICK BOWMAN: Subject to the
24 caveat I made, yes.

25 MR. MATTHEW GHIKAS: And -- and they

1 would also provide some financial flexibility through
2 the ability to borrow more, right?

3 MR. PATRICK BOWMAN: I -- I guess.
4 I'm looking at a plan and I'm wondering where in there
5 it suggests Hydro wants to borrow more once it
6 finishes Keeyask, but -- but, yes.

7 MR. MATTHEW GHIKAS: And it would also
8 lower the -- the impact of unforeseen increases in
9 interest rates, wouldn't it?

10 MR. PATRICK BOWMAN: Well, I think,
11 Mr. Colaiacovo did the -- did a nice summary about how
12 that -- the interest rate changes as -- as debt comes
13 due. It's not like an int -- debt changes as a shock
14 overnight.

15 MR. MATTHEW GHIKAS: From the
16 perspective of a bondholder having less debt is -- on
17 the -- on the books reduces the risk of interest rate
18 exposure, doesn't it?

19 MR. PATRICK BOWMAN: From the -- I --
20 I would expect from the perspective of any lender, the
21 person you're lending to having less debt is
22 favourable.

23 MR. MATTHEW GHIKAS: Okay. If we can
24 turn to the -- I've handed out, Mr. Chairman, a book
25 of documents for this cross-examination. It's -- I

1 understand it's to be marked as Manitoba Hydro Exhibit
2 116-2. And counsel for MIPUG has received copies of
3 these in advance as well and we'll go through these
4 documents as we -- as we do it.

5

6 --- EXHIBIT NO. MH-116-2: Book of documents for
7 cross-examination of MIPUG
8 Panel.

9

10 CONTINUED BY MR. MATTHEW GHIKAS:

11 MR. MATTHEW GHIKAS: First of all, if
12 we can go to tab 3 of that book. There's just some
13 excerpts from appendix 4.4 of the -- of the
14 application, Manitoba Hydro's application, and there's
15 just some DBRS reports. And I've only included the
16 most recent ones.

17 MR. ANTOINE HACAULT: Mr. Chair, I
18 know throughout these proceedings, and I don't want to
19 interrupt any cross-examination by Mr. Ghikas, that
20 we're referring to a number of credit rating agencies'
21 reports.

22 I know that this proceeding doesn't
23 follow the normal rules of evidence where you would
24 have to call somebody from DBRS and Standard & Poor's
25 and Moody's. But I do just want to put on the record

1 that I urge the Board to be mindful of the fact that
2 we have nobody that has testified with respect to any
3 of these reports, or anything that's said in those
4 reports. And nobody's been brought by Manitoba Hydro
5 to do that. And in previous questioning some of the
6 questions assumed some things that those witnesses
7 might've said and incorrectly so.

8 So, with that general comment, I'll let
9 Mr. Ghikas continue his cross-examination.

10 THE CHAIRPERSON: Understood. Mr.
11 Ghikas, could I just ask, this specific report, is
12 this in already?

13 MR. MATTHEW GHIKAS: Yes, it's -- it's
14 in the GRA application, appendix 4.4.

15 THE CHAIRPERSON: Thank you.

16

17 CONTINUED BY MR. MATTHEW GHIKAS:

18 MR. MATTHEW GHIKAS: If we can go,
19 first of all, this is just talking -- dealing with
20 your -- your -- your suggestion about lack of
21 continuity in ratemaking may serve to undermine the
22 perception of Hydro's regulatory risks.

23 And I just wanted to draw your
24 attention, sir, to something that DBRS said here over
25 on the first page 1 of 40, on the right-hand column,

1 you'll see there's a reference about six (6) or seven
2 (7) lines down to the BCG report.

3 "Also noted, the rising leverage at
4 the Utility as a result of the
5 substantial capex. Debt to capital
6 at Manitoba Hydro has risen to 83
7 percent at F2 2016, and had been
8 expected to peak at 88 percent,
9 significantly above the target
10 capital structure of 75 percent
11 debt. A new Board appointed at
12 Manitoba Hydro in 2016 intends to
13 limit the deterioration in the
14 Utility's balance sheet. As a
15 result, the Utility has begun
16 reviewing initiatives to help
17 alleviate pressure on its key
18 financial ratios, such as improving
19 operational efficiencies, requesting
20 annual rate increases higher than
21 the previous plan 3.95 percent, as
22 well as a potential equity injection
23 from the province. DBRS sees these
24 initiatives, if actualized, as
25 positive to Manitoba Hydro's

1 financial profile as they will
2 provide some financial flexibility
3 for the Utility, especially in the
4 event of adverse drought conditions
5 or further cost overruns on the
6 project."

7 Do you see that?

8 MR. PATRICK BOWMAN: Yes.

9 MR. MATTHEW GHIKAS: Okay. Now, sir,
10 does that statement by DBRS strike you as an
11 expression of concern about potential rate increases
12 above 3.95 percent?

13 MR. PATRICK BOWMAN: No.

14 MR. MATTHEW GHIKAS: Now if we go to
15 tab 4 of the book of documents, sir, for a moment.
16 These are -- the original exhibit that these -- this
17 is excerpts from the Moody's report and the Moody's
18 report is already on the record confidentially and
19 I've just ask excerpt them. I -- from Exhibit MH-61
20 just to protect the confidentiality of them.

21 But, just looking at the first excerpt,
22 you'll see Moody's is saying:

23 "Manitoba Hydro operates in a stable
24 regulatory framework with steady
25 yearly rate increases. It had an

1 interim rate increase of 3.36
2 percent effective August 1st, 2017
3 that will flow into the Bipole III
4 deferral account. While rate
5 increases are nominally set on a
6 cost of service basis, rate
7 increases in recent years have
8 clearly not kept up with costs as
9 evidenced by ongoing weak financial
10 metrics. The MPUB independently
11 oversees the ratesetting process and
12 has a supportive environment for
13 cost recovery. Residents in
14 Manitoba continue to pay rates that
15 are among the lowest in North
16 America. Revenues from exports to
17 the US and other Canadian provinces
18 account for over 20 percent of
19 electric revenue alleviating
20 pressure to increase rates and
21 contributing to the current low
22 rates in the province."

23 Do you see that?

24 MR. PATRICK BOWMAN: Yes.

25 MR. MATTHEW GHIKAS: And that,

1 presumably, doesn't strike you as an expression of
2 concern about further rate increases either, does it?

3 MR. PATRICK BOWMAN: I -- I don't read
4 that. I read it as an expression of -- of confidence
5 in the -- in the Board. I don't know how it accords
6 that -- what support of a -- apparently a support of a
7 Board is implementing rate increases that they're
8 asserting are incorrect or too low, but I don't read
9 it is as a concern about -- about rate increases, I
10 read it as a concern about stability --

11 MR. MATTHEW GHIKAS: And is that --

12 MR. PATRICK BOWMAN: -- sorry, a
13 confirmation of the benefits of an independent
14 regulator and stability.

15 MR. MATTHEW GHIKAS: And does that
16 comment apply to the previous sentence, which says:

17 "While rate increases are nominally
18 set on a cost of service basis
19 increases in recent years have
20 clearly not kept up with costs as
21 evidenced by ongoing weak financial
22 metrics."

23 MR. PATRICK BOWMAN: Mr. Ghikas, as I
24 said, I cannot accord a statement that says your rates
25 are being set too low, and then a statement says that

1 your Utility Board is doing a good job. I -- I don't
2 know how to read those two (2) together. I'm not sure
3 how any reader does.

4 But, as I read this, it -- it
5 underlines what I was saying that in an independent
6 regulator is -- is an important aspect of -- of a rate
7 regime. And I don't -- I don't read this as saying
8 anything different than that.

9 MR. MATTHEW GHIKAS: And if you see in
10 the second quotation, you'll see the reference by
11 Moody's to the fact that:

12 "Manitoba Hydro's financial metrics
13 are among the weakest, if not the
14 weakest, of any of Manitoba Hydro's
15 peers, including vertically
16 integrated, provincially owned Crown
17 corporations in Canada."

18 Do you see that?

19 MR. PATRICK BOWMAN: Yes, Mr. Ghikas.

20 MR. MATTHEW GHIKAS: And does that
21 strike you as Moody's being concerned about rate
22 increases above 3.95 percent, sir?

23 MR. PATRICK BOWMAN: I -- I don't see
24 mention of rate increases in that section.

25 MR. MATTHEW GHIKAS: You'd agree with

1 me, they seem to be expressing concern that Manitoba
2 Hydro is the weakest or among the weakest, if not the
3 weakest, metrics?

4 MR. PATRICK BOWMAN: I -- I see that
5 that's referenced, yes. Says "weakest, if not --
6 "weakest, if not the weakest," is the phrase.

7 MR. MATTHEW GHIKAS: All right. You
8 mentioned S&P's methodology previously. And I want to
9 go to that. Page 407 of your report, please. Okay.

10

11 (BRIEF PAUSE)

12

13 MR. MATTHEW GHIKAS: So on -- on page
14 4 -- are you with me, Mr. Bowman?

15 MR. PATRICK BOWMAN: Yes.

16 MR. MATTHEW GHIKAS: Page 4-7, okay.
17 So here you pick up on the theme of regulatory
18 stability again and you have -- you'll see that -- in
19 line 7, you say:

20 "If anything, a key conclusion from
21 the above material is the lack of a
22 need for a 7.9 percent per year rate
23 increase today, but instead a
24 significant requirement to
25 communicate regulatory support and

1 reliable regulatory regime to
2 lenders and credit rating agencies.
3 This is specifically cited in the
4 desirable characteristics that play
5 into the ratings criteria from S&P
6 provided by -- provided in MIPUG-MH-
7 1-8 (a) to (k) as follows."

8 And you cite regulatory stability and
9 regulatory independence and insulation.

10 Do you see that?

11 MR. PATRICK BOWMAN: Yes.

12 MR. MATTHEW GHIKAS: And then you cite
13 in your footnote the IR and then the ratings direct
14 criteria, key credit factors for regulated Utilities
15 industry.

16 And so I wanted to turn to that IR
17 where we've -- this is MIPUG-1-8. And I believe the
18 PDF page number where this starts is page PDF 249.
19 All right, brilliant. Okay. So it's -- it's called
20 up on the screen.

21 So this is what you were referring to,
22 was it, sir?

23 MR. PATRICK BOWMAN: That is where
24 that section is quoted. I -- I believe I probably
25 relied on the -- it being quoted in the IR response

1 itself in -- in MIPUG-1-8 (a) to (k) but it's in here
2 as well.

3 MR. MATTHEW GHIKAS: Okay, so then you
4 -- you didn't read the S&P criteria themselves?

5 MR. PATRICK BOWMAN: Oh, Mr. Ghikas,
6 I -- I reviewed the response, I reviewed the
7 attachments.

8 MR. MATTHEW GHIKAS: Okay.

9 MR. PATRICK BOWMAN: I'm -- I'm just
10 saying that the -- the source before the footnote is -
11 -- is from the IR response itself but....

12 MR. MATTHEW GHIKAS: Okay.

13 MR. PATRICK BOWMAN: That's fine, we
14 can use this.

15 MR. MATTHEW GHIKAS: Okay. So in the
16 -- the -- I see -- I see in the IR response where
17 you're referring to, okay. If -- if we need to go
18 there... Well, let's -- let's -- let's use this.

19 If we can go -- scroll down to
20 paragraph 21. So this is page 5 of the document or
21 PDF 253. You'll see in paragraph 21 they're
22 discussing:

23 "The regulatory framework regime's
24 influence is of critical importance
25 when assessing a regulated Utility's

1 credit risk because it defines the
2 environment in which the Utility
3 operates and has significant bearing
4 on the Utility's financial
5 performance."

6 So stopping there, S&P's ultimate
7 concern then, sir, is how the framework affects the
8 Utility's financial performance, right?

9 MR. PATRICK BOWMAN: Of the regulatory
10 framework, yes, absolutely. This is the point I was
11 underlining in -- in spades. And -- and actually if
12 we go to the IR response at some point, I'll -- I'll
13 show you why it's so critical.

14 MR. MATTHEW GHIKAS: Okay. And then
15 you'll see in the next paragraph they talk about how
16 they:

17 "...base their assessment in terms
18 of regulatory stability, efficiency
19 and tariff setting procedures,
20 financial stability and regulatory
21 independence to protect -- to
22 protect a Utility's credit quality
23 and its ability to recover costs and
24 earn a timely return."

25 Do you see that there?

1 MR. PATRICK BOWMAN: Yes.

2 MR. MATTHEW GHIKAS: Now, in paragraph
3 23 you'll see S&P say:

4 "When assessing regulatory
5 advantage, we first consider four
6 (4) pillars and sub factors that we
7 believe are key for a Utility to
8 recover all of its costs on time and
9 in full and earn a return on its
10 capital employed."

11 And then you'll see that two (2) of
12 those are the ones that you quoted in your evidence;
13 right?

14 MR. PATRICK BOWMAN: Yes, that --
15 those are the key ones in regards to the regulator.

16 MR. MATTHEW GHIKAS: Right. And
17 you've -- and -- so you've quoted paragraph 24 and 27,
18 and in paragraph 27, the second bullet says:

19 "Protecting the Utility's credit
20 profile even during a stressful
21 event..."

22 That would be code for increasing rates
23 as necessary, right?

24 MR. PATRICK BOWMAN: I -- I'm trying
25 to keep up with you, Mr. Ghikqw, can you point me to

1 where you were quoting?

2 MR. MATTHEW GHIKAS: Sec -- second
3 bullet in paragraph 27.

4 MR. PATRICK BOWMAN: Oh, yes,
5 absolutely. And you'll see that -- that's also what I
6 quoted in my evidence. I thought you were suggesting
7 it was one I didn't quote.

8 But if you go back, the -- the key
9 there -- and I think this is critical to Mr. Osler's
10 and Mr. Forrest's testimony this morning is the risk
11 of political intervention, which is among the things
12 that I was highlighting that if you have an
13 independent regulator committed to a long-term plan,
14 that gives -- that has the ability to give everyone
15 from customers to governments to, I will submit,
16 lenders confidence about how a plan unfolds.

17 What we had seen before there was a
18 regulator in place Manitoba was political intervention
19 so that rates would go up a bunch; rates would get
20 frozen. Nobody knew when. Act -- the Act would get
21 put in place for the energy stabilization. It would
22 get repealed. That type of -- of mess causes a high
23 level of uncertainty. This -- this bullet is not
24 necessarily just about the regulator, it's about the
25 political intervention in the regulator's work.

1 MR. MATTHEW GHIKAS: And -- and so
2 S&P, although it's citing four (4) pillars, you're
3 only identifying two (2), right?

4 MR. PATRICK BOWMAN: I -- I was
5 putting the two (2) that were related to the regulator
6 in front and centre, yes.

7 MR. MATTHEW GHIKAS: Okay. And -- and
8 both of the pillars that you omitted were concerned
9 with the recoverability of costs in full?

10 MR. PATRICK BOWMAN: Mr. Ghikas,
11 they're in the IR. It -- it is not an intention to
12 omit. It was an intention to keep the length of the
13 document down and focus on the aspects to deal with
14 the regulator. Recovery of costs in full is
15 absolutely a principal of Manitoba Hydro through the
16 entire structure of the Manitoba Hydro Act in its
17 entire history.

18 MR. MATTHEW GHIKAS: And -- and
19 financial stability, right?

20 MR. PATRICK BOWMAN: Yes, absolutely.
21 And I emphasize that is a key customer concern as
22 well. They do not want to be served by a Hydro that
23 is not financially stable.

24 MR. MATTHEW GHIKAS: And
25 attractiveness of long -- attracting long-term

1 capital?

2 MR. PATRICK BOWMAN: Right. Now, this
3 one, let's be a little bit careful, because
4 attractiveness of long-term capital is an essential
5 component of how you set up a regulatory regime and
6 what type of capital you're trying to attract. If
7 you're dealing with a place that has private sector
8 utilities, you have to set in place a regime that
9 gives certain certainties that you can attract in the
10 companies who will bring their equity and also some
11 debt with them to build the assets in your
12 jurisdiction.

13 We don't have that problem. In
14 Manitoba, here, we do it ourselves. So we don't have
15 quite the same attract equity or -- or give the
16 investor certain protections and guarantees that you'd
17 have in all these other utilities. It's one (1) of
18 the reasons I sort of expressed concern about some of
19 the -- the comparisons. It's a different framework
20 when we're more of this almost quasi-co-op model, much
21 more than they were -- or -- I believe Mr. Colaiacovo
22 called it the cost-based recovery model as opposed to
23 something that's more as along the lines of a rate
24 base, or a return equity model.

25 MR. MATTHEW GHIKAS: And you'll see in

1 paragraph 26, the last bullet there, one (1) of the
2 principles is capital support during construction to
3 alleviate funding and cash flow pressure during
4 periods of heavy investment. Do you see that?

5 MR. PATRICK BOWMAN: Sure. Yeah. If
6 I'm -- if -- if I'm someone who's involved in dealing
7 with a -- a utility, I want to know that if they start
8 on a project, they're not going to run out of money
9 halfway through.

10 MR. MATTHEW GHIKAS: Now, the -- first
11 of all, the credit factors for regulated utilities,
12 you understand they -- they only modify the corporate
13 methodology for S&P?

14 MR. PATRICK BOWMAN: I think we should
15 go back -- it may help to go back to the -- the IR
16 response, which walks through the -- the full logic.
17 Is that --

18 MR. MATTHEW GHIKAS: Well, it might be
19 -- it might be easiest if you just see the section --
20 sorry, paragraph 4 of S&P on the second page, I
21 believe. Paragraph 4, you'll see right at the end of
22 that section 4, there, there's a reference to all
23 other sections of the corporate criteria applying to
24 the analysis of regulated utilities.

25 So you -- you understand that this is -

1 - sort of supersedes some of those sections, but that
2 the other -- the cau -- the typical corporate rating
3 methodology applies generally?

4 MR. PATRICK BOWMAN: Yeah. Can -- can
5 we go to that IR? It would be MIPUG --

6 MR. MATTHEW GHIKAS: Sure.

7 MR. PATRICK BOWMAN: -- 8(a) to (k),
8 and you'd want to go to page 3, which is, I think, the
9 critical one to sort of deal with this. And the first
10 methodology they apply, which I believe is what you
11 were referring me to, is set out in this table 18.
12 And this is all walked through in that -- in that
13 entire IR.

14 And the -- the critical one, and Hydro
15 puts it here, analysts focus mostly on FFO to debt.
16 It's in the second line below the table. You go to
17 the table of FFO to debt, and it sets out the most
18 important ratings criteria, and you go down that list,
19 and you see whether utilities, or your company, in
20 this case, is going to end up in -- anywhere between
21 minimal and highly leveraged, right? Highly leveraged
22 is anything that is less than nine (9) FFO to debt.

23 As you go down to the bottom of that
24 paragraph -- no, don't move the document, but as you
25 look at the bottom of that paragraph, it notes that

1 Manitoba Hydro's FFO to debt is two point two (2.2).
2 So Manitoba Hydro, in regards to S&P's assessment,
3 Manitoba Hydro has no prospect of being anywhere but
4 the highly leveraged category. And we had -- we asked
5 a second follow-up IR that says, Do you have any
6 prospect -- any plans? Is your intention to get out
7 of this category? And they say, No. That's where
8 they gave the Manitoba Hydro's definition of self-
9 sustaining is as follows, that I put in my -- in my
10 presentation.

11 So we're at two point two (2.2). We
12 have to get over nine (9) to get out of that bottom
13 row. And in effect, what you'll find if you read
14 through this IR is once you're in the bottom row, you
15 now have to start to look at different things than
16 financial ratios, because your financial ratios don't
17 -- aren't comparable anymore to other -- other
18 utilities -- or other -- other companies they're
19 comparing you to.

20 And as you move down, you'll find that
21 it leads you to say, you need to consider things like
22 the country you operate in, the industry you operate
23 in, and your regulator, and all those four (4) points
24 you put, which I had quoted two (2) of.

25 MR. MATTHEW GHIKAS: Yeah. Mr.

1 Bowman, we're -- I think we're -- we're ships passing
2 in the night, here. I'm -- I'm still focused on your
3 statement on paragraph -- sorry, on page 1-3 that:

4 "Concerns exist that Hydro's
5 proposals reflect instability, a
6 lack of transparency, and most
7 notably, a lack of continuity in
8 ratemaking, which may serve to
9 undermine the perception of Hydro's
10 regulatory risks."

11 That's where I'm at, and -- and so
12 we're -- we're looking here. You've cited S&P as
13 support for that, and I'm walking you through the
14 methodology. And so far, we've discussed the
15 methodology in that their -- their concerns with
16 respect to stability and ratemaking are all about from
17 the bondholders perspective, right? They're concerned
18 with the financial position of the company, right?

19 MR. PATRICK BOWMAN: Right, and we
20 agreed I was talking about more than that, but I'm
21 happy to go down the road of the bondholder, and
22 that's -- that -- in this context, S&P is about the
23 bondholder.

24 MR. MATTHEW GHIKAS: Right. And so if
25 we can go to --

1 THE CHAIRPERSON: Sorry, if I could --
2 I just want to correct something. Did you say S&P is
3 the bondholder?

4 MR. PATRICK BOWMAN: No, I said S&P's
5 perspective is from the perspective of informing a
6 bondholder, someone who -- whose interest in Hydro is
7 lending to Hydro, not someone whose interest in Hydro
8 is buying from Hydro. That's fine.

9 THE CHAIRPERSON: Sorry. I
10 misunderstood your comment.

11 MR. PATRICK BOWMAN: Yeah. Thank --
12 thank you for --

13

14 CONTINUED BY MR. MATTHEW GHIKAS:

15 MR. MATTHEW GHIKAS: All right. If we
16 -- if we go to the general corporate methodology --
17 actually, sorry, one (1) -- before we do that, I'm
18 sorry, paragraph 20 of the Utility methodologies, so
19 this is PDF 252. Paragraph 20, PDF 252. Thank you.

20 All right. So this is -- this is
21 explaining putting this in the context of competitive
22 advantage, so in the standard methodology, you have a
23 concept of competitive advantage, and this is making a
24 point that one (1) of the utility methodology
25 principles that kind of takes us outside of that,

1 because there is no competition in a monopoly setting.
2 So this is where -- one (1) of these areas where this
3 methodology steps in.

4 So I want to take you now to the
5 general corporate methodology of S&P. And that's on
6 PDF 173, and see where this competitive position fits
7 in the overall -- and I'm looking at the diagram,
8 here. Right. So you'll see it's one (1) of three (3)
9 factors that goes into business risk profile on the
10 left. Do you see that?

11 MR. PATRICK BOWMAN: In the blue?

12 MR. MATTHEW GHIKAS: In the blue,
13 that's right. All right. And so this whole
14 discussion that we've been having about the -- the
15 centrality of rate smoothing, Sir, or smooth and
16 stable rates, you'd agree that where this fits in the
17 picture is in that competitive position box, right, as
18 far as S&P is concerned?

19 MR. PATRICK BOWMAN: Well, it's --
20 it's -- my understanding is it's in -- effectively in
21 -- a replacement for the -- the competitive type of
22 considerations the regulator stands in as your -- your
23 rate setting, rather than the market being your rate
24 setting.

25 MR. MATTHEW GHIKAS: Okay. All right.

1 So now I want to go to the KPMG report, because you've
2 cited -- you've cited the KPMG report on slide 27 of
3 your presentation. You've quoted from it. And if we
4 can go to -- this is appendix 4.1, the KPMG report,
5 the -- 4.1 of the -- right. And turning to page 115,
6 I believe.

7 So you've included one quote, sir, and
8 I just wanted to bring to your attention something
9 else on this page. If you can go down to the
10 paragraph that says, "as discussed," and you see it
11 says in the middle the paragraph:

12 "Loss of such status could
13 potentially be avoided if Manitoba
14 Hydro immediately take steps such as
15 increasing rates to increase its
16 equity position. On the other hand,
17 support -- self-supporting status
18 could be affected at equity ratios
19 above zero in the event that its
20 ongoing financial trajectory appears
21 to be negative, and there are no
22 steps being taken to correct this.
23 The above discussion is not meant to
24 suggest that reaching a zero equity
25 ratio is possible without

1 considerable risk to Manitoba
2 Hydro's or the Province's financial
3 standing. The discussion also
4 emphasizes the fact that the exact
5 point at which self-sustaining
6 status could be lost is not clear."

7 Do you see that?

8 MR. PATRICK BOWMAN: Yes.

9 MR. MATTHEW GHIKAS: And you'd agree
10 with me that that is important context with respect to
11 the KPMG quote that you included in your presentation?

12 MR. PATRICK BOWMAN: Yeah. As a
13 matter of fact, the quote that I put in the
14 presentations from page 7, and it has a similar type
15 of wording, where it describes that -- that we are --
16 the point at which rating agencies might deem Manitoba
17 Hydro and its debt to be no longer self-supporting is
18 not clear. It may not be clear when debt reaches a
19 level where it cannot be -- reasonably be expected to
20 be paid by ratepayers.

21 However, to create a working definition
22 of financial distress for the purposes of scenario
23 analysis, the following general approach was used, and
24 that leads into the quote. That's page 6 of the
25 report. So I -- I think it's a -- I -- I agree with

1 you, Mr. Ghikas. It is a -- a component of
2 understanding that anybody who takes a definition of -
3 - of self-supporting and puts their -- their neck out,
4 if you like, to say, This is what I mean, other
5 parties might mean something different.

6 MR. MATTHEW GHIKAS: Okay. Maybe we
7 can go to slide 27 of your presentation, Mr. Bowman,
8 please. So there, you've included the KPMG definition
9 there, and you've added your own commentary below:

10 "No prospect of either of these
11 outcomes occurring, much less both
12 of the -- at the same time."

13 Do you see that?

14 MR. PATRICK BOWMAN: Yes.

15 MR. MATTHEW GHIKAS: Would that be you
16 sticking your neck out with respect to the KPMG
17 definition here?

18 MR. PATRICK BOWMAN: I don't believe
19 it's a question of necks, Mr. Ghikas. I'm happy to go
20 through either point, if you like. There's two (2)
21 tests they put out. One (1) is -- is what happens if
22 you reach a position of near zero retained earnings,
23 and the other is what happens if rates increase such
24 that Manitoba can no longer be considered cost
25 competitive, and I think there's an analytical basis

1 for saying neither of those should be assumed from any
2 of the financial forecasts we've seen, much less both
3 of them occurring.

4 And if you want me to go through the --
5 the tests that would apply to it, I would consider
6 that. I'm happy to do that.

7 MR. MATTHEW GHIKAS: Well, the point -
8 - the point I was making to you, sir, is that if you
9 also read the passage on page 115, there is -- it's --
10 it's by no means as equivocal as the path -- the
11 paragraph that you've quoted, is it?

12 MR. PATRICK BOWMAN: I don't think the
13 paragraph is a -- is inappropriately quoted alone. My
14 -- as I said, the definitions all have some
15 variability in them, and KPMG puts on certain caveats.
16 I'm not sure I could have fit more on the slide, but
17 it's not at all inconsistent with saying that someone
18 else might use a somewhat different definition.

19 And -- but within the bounds of what
20 KPMG has -- has set, I would suggest we are -- there's
21 two (2) critical things. One (1) is we are miles
22 away, and the second is that I completely agree with
23 KPMG that it's about more than measuring a financial
24 metric. It's about measuring the competitiveness of
25 your rates, because that is the fundamental power and

1 tool this Board has, is that when you get into a
2 pickle, if you get into a pickle, if you're heading
3 towards a pickle, this Board has the power to raise
4 rates as long as it's not fundamentally undermining
5 the economy. And that power resides with this Board,
6 and it will twelve (12) months from now when we do the
7 next review.

8 I don't see that written in very often
9 into the -- the other pieces you -- you note other
10 than by saying, Oh yeah, Manitoba Hydro has low rates.
11 But KPMG actually talked specifically about this
12 competitiveness aspect.

13 MR. MATTHEW GHIKAS: If we can turn,
14 please, to -- this is MIPUG's opening statement. This
15 is Exhibit -- MIPUG Exhibit 22, slide -- or it's page
16 14, I think. Or -- or section 4.3.

17 I wasn't sure, Mr. Bowman, are -- are
18 you the author of this, or is MIPUG the author of
19 this?

20 MR. PATRICK BOWMAN: It's Mr.
21 Hacaault's document.

22 MR. MATTHEW GHIKAS: Okay. So there's
23 a statement there about Manitoba Hydro making clear
24 that the most important criteria for the credit rating
25 is a sound, predictable, and consistent regulatory and

1 rate-setting process. And there's a reference to
2 MIPUG/Manitoba Hydro-1-8, yet the proposals seek to
3 fundamentally undermine rate setting consistency.

4 MIPUG/MH-1-8 was the IR we were just
5 looking that appended the S&P methodology, right?

6 MR. PATRICK BOWMAN: Right.

7 MR. MATTHEW GHIKAS: And could you
8 point me to anywhere in Manitoba Hydro's response in
9 that IR where it says that the most important criteria
10 for the credit rating is the sound, predictable, and
11 consistent regulatory and rate-setting process?

12 MR. PATRICK BOWMAN: Mr. Ghikas, I'm -
13 - I would point you to things we've already looked at,
14 which that -- that Manitoba Hydro currently fails the
15 financial and numerical metrics. When you move down
16 from there, you see that the weights become placed on
17 things like the jurisdiction you're operating in and
18 the industry. We are not a tech company. We're not
19 in Ghana. We're in -- in Canada, and with a utility,
20 so those -- those fall away, as Hydro describes there.
21 And so you're left with the assessment, which is
22 fundamentally based on your regulator and its ability
23 to act.

24 Central to that is not -- to -- to me,
25 central to that would be, can the regulator

1 practically act to raise rates, because your rates are
2 actually low enough to be able to -- to have some
3 action if -- if you run into a pickle. If I'm sitting
4 in the Yukon, and my rates are already at a rate that
5 -- that makes it very difficult to move, if I'm
6 sitting in Northwest Territories, my rates are a
7 dollar a kilowatt hour in some of the -- the
8 communities, I can have a real problem thinking that I
9 can go ahead and raise rates to sock -- to -- to get
10 the Utility out of a problem if it gets into one.

11 But that's not where we're sitting in
12 Manitoba. What that IR says, though, and it's the --
13 actually, the exact bullet you took me to is that
14 there's a concern about politically influenced or
15 unstable regimes tying the hands of the regulator, in
16 my words. And I'm -- my suggestion is that the
17 regulator provide inconsistency (sic), and stability,
18 and pushing back on that will help address the exact
19 type of things that -- that Mr. Forrest went through
20 this morning about why the regulator was put in place,
21 regimes which change from high rate increases to rate
22 freezes without anybody actually assessing Hydro's
23 revenue requirement.

24 And if I'm a lender, I would get, you
25 know, I -- I think it would be perhaps a -- a little

1 shortsighted to say, I'm going to get excited about a
2 regime that raises rates when it's -- it can't set out
3 a cont -- a -- a consistency to a plan, knowing that
4 the next time around, they might decide to freeze
5 rates for whatever political reason. We don't have
6 that. We have a nice and stable, predictable
7 regulatory regime.

8

9

(BRIEF PAUSE)

10

11 MR. MATTHEW GHIKAS: So if we can go
12 to in the book of documents, Tab 7, please. This is a
13 Moody's document that was discussed in the -- with --
14 with Mr. Colaiacovo. And did you have a chance to
15 look at this?

16 MR. PATRICK BOWMAN: Not in any great
17 depth, but we -- we can proceed. I'll let you know if
18 we go beyond anything that I'm comfortable.

19 MR. MATTHEW GHIKAS: Okay. All right.
20 Now, this is for US utilities, but it's a group of
21 utilities that Mr. Colaiacovo drew our attention to.
22 And I just wanted to draw your attention to something
23 on page 8 of it, which deals with this issue we've
24 been discussing here, Why it Matters. If we go --
25 just factor 2, Why it Matters. This will be -- sorry,

1 it's a -- you've got the hard copy, page 8. There we
2 go.

3 So under factor 2, willingness and
4 ability to recover costs with sound financial metrics,
5 25 percent weight, Why it Matters. So Moody's is
6 saying:

7 "Willingness to use the independent
8 and local ratesetting authority
9 guided by sound bond covenants and
10 governance is extremely important
11 consideration and heavily weighted
12 rating factor. Unregulated public
13 power utilities may have the ability
14 to raise rates, but there can be
15 meaningful differences in their
16 willingness to do so for a variety
17 of public policy reasons that may
18 have the effect of placing ratepayer
19 concerns ahead of sound financial
20 policy. Regulated public power
21 utilities must have both the
22 willingness to seek rate increases
23 and the ability to obtain the
24 necessary regulatory approvals, in
25 either case, implementing rate

1 increases in a timely fashion in
2 order to maintain sound financial
3 credit strength has been a
4 fundamental credit strength for most
5 issues -- issuers in this sector.
6 Credit risk increases in the absence
7 of stability and certainty that
8 maintenance of a financial buffer
9 provides in mitigating the impact of
10 moderate credit stress events.
11 Political risk, or when applicable,
12 lack of regulatory support can
13 result in unwillingness or
14 instability to establish sufficient
15 rates to maintain sound financial
16 metrics. Without sound financial
17 ratesetting that is predictable and
18 timely, debt service coverage ratios
19 or liquidity are likely to be
20 compromised. This factor may be a
21 leading indicator of the direction
22 of future financial performance for
23 US public power utility with
24 generation ownership exposure."
25 So stopping there, Mr. Bowman, you'd

1 agree with me that Moody's seems to be concerned with
2 predictability of ratesetting in the sense that there
3 is a predictable willingness of the regulator and
4 Utility to raise rates when it's required for sound
5 financial policy?

6 MR. PATRICK BOWMAN: Yeah, and I think
7 it's -- it's exactly the thing that we've just been
8 talking about.

9 MR. MATTHEW GHIKAS: Right,
10 predictability, and not placing ratepayer concerns
11 ahead of sound financial policy?

12 MR. PATRICK BOWMAN: Mr. Ghikas,
13 that's -- that's the quote. I think the -- the key
14 point and -- that I was emphasizing is that
15 predictability would mean that when you head into a
16 financial plan that has a fifty (50) day hearing, and
17 is signed off by your regulator, and is signed off by
18 your minister, and you move forward to develop
19 projects, and your costs are still straight down the
20 middle of what the projects were going to be, and your
21 -- if anything, your interest rates are offsetting
22 anything that's going on with your -- your capital
23 costs coming in and -- and imposing a new regime
24 because -- because you -- you've decided for some
25 reason that -- that the world looks different than

1 that in the last guy's who came in and vehemently said
2 that these credit-rating agencies understood exactly
3 what they were doing, and they were entirely behind us
4 when we were going to borrow \$35 billion, much less
5 25.

6 That, to me, is instability and I don't
7 understand how -- how I would read through these
8 sections and not see that instability goes into --
9 effectively into both -- both directions. Just
10 because this time is changing the rates in a direction
11 that is favourable to your ability to cover your
12 bonds, if a jurisdiction doesn't have a commitment to
13 a set of principles, there's no saying the next time,
14 it doesn't change in a way that's unfavourable to your
15 ability to recover your bonds.

16 MR. MATTHEW GHIKAS: Okay. If we can
17 turn to your report, again, sir, page 3-1.

18

19 (BRIEF PAUSE)

20

21 MR. MATTHEW GHIKAS: And...

22

23 (BRIEF PAUSE)

24

25 MR. MATTHEW GHIKAS: Sorry, you'll

1 have to bear with me for one (1) sec, here. I've lost
2 my spot.

3

4 (BRIEF PAUSE)

5

6 MR. MATTHEW GHIKAS: Okay, sorry.

7 It's on page 3-3.

8 MR. PATRICK BOWMAN: Yes.

9 MR. MATTHEW GHIKAS: Line -- line 22,
10 and you'll see there, there is a reference to
11 Bonbright. And this is again in -- well, in line 12,
12 you're -- you're again talking about the critical
13 concepts of rate stability, and you're saying, for
14 example, Bonbright notes that:

15 "Pricing methods should not deprive
16 customers of those expectations of
17 reasonable continuity of rates on
18 which they must rely in order to
19 make rational advanced preparations
20 for the use of services."

21 Do you see that?

22 MR. PATRICK BOWMAN: I -- I believe
23 you were quoting from page 3-2. It's -- it appears I
24 actually have that quote in twice. I apologize.

25 MR. MATTHEW GHIKAS: Do you? Okay.

1 MR. PATRICK BOWMAN: Yeah. It's --
2 it's also on the bottom of page 3-3, but it's the -- I
3 think you were quoting from the middle of 3-2.

4 MR. MATTHEW GHIKAS: That's right,
5 yes. Yes, thank you. Right. Okay. I've managed to
6 confuse everyone. Yes, page 3-2, line 12 to 16.
7 Thank you.

8 MR. PATRICK BOWMAN: I apologize.
9 It's unlike me to be redundant.

10 MR. MATTHEW GHIKAS: No, it's --
11 that's okay. So just in terms of the comment that
12 you've -- that you've made in lines 12 to 14 there
13 about the critical concepts of rate stability, those
14 are your words and not Bonbright's, first of all,
15 right?

16 MR. PATRICK BOWMAN: Bonbright's
17 quoted in quotes. The part you're talking to is -- is
18 my words.

19 MR. MATTHEW GHIKAS: Okay. And you'd
20 agree with me that Bonbright isn't -- when you're --
21 when you're talking about that quote, he's not talking
22 about that a regulator should look beyond the test
23 period only to take into account rate stability,
24 right?

25 MR. PATRICK BOWMAN: You know, I -- I

1 can't say what was on the pages adjacent to that, but
2 I -- I would emphasize what was said earlier about Mr.
3 Bonbright's work, that the -- the vast majority of the
4 Utility -- economic and Utility theory in the book is
5 about private sector Utilities who need to have a -- a
6 regulated test year concept, a revenue requirement
7 that's -- that's fixed, and that they earn a return in
8 that year. So it's -- it -- I -- I don't know that it
9 is -- this section would be understood to very well
10 apply to -- to Manitoba Hydro, looking beyond the test
11 years.

12 MR. MATTHEW GHIKAS: So -- but you've
13 invoked the Bible of Bonbright here in support of the
14 principle of rate stability, and you're -- correct?

15 MR. PATRICK BOWMAN: I -- I think it -
16 - it well sets out that it's a reasonable expectation
17 of customers for continuity of rates. I -- I don't
18 disagree with the principal at all.

19 MR. MATTHEW GHIKAS: And you're --
20 you're advancing that principle, sir, I'd suggest to
21 you, in the context of suggesting that changing rates
22 from a 3.95 percent rate trajectory to something
23 greater than 3.95 percent violates this principle that
24 Bonbright is espousing, correct?

25 MR. PATRICK BOWMAN: I -- sorry, I

1 think you've overstated the -- the submission. This
2 is in a section on the core regulatory principles we -
3 - I applied. It's -- it's actually a section that's
4 been repeated from previous hearings, and is -- I -- I
5 update each time to make sure it -- it addresses the -
6 - the hearing at hand. But it's not to suggest that
7 three point nine-five (3.95) couldn't be something
8 different.

9 It's to suggest that ratepayers who go
10 through a -- a NFAT review and -- and understand that
11 Hydro's proceeding with a set of developments premised
12 on the idea that -- that Hydro is going to be patient
13 have the rug pulled out from underneath them when
14 Hydro becomes impatient, and that -- that is, in -- in
15 my submission, inconsistent with this principle that,
16 as I said, Bonbright echoed quite well.

17 MR. MATTHEW GHIKAS: Okay. So you've
18 cited the Bonbright there in footnote 16, so I
19 included it in our book of documents, and maybe we
20 could go there to Tab 1 of the book of documents,
21 Manitoba Hydro Exhibit 116-2, please.

22 And I think if you go to page -- of
23 Bonbright's page 396, which is on page 11 of 161 of
24 the -- I apologize for the way it was copied.

25

1 (BRIEF PAUSE)

2

3 MR. MATTHEW GHIKAS: So on 396,
4 towards the bottom there, you'll see -- just at the
5 very bottom of the page, you'll see a quote that
6 you've referred to:

7 "In short, the price elasticity of
8 demand for utility services can be
9 expected to be much greater in the
10 fairly long run than in any very
11 short period of time, but if utility
12 rates were to be made as volatile as
13 would be required by the mandate of
14 conformity to short run marginal
15 costs, they would deprive customers
16 of those expectations of reasonable
17 continuity of rates and rate
18 relationships on which they must
19 rely in order to make rational
20 advanced preparations for the use of
21 services."

22 Do you see that?

23 MR. PATRICK BOWMAN: Yes, as I -- yes.

24 MR. MATTHEW GHIKAS: And you'd agree
25 with me that the context of that quote is discussing

1 conformity to short run marginal costs?

2 MR. PATRICK BOWMAN: Yes, Mr. Ghikas.

3 As I noted, I accepted the principal. I wasn't
4 necessarily dealing with the -- the particular issue
5 to which Mr. Bonbright was applying it.

6 MR. MATTHEW GHIKAS: Then can we
7 agree, if you go back one (1) page, that this is from
8 a section on the philosophy of marginal cost pricing?

9 MR. PATRICK BOWMAN: Yes.

10 MR. MATTHEW GHIKAS: And it's a
11 critique of the prosal -- proposal to fix rates on
12 short run marginal costs?

13 MR. PATRICK BOWMAN: It -- yes,
14 because of the issues with rate stability, which are -
15 - violated our rate design criteria.

16 MR. MATTHEW GHIKAS: And you'd agree
17 that on 395, He's referring to the -- his -- his
18 response as being a -- a rebuttal to a, "far more
19 drastic proposal for setting rates"?

20 MR. PATRICK BOWMAN: I'll accept that.

21 MR. MATTHEW GHIKAS: Okay. And on
22 three (3) -- if you go to 387, last full paragraph on
23 387 that starts with "impressed." So this is on the
24 beginning of the marginal cost pricing chapter, and he
25 says:

1 "Impressed with both the theoretical
2 and practical difficulties of any
3 attempt to secure a sound structure
4 of individual rates subject to the
5 constraint that rates as a whole
6 must cover costs as a whole, one (1)
7 important group of modern economists
8 has proposed to seek riddance from
9 this constraint, let all rates be
10 set at marginal costs, but if the
11 resulting revenue should fall short
12 of meeting total financial
13 requirements, let the deficiency be
14 made good by a tax finance subsidy."

15 Now, I'm just stopping there for a
16 moment. You're not recommending a departure from cost
17 of service regulation?

18 MR. PATRICK BOWMAN: No. No, Mr.
19 Ghikas, I'm -- I -- but I -- I will note, I'm
20 impressed you found the 1961 edition. And I'm -- it's
21 -- it's amusing to read about the time when marginal
22 costs were viewed as being much lower than average
23 costs.

24 MR. MATTHEW GHIKAS: And you're not
25 advocating that taxpayers should support Manitoba

1 Hydro, right?

2 MR. PATRICK BOWMAN: No, no. I'm --
3 I'm just advocating that revenue stability is a
4 relevant rate criteria, and this was a -- a well-said
5 reason for it. That -- that's all the quote is meant
6 to say. I think you'll find revenue stability
7 mentioned a few times in his -- the book.

8 MR. MATTHEW GHIKAS: Yeah, and I -- I
9 -- let's go to something a little more timely, which
10 is the mod -- more modern version of the Bonbright,
11 the 1988 version, if I can call it more modern, 1988
12 version, which is at Tab 2 of the book of documents.
13 And we'll just leap to the -- the same quote appears.
14 We don't need to go there. It appears in the same
15 section, and discussion. I more want to just switch
16 to the attributes of a sound rate structure, which
17 appears on page 382.

18

19 (BRIEF PAUSE)

20

21 MR. MATTHEW GHIKAS: Right. So you'll
22 see on 382 of Bonbright's excerpt, and you'll see the
23 high -- the heading there, 'Attributes of a Sound Rate
24 Structure'?

25 MR. PATRICK BOWMAN: Yes.

1 MR. MATTHEW GHIKAS: Okay. And over
2 on 383, you'll see the Bonbright principles listed?

3 MR. PATRICK BOWMAN: Yes.

4 MR. MATTHEW GHIKAS: And those are the
5 same principles that I -- that I think MPA included in
6 -- in their report as an appendix, right?

7 MR. PATRICK BOWMAN: It -- it could
8 be. It's -- this is the ten (10) principle version.
9 There is an eight (8) principle version, it -- but,
10 yes, in general, yes.

11 MR. MATTHEW GHIKAS: Okay. And you'll
12 see the list at -- prefaced at the top of the page,
13 saying that they're not in any order of importance,
14 right?

15 MR. PATRICK BOWMAN: Yes.

16 MR. MATTHEW GHIKAS: And then you'll
17 see at page 384 at the bottom, you know, there's a
18 heading, the 'Primary Criteria Are Based on the
19 Objectives of Regulation'. Do you see that?

20 MR. PATRICK BOWMAN: Yes.

21 MR. MATTHEW GHIKAS: And over on 385,
22 you can see that the authors say rate -- just above
23 where the page breaks in the middle, there, they say:

24 "Based on the objectives -- based on
25 those objectives, we propose the

1 following three (3) primary criteria
2 by which to judge the soundness and
3 desirability of a rate structure for
4 public utility enterprises."

5 Do you see that?

6 MR. PATRICK BOWMAN: Yes.

7 MR. MATTHEW GHIKAS: Okay. And rate
8 stability, just confirm for me, isn't among those?

9 MR. PATRICK BOWMAN: No.

10 MR. MATTHEW GHIKAS: Okay. And if you
11 go over to page 387, you'll see the heading that says
12 Stability and Predictability of Rates, A Secondary
13 Criterion.

14 Do you see that?

15 MR. PATRICK BOWMAN: Yes.

16 MR. MATTHEW GHIKAS: Okay. Now one
17 (1) final point on -- on this, in your report on page
18 3-2, where you're referring to the critical concepts
19 of rate stability and you quote Bonbright that we were
20 -- we were looking at.

21 You've -- you've placed that discussion
22 in the context of discussing revenue requirements in -
23 - in section 3.2, haven't you?

24 MR. PATRICK BOWMAN: Well, it's in the
25 context discussing revenue requirements, but -- but as

1 I'm -- as I'm sort of putting away this document, let
2 me note that the quotes we were talking about was --
3 was about continuity. In that regard, there's
4 comments about both predictability and stability. And
5 stability is sometimes put as a secondary one and
6 people are cautious about using it because to certain
7 people it means the rate should never change and
8 predictability is actually more of a phrase that --
9 that we -- we've tended to use with the members.

10 But perhaps I've -- I've erred towards
11 stability. I'm certain they're not advocating rates
12 don't change. But in the context of this, yes, the
13 quote is under a section called Revenue Requirement.

14 MR. MATTHEW GHIKAS: Okay. So if you
15 can go back to the Bonbright bit that we were looking
16 at and just go back to 373 for a moment.

17 Under where it says Part 4, the rate
18 structure. And you'll see just under the quote it
19 says:

20 "Thus the chapters of part 3 were
21 concerned with the rate level
22 determination under the standard of
23 fair return. Now, we turn to
24 discussion of the far more complex
25 problems involved in establishing an

1 appropriate rate structure."

2 Do you see that?

3 MR. PATRICK BOWMAN: Yes.

4 MR. MATTHEW GHIKAS: So the principles
5 that we were looking at, sir, they -- those are in
6 part 4 of Bonbright on the rate structure?

7 MR. PATRICK BOWMAN: They are.

8 MR. MATTHEW GHIKAS: And they're not
9 in the sections dealing with the health of the Utility
10 under the fair return standard and recovery of costs?

11 MR. PATRICK BOWMAN: Right, because
12 we're -- we're not talking about a fair return
13 standard being applied in Manitoba. It has no
14 relevance. That's the exact think we were talking
15 about for Utilities that have to set a test year
16 revenue requirement to recover a particular exact
17 dollar amount in a given year. We don't do that in
18 Manitoba.

19 MR. MATTHEW GHIKAS: The ongoing
20 health of the Utility, though, continues to be
21 relevant, irrespective of whether it's a Crown owned
22 Utility, doesn't it?

23 MR. PATRICK BOWMAN: Mr. Ghikas, I
24 think I've said that three (3) or four (4) times.
25 It's critical to customers. It may be critical to

1 Hydro inn -- in your client's submission, but I'm not
2 disagreeing because it's -- it's critical to customers
3 being served by a Utility.

4 MR. MATTHEW GHIKAS: Okay, if we could
5 go back to -- we can put that aside. Bonbright is
6 thankfully and mercifully done for today.

7 Back to page 1.3 of your report, Mr.
8 Bowman, please. And this is 1.3 -- sorry, page 1-3
9 starting at 31, line 31. And you'll see there's a
10 discussion about protecting the province of Manitoba.

11 And you've referred here to the fact --
12 you referred here to bond spreads. Do you see that?

13 MR. PATRICK BOWMAN: I do.

14 MR. MATTHEW GHIKAS: Bond spreads are
15 a function of events that go well beyond events that
16 relate to the province of Manitoba, aren't they?

17 MR. PATRICK BOWMAN: Yes. Although
18 here we're talking about the spread -- Manitoba's
19 spreads over other provinces. So the -- and -- and
20 Mr. Colaiacovo went over the issue of Manitoba spreads
21 in relation to Canada. So those are Manitoba driven
22 factors.

23 MR. MATTHEW GHIKAS: Right and --

24 MR. PATRICK BOWMAN: Not only Manitoba
25 driven factors, let me correct --

1 MR. MATTHEW GHIKAS: Well, if you're
2 measuring your spreads against something else,
3 wouldn't factors affecting the other province also be
4 relevant?

5 MR. PATRICK BOWMAN: Yes.

6 MR. MATTHEW GHIKAS: And general
7 macroeconomic factors as well, correct?

8 MR. PATRICK BOWMAN: Assuming they
9 affect the province's differential, yes.

10 MR. MATTHEW GHIKAS: And it's
11 impossible to isolate the impacts on a single factor,
12 isn't it?

13 MR. PATRICK BOWMAN: It's impossible
14 to isolate any of the factors in terms of what people
15 will lend. That's -- that's why the -- it's such a
16 black box in terms of being able to say this or that
17 will cause this or that outcome.

18 MR. MATTHEW GHIKAS: Now, you've also
19 referenced in that passage there, the fact that
20 government charges a guarantee fee.

21 You'd agree with me, I assume Mr.
22 Bowman, that the fact that the government charges a
23 guarantee fee isn't a license for Manitoba Hydro to
24 act in ways that would harm the province's credit
25 rating?

1 MR. PATRICK BOWMAN: I think there are
2 a lot of things that stand in the way of Manitoba
3 Hydro acting in ways that would be imprudent but I --
4 I don't think the guarantee fee is -- should be
5 ignored when you're considering Hydro and -- and the
6 province as a -- in terms of the -- the relevance of
7 Hydro's debt.

8 MR. MATTHEW GHIKAS: And what I asked
9 you, Mr. Bowman, was whether the fact that government
10 charges a guarantee fee is a license for Manitoba
11 Hydro to act in ways that would harm its credit
12 rating.

13 Is that -- is that how you view the
14 guarantee that because the government has been paid
15 that they shouldn't be concerned about what impact
16 Manitoba Hydro might or might not have on their credit
17 rating?

18 MR. PATRICK BOWMAN: Mr. Ghikas, maybe
19 I'm getting caught up on the idea of -- of licensed.
20 The -- Hydro's building a dam that the government
21 approved at building; that's the reason the government
22 has control in decisions over Hydro's major capital
23 spending in the Act. Hydro can't go off and sign
24 major export contracts or build major new generation
25 without the government signing off on it because it's

1 going to be a future commitment on the government's
2 borrowings. That's why they give the approvals. It's
3 unfolding according to the approvals.

4 So this -- I -- I guess license sort of
5 implies that the teenager with the car keys or
6 something. It's -- I'm sorry, if I get stuck up on a
7 word.

8 MR. MATTHEW GHIKAS: Okay. Well,
9 we'll leave that one.

10

11 (BRIEF PAUSE)

12

13 MR. MATTHEW GHIKAS: Now, you'd agree
14 with me that in 2017 Manitoba Hydro's debt would
15 represent 39 percent of the province's total debt,
16 subject to check?

17 I'm getting that from the debt
18 management strategy in the application, appendix 3.5,
19 top of page 5. We don't have to go there if you don't
20 want to but I'm just asking --

21 MR. PATRICK BOWMAN: Can you give me
22 the year you were referencing again?

23 MR. MATTHEW GHIKAS: 2017.

24 MR. PATRICK BOWMAN: 2017. So I --
25 I'm afraid I -- I have a reference if you go to the

1 background papers which was MIPUG -- I apologize, I
2 have the reference. Yeah, page 89, which is probably
3 about the 7th or 8th page -- maybe the 10th page.
4 Down. Can you see the page numbers at the bottom? I
5 think it's down two (2) more pages, maybe three (3).
6 One more, that one.

7 This -- this was the -- the -- the data
8 that we had. It was from Boston Consulting, and it
9 shows Manitoba Hydro's debt as a percentage of the
10 total Manitoba government debt graphed on the right-
11 hand scale. And this one goes to 2015. And at that
12 time, Manitoba Hydro was 40 percent, and you can see
13 the history going back to 1982.

14 And what I say the -- the green for
15 those who see colours differently, the -- the line
16 that has circles starts at 63 percent and declines to
17 40 and it's graphed on the right-hand axis.

18 MR. MATTHEW GHIKAS: And after --
19 inclusive of the borrowings to complete the in-flight
20 major capital projects, Manitoba Hydro's debt would
21 almost double the debt of the province of Manitoba,
22 right? It goes off to the right of the chart, but
23 it's -- it's pushing 50 percent.

24 MR. PATRICK BOWMAN: Actually if you
25 go to the next page, you'll see the other graph that

1 Boston produced going out to 2023. I -- I assume
2 that's what you mean by in-flight capital projects.

3 And you'll see the green debt is
4 Manitoba Hydro's and the blue debt is the provincial
5 net debt and they -- there was no numbers provided but
6 they remained at approximately equal. So I -- if
7 you'll accept, I'll call it 50-50.

8 MR. MATTHEW GHIKAS: All right. I
9 will accept. Okay, if we can go to page 3-7 of your
10 report -- I should ask, Mr. Chairman, were you
11 anticipating -- I -- I understood we were going til
12 5:30, but I wanted to check and see whether you wanted
13 to break at some point.

14 THE CHAIRPERSON: Yes, you know what,
15 we'll take a ten (10) minute break right now.

16

17 --- Upon recessing at 4:28 p.m.

18 --- Upon resuming at 4:42 p.m.

19

20 THE CHAIRPERSON: Okay. Mr.
21 Ghikas...?

22

23 (BRIEF PAUSE)

24

25 THE CHAIRPERSON: Okay.

1 MR. MATTHEW GHIKAS: Thank -- thank
2 you, Mr. Chairman.

3

4 CONTINUED BY MR. MATTHEW GHIKAS:

5 MR. MATTHEW GHIKAS: Mr. Bowman, if we
6 can start back on page 3-7 of your report. The -- the
7 comment that I am looking at is down in lines 13 and
8 14.

9 And you've made the comment that many
10 Crown utilities, both electrical and other, have
11 operated for long perio -- periods of time. Sorry,
12 for long periods, with little or no equity.

13 Do you see that there?

14 MR. PATRICK BOWMAN: Yes.

15 MR. MATTHEW GHIKAS: Actually, before
16 I turn to that one, maybe I'll just go up a little bit
17 more. And you say lenders -- this is -- right, line
18 10. You say lenders do not appear to explicitly
19 require an equity cushion.

20 Do you see that?

21 MR. PATRICK BOWMAN: Yes.

22 MR. MATTHEW GHIKAS: And you didn't
23 talk with any lenders when you made that statement,
24 did you, sir?

25 MR. PATRICK BOWMAN: No.

1 MR. MATTHEW GHIKAS: Okay.

2 MR. PATRICK BOWMAN: No, I went by the
3 evidence that's available to us.

4 MR. MATTHEW GHIKAS: Okay. And all of
5 the agency reports that are on the record for Manitoba
6 Hydro report on the debt equity ratio, don't they?

7 MR. PATRICK BOWMAN: Well, they req --
8 Mr. Ghikas, I -- I don't want this section to be
9 misread. You'll note the discussion here is about
10 reserves and the extent to which equity of Manitoba
11 Hydro is different than the way that anybody would
12 normally understand a shareholder's investment in a
13 Corporation, which is the normal definition of the
14 equity.

15 The -- Manitoba Hydro's, as we note --
16 is comes from building up of reserves. There was a
17 time that Manitoba Hydro didn't even record something
18 called retained earnings. They had two (2) reserves,
19 one (1) called self-insurance and one (1) rate
20 stabilization, if I remember correctly.

21 During all those years, Manitoba Hydro
22 -- pard -- I -- I'm not aware of the of anything in
23 there suggesting that the -- the magical word of
24 equity, or the failure of a shareholder to put up
25 money was -- was relevant. And it's similar to the --

1 the issues that Mr. Osler was reviewing this morning
2 about the -- the reports that were done on Manitoba
3 Hydro in the -- in the early 1990s by people like
4 Deloitte's (sic) and Royal Bank, as I recall, that was
5 reviewing Hydro in relation to many other utilities.
6 New Brunswick Power had negative retained earnings.
7 Many of the other, you know, cost-based utilities had
8 effectively only customer funded reserve.

9 So that's the concept I'm talking
10 about.

11 MR. MATTHEW GHIKAS: Okay. So we --
12 so you're not saying there in line 10 that it would be
13 okay for Manitoba Hydro to have zero reserves?

14 MR. PATRICK BOWMAN: No, I'm saying
15 that in the context of -- of equity, meaning the
16 shareholders put money and the shareholders are the
17 one who's going to lose their money first before I --
18 you know, before I do, which is the way a bondholder
19 looks at the world. I'm saying that in that context,
20 it's not critical that there's some shareholder equity
21 or some investment on behalf of a shareholder.

22 MR. MATTHEW GHIKAS: Well, you seem to
23 be putting a lot of weight when -- your comments just
24 now on -- on the word 'equity'. But you'll see in
25 line 13 and 14, you're talking about Crown utilities,

1 and you're talking about them as having no equity, so
2 I'm -- I'm confused.

3 Are you talking about -- are you
4 drawing a distinction between equity and reserves
5 here?

6 MR. PATRICK BOWMAN: Well, I think the
7 distinction -- I think there's two (2) concepts here.
8 One (1) is -- is when we use the word 'equity' in
9 respect of Manitoba Hydro, is it the same thing as
10 other people mean in terms of equity; like a
11 shareholders investment. So there's that -- there's
12 that distinction.

13 And -- and I, if recall correctly, the
14 section I go through a bit more in the theory level --
15 I'm not sure I spent as much time on the -- on the
16 Manitoba Hydro Act level, but the concept that -- that
17 I was -- suggested we had agreed with Mr. Colaiacovo
18 on, was -- was that very point. The second is, if you
19 now move to this idea that a utility can have -- can
20 have reserves not equity, whether you call it equ --
21 or -- or, you know, whether the moniker 'equity' gets
22 added to it, but it doesn't mean equity in a normal
23 shareholder investment sense, the question of whether
24 it can be very low as a percentage of the assets, I
25 think is -- is a second issue, and it's similarly

1 addressed there.

2 And -- and again, there have been
3 utilities, including owned by Crowns, and, like I
4 said, Mr. -- Mr. Forrest or Mr. Osler will be happy to
5 go over some of this with you as well 'cause they
6 spent more time in those old reports than I did. But
7 even to this day, some, who -- operate with very low
8 levels of equity, of very low level of reserves, if we
9 want to not get caught up in that definition, well
10 below what you'd ever look for private utility, well
11 below what you'd ever look for -- for, you know, a
12 self -- or getting their own credit rating without the
13 benefit of the government, for example.

14 MR. MATTHEW GHIKAS: Okay. So I do
15 want to put aside the distinction between equity as --
16 as in a shareholder paying it in and reserves in this
17 case.

18 So what words would you prefer that I
19 refer to in the case of Manitoba Hydro?

20 MR. PATRICK BOWMAN: I -- I -- as long
21 we understand which -- which -- what we're doing, it
22 doesn't matter me. But if you want to call them
23 reserves, that's fine.

24 MR. MATTHEW GHIKAS: Okay. So you say
25 at line 11, evidence indicates that lenders more so

1 require a principled and independent rate regulator, a
2 rate regime that appears to -- appears able to absorb
3 some degree of higher costs in the event of adverse
4 events arise and the provincial government guarantee.

5 In terms of the ability to absorb some
6 higher -- some degree of higher costs, you'd agree
7 with me that the only way to do that is if there are
8 sufficient rates to produce positive net income in the
9 normal course?

10 MR. PATRICK BOWMAN: I -- I take no
11 issue with the two (2) statements. I'm not sure one
12 (1) follows from the other. Absorbing hunt -- hut --
13 some degree of higher cost means that there's
14 ratepayers who -- to which you can impose rate
15 increases.

16 I'm just drawing a distinction there
17 between other places that -- that we've worked or that
18 we've watched in this industry, who've had their rates
19 go so high and so fast that you couldn't consider
20 putting more rate increases on people; there's no way
21 you could generate more revenue. As a matter of fact,
22 the governments are stepping into to subsidize people
23 because they simply can't handle the level of rate
24 increases. That's different.

25 If -- you -- if you have -- want to

1 take an outside view of a utility that's having to
2 step in to protect -- protect customers from -- from
3 dramatic rate increases, which has happened in the
4 natural gas utility here, it has happened in other
5 examples, that -- I -- I think that would cause real
6 concern for anybody looking, including a lender. But
7 that's not -- this -- this is saying that -- that if -
8 - if you -- as long as you can get rate increases and
9 you have headroom, in terms of the rates that are
10 there now, that is a valuable component of assessing a
11 utility's strength.

12 MR. MATTHEW GHIKAS: But another way
13 you can absorb higher costs in the event of distress,
14 is if rates are sufficient to produce positive net
15 income, right?

16 MR. PATRICK BOWMAN: Well, if rates --
17 the --

18 MR. MATTHEW GHIKAS: The -- the
19 positive net income would be the buffer, right?

20 MR. PATRICK BOWMAN: Oh, your
21 suggestion is -- is that if you have rates high enough
22 that your net income is large, then if adverse events
23 happen, all you do is end up with lower net income.
24 Is that --

25 MR. MATTHEW GHIKAS: Correct.

1 MR. PATRICK BOWMAN: -- your
2 suggestion? Oh, sure, yeah, that -- I -- I'm -- I
3 apologize. I misunderstood.

4 MR. MATTHEW GHIKAS: Whether Manitoba
5 Hydro has \$1 billion or \$5 billion in reserves, if
6 there's no net income in the normal course built into
7 rates, the only recourse, in the event of financial
8 distress, is to lose money or borrow, right? Lose
9 money and borrow.

10 MR. PATRICK BOWMAN: Yeah, I was going
11 to say we -- we've mixed a balance sheet, a cash-flow
12 statement, and an income statement in that one
13 question, so.

14 The issue is -- is if you don't have
15 the cash flow woul -- to pay your bills, you have to
16 borrow. We can --we can stick took a cash flow
17 statement in that sense, and it doesn't matter whether
18 you have any -- zero debt, or 100 percent debt, or
19 whether you have retained earnings at any given level.
20 If you don't have the -- the cash has to be balanced
21 every year.

22 MR. MATTHEW GHIKAS: Right. Now, in
23 terms of your reference to the many Crown utilities,
24 both electrical and other, that have operated for long
25 periods with little or no equity, first of all,

1 irrespective of whether there have been other entities
2 operating with little or no equity over time, doesn't
3 necessarily mean that's a good idea when it comes to
4 Manitoba Hydro, does it?

5 MR. PATRICK BOWMAN: I'm not
6 suggesting this statement is -- is setting out that
7 it's a good idea. I'm suggesting this statement is
8 setting out the fact that -- that it's possible. And,
9 as matter of fact, the very next line says it is clear
10 Manitoba Hydro requires relatively substantial
11 reserves.

12 MR. MATTHEW GHIKAS: And having no
13 equity -- just so we're on the same page -- that means
14 you've eroded all past equity with successive years of
15 negative net income, right?

16 MR. PATRICK BOWMAN: Not necessarily.
17 It might mean that you've just -- you know, just
18 develop your system based on borrowing. Like, it's
19 not this idea that you -- you have a bunch of equity
20 to star. You know, I -- I'd -- I -- I think I --

21 MR. MATTHEW GHIKAS: Well, may --
22 maybe we can -- maybe I can help you out here. So if
23 we -- if we've started out with equity, and we've gone
24 from a million dollars of if -- or let's say a billion
25 dollars of equity down to zero equity, the only way

1 that happens is if there have been successive years of
2 negative net income.

3 MR. PATRICK BOWMAN: Or -- or
4 dividends.

5 MR. MATTHEW GHIKAS: Of, sorry?

6 MR. PATRICK BOWMAN: Or dividends --

7 MR. MATTHEW GHIKAS: Right. And in
8 Manitoba Hydro's case, there -- there aren't
9 dividends, right?

10 MR. PATRICK BOWMAN: There -- there
11 was one (1) special payout that Mr. Forrest referenced
12 that was done by legislation in about 2000 to 2004, is
13 my recollection.

14 MR. MATTHEW GHIKAS: Okay. And, in
15 terms of non-Crown utilities -- so, not the Crown
16 corporations -- you would expect the regulated capital
17 structures of those entities would include between 35
18 and 50 percent equity, roughly, hey?

19 MR. BOB PETERS: In -- in terms of the
20 balance sheet that you see for the standalone utility,
21 yes. Now a lot of times that equity in the parent is
22 actually represented by debt. But -- but, yes, in the
23 balance sheet of the -- of the utility, that -- that's
24 within a range.

25 MR. MATTHEW GHIKAS: Right. And the -

1 - the regulators are all concerned with the standalone
2 utility, not what their parent is doing, correct?

3 MR. PATRICK BOWMAN: Generally, yes.

4 MR. MATTHEW GHIKAS: Now, are you
5 aware that Morrison Park set out financial information
6 for nine (9) government owned utilities in its -- in
7 an appendix to the report?

8 MR. PATRICK BOWMAN: I -- I would --
9 would've reviewed that when their evidence was first
10 filed. And I was here when I think they pro --
11 reproduced that on a slide.

12 MR. MATTHEW GHIKAS: Okay. Maybe we
13 can just to quickly go -- go to that. This is
14 Consumer Coalition Exhibit 17. And I'm on page 78.

15 Do you have a general familiarity with
16 the companies that are listed in the MPA report? The
17 Canadian ones.

18 MR. PATRICK BOWMAN: I have differing
19 levels of familiarity with them, but I would say I'm
20 generally familiar with all of them at some level.

21 MR. MATTHEW GHIKAS: Okay. If we go
22 to page 70, first of all, Mr. Colaiacovo has included
23 BC Hydro. And you'll see there that BC Hydro has a
24 standard debt-equity ratio of -- and this at bottom of
25 the page -- of the greater than 80 percent?

1 MR. PATRICK BOWMAN: Yeah, BC Hydro is
2 a different example of a Crown but yeah -- yes, it's -
3 - that's -- he uses the 80 percent level in that
4 table.

5 MR. MATTHEW GHIKAS: And -- and so BC
6 Hydro has more than -- than -- more equity than --
7 than Manitoba Hydro, right?

8 MR. PATRICK BOWMAN: Well, BC Hydro,
9 as -- as I noted is an entirely different structure.
10 In BC Hydro's case, the government at a certain point,
11 put in place rules that said that the -- the retained
12 earnings in BC Hydro, this is the government's equity.
13 They passed an act that said, we want to return on
14 this equity; by the way, we also want be paid the
15 taxes you would've paid if you had been a taxable
16 utility, and we want all of that going to the
17 government account. And on top of that, we have to
18 set up a dividend policy.

19 And it's really the dividend policy of
20 the government that is -- is the -- the type of target
21 that he's quoting here. It's -- it -- this is built
22 into the -- the policy about when BC Hydro is able to
23 pay dividends.

24 MR. MATTHEW GHIKAS: Okay. So BC
25 Hydro, though, we can agree, isn't one of the examples

1 of a Crown utility that's operated for a long period
2 with little or no equity? Certainly not today.

3 MR. PATRICK BOWMAN: No, no.

4 MR. MATTHEW GHIKAS: And if we go over
5 to page -- page 79 to EPCOR.

6 EPCOR is regulated by the Alberta
7 Utilities Commission, correct?

8 MR. PATRICK BOWMAN: It -- well, EPCOR
9 has many functions into -- to its business. It has
10 many different parts of operation. In aspects of its
11 business, it is related by the Utilities Commission.

12 MR. MATTHEW GHIKAS: Right. And that
13 the -- setting a regulated capital structure is part
14 of what the AUC does, correct?

15 MR. PATRICK BOWMAN: At this time,
16 yes.

17 MR. MATTHEW GHIKAS: And you'll see at
18 the bottom there, that debt/equity ratio is standard
19 is greater than 75 percent? He's -- he's reports --
20 sorry, the -- sorry.

21 He's reporting that -- well, let me ask
22 you this way. Would you be able to confirm that --
23 that currently their regulated equity ratio is -- is
24 37 percent?

25 MR. PATRICK BOWMAN: No, I wouldn't be

1 able to confirm that.

2 MR. MATTHEW GHIKAS: Certainly, it's -
3 - your -- based on what Mr. Colaiacovo is reporting,
4 you'd agree that it's certainly thicker equity than
5 Manitoba Hydro?

6 MR. PATRICK BOWMAN: My understanding
7 is it would -- at this point in time -- now these were
8 municipal departments that were -- EPCOR and ENMAX
9 that were then turned into more like commercial
10 entities. They're still owned by the cities, but at
11 that time they took on more of this commercial look.
12 They weren't this before.

13 MR. MATTHEW GHIKAS: And if we went
14 over to page 80, ENMAX is the City of Calgary's
15 utility?

16 MR. PATRICK BOWMAN: Right, that's the
17 other side of this, and ENMAX -- ENMAX is in the
18 electricity and natural gas side. City of Calgary has
19 never quite gotten there with their water utility
20 which is one that I actually do a little bit of work
21 with.

22 MR. MATTHEW GHIKAS: And Mr.
23 Colaiacovo is reporting that ENMAX has a 37 percent
24 equity ratio. Do you see that?

25 MR. PATRICK BOWMAN: I see it

1 reported. I wouldn't be able to confirm.

2 MR. MATTHEW GHIKAS: Okay. And Hydro
3 Quebec is over on page 81, and I'll come back to page
4 80.

5 Page 81, Hydro Quebec, Mr. Colaiacovo
6 is reporting a 69.5 percent debt/equi -- debt ratio
7 which would make a 30.1 -- 30.5 percent equity ratio,
8 correct?

9 MR. PATRICK BOWMAN: Yes. I don't
10 know if this is the consolidated Hydro Quebec, or just
11 the regulated portion. There are -- they're
12 significant unregulated parts and that is -- again,
13 that's balance through the dividend to government.
14 The dividend to government varies depending on how
15 well Hydro Quebec performed in order to, well, pay out
16 revenues to government, but also to establish a -- a
17 financial structure. It's the distribution arm of --
18 of Hydro Quebec that's regulated and I don't know
19 whether this ratio is or not.

20 I do know, you know, Mr. Forrest has
21 extensive experience across Canada and I just offer if
22 there's anything to add to this. I'll -- I'll note
23 that it could help the record.

24 MR. MATTHEW GHIKAS: And on page 82
25 Nolcor. Mr. Colaiacovo's reporting that typically the

1 -- the equity ratio would be around 30, correct?

2 MR. PATRICK BOWMAN: Well, Nolcor is a
3 holding company. It happens to own a Utility,
4 Newfoundland Hydro. It also happens to own a number
5 of other things, so I think we need to be really
6 careful but Newfoundland Hydro, as you go back in
7 time, operated with very, very little equity in the
8 past.

9 They -- the government tried to change
10 the rule and say, we -- again, we'd like to --
11 Newfoundland Hydro was like Manitoba Hydro. The
12 government passed a law that said, let's call those
13 reserves equity and we'd like a return on that,
14 please. And for about a decade the Utility Board
15 effectively said, not until you look like a commercial
16 entity. And so finally, the government came along and
17 actually put in money and now has shareholder
18 investment and equity in -- in Newfoundland Hydro to
19 earn a return.

20 But that's the subsidiary. I think Mr.
21 Colaiacovo was referring to the parent here. And the
22 parent is a whole bunch of other things dominated by
23 the Old Churchill Falls project which has very little
24 debt.

25 MR. MATTHEW GHIKAS: Ontario Power

1 generation, on page 84, he's not reporting a debt/
2 equity ratio. Sask -- do you know what the debt/
3 equity ratio is for Ontario Power?

4 MR. PATRICK BOWMAN: No.

5 MR. MATTHEW GHIKAS: SaskPower on page
6 85, you'd agree looking there, that SaskPower has more
7 equity than Manitoba Hydro?

8 MR. PATRICK BOWMAN: Mr. Forrest does
9 extensive work in Saskatchewan. So I'm -- I'm
10 checking that he doesn't want to hit the mic first,
11 but SaskPower's debt/equity ratio is, as reported. I
12 have no reason to -- to know what is any other value.
13 Perhaps Mr. Forrest wants to --

14 MR. MATTHEW GHIKAS: It's roughly 25
15 percent equity? Mr. Forrest...?

16 MR. GERALD FORREST: It's slightly
17 less. The debt/ratio I think as of a month or two
18 ago, was 75:8.8 versus -- so it's be 24:2, I think.

19 MR. MATTHEW GHIKAS: Okay, thank you.
20 And you can also see on SaskPower their total net debt
21 is 6.9 billion. So half of Manitoba Hydro's? Less
22 than half?

23 MR. PATRICK BOWMAN: Yes. But this is
24 where I -- I need to make the comment about
25 comparability of -- of Utilities. You know, SaskPower

1 is heading into an era of -- of major problems on --
2 on supply and significant -- significant investment
3 needed in the future; major uncertainty about how
4 they're going to do it, and -- and they're going to be
5 having to deal with that -- that development within
6 the financing that you see here. It's not unlike
7 Manitoba Hydro having reached its 75 percent before it
8 settled on its -- on its capital projects.

9 But also SaskPower doesn't invest in
10 the same type of capital assets Manitoba Hydro does.
11 SaskPower has assets that are exposed to fuel prices
12 and exposed to carbon risk, which -- which we don't.
13 So when you go looking at a Utility's level of debt,
14 you know, we -- we accept and suffer the issue of
15 having way more debt for the privilege of buying
16 ourselves inflation protected and fuel price protected
17 assets. And that's why this -- people who don't work
18 in this business, or don't have a depth of experience
19 comparing these have be very careful.

20 MR. MATTHEW GHIKAS: And Mr. Bowman,
21 Manitoba Hydro is a -- exports a significant amount of
22 power, correct?

23 MR. PATRICK BOWMAN: Yes.

24 MR. MATTHEW GHIKAS: And it's a price
25 taker, generally speaking?

1 MR. PATRICK BOWMAN: Well, most of
2 it's under fixed contract at any given point in time
3 but, yes, it's a price taker.

4 MR. MATTHEW GHIKAS: And there's a
5 risk associated with that, correct?

6 MR. PATRICK BOWMAN: There is risk
7 associated but, as I noted, there is much, much, much
8 less risk associated with it now than there was a
9 decade ago.

10 MR. MATTHEW GHIKAS: Page 86. There's
11 Toronto Hydro there. And you'll see Toronto Hydro,
12 Mr. Colaiacovo's reporting a 75 percent debt ratio
13 which would be 25 percent equity as well, correct?

14 MR. PATRICK BOWMAN: Yes. And do you
15 mind if I go back to my previous answer as well?

16 MR. MATTHEW GHIKAS: Certainly.

17 MR. PATRICK BOWMAN: You say there's
18 risk associated with it, but I think that was a -- I
19 want to be careful it's not -- doesn't come across as
20 a trite answer.

21 That there's risk associated with every
22 path in the future for Manitoba Hydro in supplying
23 Manitoba. The reason we went through an NFAT review
24 and we went through assessing the options is to
25 determine which path had the best financial profile

1 with the least risk. And as a matter of fact, Hydro
2 underlined that failing to move forward with a new
3 transmission line to US, failing to build up our
4 interconnections had more risk were we to just stay
5 home and build some gas plants; were we to -- to focus
6 on -- on other resource options that were built into
7 that.

8 So is there risk? Sure, there's risk
9 in any of these businesses, but there's a lot more
10 when you're sitting there and you absolutely need to
11 be dealing with carbon costs and -- and coal price
12 costs and natural gas costs in Saskatchewan than when
13 you're sitting here like Manitoba Hydro with -- with
14 hydraulic generation.

15 MR. MATTHEW GHIKAS: Finally, New
16 Brunswick Power on page 83. So New Brunswick Power is
17 the only one that I could see that had less equity
18 than Manitoba Hydro and its indicating that it's got
19 90 percent debt I believe.

20 MR. PATRICK BOWMAN: Yeah, of the
21 Utilities listed here, New Brunswick Power -- New
22 Brunswick Powers is pretty well, you know, recognized
23 as a Utility that has a -- a capital structure of that
24 form that's somewhat different than the others.

25 MR. MATTHEW GHIKAS: Right. And one

1 of the -- one of the documents that I circulated -- or
2 that I included in the book of documents at tab 8 was
3 New Brunswick's ten (10) power plan.

4 Did you have a chance to read that?

5 MR. PATRICK BOWMAN: I did. I did
6 download the -- the entire document. I don't know if
7 you inserted it in the book but you -- you had given
8 us the heads-up. I made sure that I had, yes.

9 MR. MATTHEW GHIKAS: Okay, thank you.
10 And really, if we can go to page 2 for a moment,
11 you'll -- the point that I was really zeroing in here
12 is, how they say at the second paragraph there:

13 "The overarching financial goals of
14 NB power is to continue to reduce
15 debt and create equity to provide NB
16 Power with some flexibility to
17 manage operating and financial risk
18 to respond to changing markets and
19 technologies and to better prepare
20 for future investment requirements."

21 Are you familiar with New Brunswick
22 Power's plans in that regard?

23 MR. PATRICK BOWMAN: I'm -- I'm
24 familiar with some of them. As I noted I -- I've been
25 retained to work in New Brunswick and we're -- we're

1 in the early stages of dealing with the client there.

2 MR. MATTHEW GHIKAS: Okay. If you can
3 go to figure 1 on page 3. All right. So this is the
4 -- figure 1 is the financial highlights and you'll see
5 that there is the debt and the capital structure in
6 their forecast over ten (10) years.

7 So they're -- they're planning to go
8 from 90 percent -- 90 percent equities -- sorry, 90
9 percent debt down to 72 percent debt by 2027, right?

10 MR. PATRICK BOWMAN: Yes, that's
11 what's shown there.

12 MR. MATTHEW GHIKAS: Okay. And the
13 return on equity line, it -- they're showing that in
14 order to get they're -- they're planning to include in
15 rates a double-digit return on equity?

16 MR. PATRICK BOWMAN: Yes. Would you
17 allow me to address the paragraph before -- below the
18 table to address --

19 MR. MATTHEW GHIKAS: Certainly.

20 MR. PATRICK BOWMAN: This actually is
21 a -- in a way, a beautiful document to set out some of
22 the concepts that -- that we've been talking about.
23 New Brunswick Power has set -- this deals with the
24 extent -- sorry. This deals with the extent to which
25 over focusing on a number fails to tell the story with

1 regards to the target.

2 New Brunswick's target is to move
3 towards the 80:20. And if you looked down at the
4 bottom you'll see it's not just about getting to
5 80:20, it's about the fact -- oh, I'm sorry, the
6 document's the one in front of us, page 95 of -- of
7 the book of documents. It's the paragraph directly
8 below.

9

10 (BRIEF PAUSE)

11

12 MR. MATTHEW GHIKAS: So you're
13 referring to the paragraph right under figure 1, sir?

14 MR. PATRICK BOWMAN: Yes. And the key
15 thing is that the target -- what -- the first line I
16 was highlighting is they're moving towards a minimum
17 debt/equity ratio of 80:20. And it goes on to say
18 that it's:

19 "It's making steady progress towards
20 the goal, but that this year's plan
21 shows a delay in meeting the -- the
22 goal until 2024, compared to the
23 previous plan while maintaining the
24 commitment to low and stable rates."

25 So it's not about -- I think they say

1 their target is 80:20 is an oversimplification. Just
2 like to say, Hydro's old 75:25 was -- is an over
3 simplification. Hydro's financial policy specifically
4 said, similar to these, that we'll move there while
5 maintaining a stable rate regime.

6 But I'll also note this is very much
7 like Manitoba Hydro was in 1996. New Brunswick Power
8 has a -- one of their major hydro generating stations
9 Mactaquac, if I get the pronunciation right. And I'm
10 sure I'm going to have to spell afterwards for the
11 court reporter, which is done in 20:30. It has
12 concrete issues and it's going to have to be massively
13 rebuilt and they're not sure how much it's going to
14 cost, but some of the cost estimates are in the range
15 of 3 to \$5 billion.

16 If you read through the rest of this
17 document, you'll see that this includes almost none of
18 those costs in it. This is about the period where one
19 rebuilds their retained earnings and builds back up to
20 a target before you set out on doing just what
21 Manitoba Hydro is doing now which is you actually take
22 on the investment and you take on the billions of
23 dollars of debt that goes with it.

24 So there's a further discussion back in
25 this document about the Mactaquac hydro station and

1 the extent of rebuilding needed for it, and it
2 emphasizes that in this -- in this document, there's a
3 less than -- my -- my recollection is less than half a
4 billion dollars and -- and it -- I know from other
5 sources, and I'm saying, it could be 3 to 5 billion.

6 And further, it also notes that if it's
7 -- if they have to proceed on Mactaquac quicker than
8 expected, it will serve to delay achievement of the
9 target. It won't save to drive rates up further. It
10 will serve to say, fine, we'll take a little longer to
11 get to the 80:20. And you'll see that in the further
12 -- discussed -- and I wish I could find the page
13 right now.

14 I will get that back to Mr. --

15 MR. MATTHEW GHIKAS: One of the things
16 that they're doing, Mr. Bowman, is to reduce absolute
17 debt levels as well, correct?

18 MR. PATRICK BOWMAN: Yeah, they're not
19 making -- it's -- it's not a lot of progress, but they
20 do in this forecast reduce absolute debt levels,
21 assuming they don't end up with a carbon price.

22 MR. MATTHEW GHIKAS: And they're
23 increasing their equity levels significantly over a
24 ten (10) year period, correct?

25 MR. PATRICK BOWMAN: Yeah. Like I

1 said, it's -- it's much like Manitoba Hydro in the --
2 in the 1996 to 2006 period before the -- the building
3 phase and, you know, set in place some low stable
4 rates. Let your financials unfold over time and --
5 and -- and allow your strength to rebuild.

6 The other thing I'll note is, as I
7 said, if they -- there's -- there's a very important
8 reference on the... I apologize. About the fact that
9 their rates are going to be closely monitored every
10 year.

11 MR. MATTHEW GHIKAS: Now, Mr. -- Mr.
12 Bowman, you'd agree with me that Moody's, as we saw,
13 is already citing Manitoba Hydro financial metrics as
14 among the weakest, if not the weakest, of any of
15 Manitoba Hydro's peers, correct?

16 MR. PATRICK BOWMAN: Yes.

17 MR. MATTHEW GHIKAS: Okay.

18 MR. PATRICK BOWMAN: And as I said, I
19 -- I think that's entirely consistent with -- with the
20 types of -- of information Moody's would have received
21 when the NFAT was unfolding and -- and we were told
22 they were very comfortable with.

23 MR. MATTHEW GHIKAS: All right,
24 switching gears here. In chapter 5 you report -- your
25 report's devoted to the issue of comparing the IFF16

1 Update and interim back to the NFAT forecast,
2 generally speaking, correct?

3 MR. PATRICK BOWMAN: Chapter 5 does a
4 number of comparisons but that is one of them, yes.

5 MR. MATTHEW GHIKAS: And just for
6 reference, the NFAT was based on IFF13?

7 MR. PATRICK BOWMAN: We started with
8 IFF12 is my recollection and moved to IFF13.

9 MR. MATTHEW GHIKAS: Okay. Now, since
10 the NFAT, the capital costs of Bipole III have
11 increased 400 million or 9 percent, correct?

12 MR. PATRICK BOWMAN: It's been
13 significant.

14 MR. MATTHEW GHIKAS: And you'd accept
15 those figures, subject to check?

16 MR. PATRICK BOWMAN: Yes.

17 MR. MATTHEW GHIKAS: And the budget
18 for Keeyask is increased by 2.2 billion?

19 MR. PATRICK BOWMAN: I accept that
20 Keeyask has gone up, subject to check. I -- I'm not
21 sure which starting point and ending point you're
22 using to come up with the 2.2.

23 MR. MATTHEW GHIKAS: And the -- and
24 that figure would represent a 33 percent increase
25 since the NFAT?

1 MR. PATRICK BOWMAN: I -- I accept 33
2 percent.

3 MR. MATTHEW GHIKAS: Now, domestic
4 volumes, forecast domestic volumes, they've declined
5 significantly between 2013 electric load forecast and
6 the 2017 load forecast, right?

7 MR. PATRICK BOWMAN: Right. They have
8 with two (2) pieces of the puzzle -- I guess three (3)
9 if I could say it that way. One is -- my
10 understanding is that a base level of forecast the --
11 the loads have declined. The second is that there's
12 more DSM assumed in the loads and the third is that
13 load forecast 2017 builds in elasticity, assuming the
14 7.9 percent rate increases. So it has an extra
15 downward pressure in it.

16 MR. MATTHEW GHIKAS: And you'll
17 accept, subject to check, that the 2017 general
18 consumers sales net of DSM by 2027 is down 7 percent
19 or 1800 gigawatt hours compared to the NFAT?

20 MR. PATRICK BOWMAN: Is that with the
21 bigger rate increases?

22 MR. MATTHEW GHIKAS: With the...

23 MR. PATRICK BOWMAN: Is that the -- a
24 load forecast that assumes the 7.9 percent and the
25 elasticity responses to them?

1 MR. MATTHEW GHIKAS: That's with the
2 7.9.

3 MR. PATRICK BOWMAN: Okay, can you
4 give me the figure again and I'll check.

5 MR. MATTHEW GHIKAS: Seven percent or
6 1800 gigawatt hours by 2027 compared to the NFAT.

7 MR. PATRICK BOWMAN: Seven percent
8 lower or 1800 gigawatt hours by 2027. Was that your
9 reference?

10 MR. MATTHEW GHIKAS: Correct.

11 MR. PATRICK BOWMAN: So I -- I just
12 want to double-check this to make sure I'm correct.

13 MR. MATTHEW GHIKAS: Certainly.

14 MR. PATRICK BOWMAN: We've worked with
15 elasticities in the range of .35 or .4. The new
16 scenario has six (6) years is my recollection of the
17 7.9s built into that -- that forecast, which are 4
18 percent higher than the previous one.

19 So, if I take that extra 4 percent, and
20 I deal with the elasticity associated with it that -
21 that would be a significant component of that 7
22 percent. You -- you -- is that among the things you
23 want me to confirm?

24 MR. MATTHEW GHIKAS: I'm just asking--

25 MR. PATRICK BOWMAN: I mean, the --

1 the -- at the elasticity levels we're talking about
2 it's over -- over 1 percent a year from opposing the
3 higher rate increase.

4

5 (BRIEF PAUSE)

6

7 MR. MATTHEW GHIKAS: Yeah, all -- all
8 I'm asking you to do, Mr. Bowman, is to compare the
9 2013 electric load forecast that underpinned the
10 development plan 5, with level 2 DSM, to the 2017 load
11 forecast.

12 And I'm just suggesting that at 2027,
13 the difference is 1800 gigawatt hours.

14 MR. PATRICK BOWMAN: Yeah, I -- I --
15 like I said, I can -- I -- I will check that and come
16 back and let you know, but I'm -- I'm just -- wanted
17 to get it clear that, effectively, that 7 percent is
18 the elasticity response to the higher rate increases.
19 So if you're comparing two (2) load forecasts that
20 have different rate increases, it's -- it's -- you
21 have to be careful about whether it means we're --
22 we're off-track because of what we imposed verses
23 we're off-track due to the forecast so.

24 But I -- I will go check the -- the
25 load forecast, and -- I'm assuming you're saying net

1 of DSM as well, by the way?

2 MR. MATTHEW GHIKAS: I am, yes.

3 MR. PATRICK BOWMAN: Okay, so I will -
4 - if I don't have those -- all the figures I need to
5 do that -- because I know some the latest DSM figures
6 are -- aren't -- are not on the record, I will -- I
7 will follow up with Mr. Hacault and he will -- he will
8 get the figures he needs.

9 MR. MATTHEW GHIKAS: That's okay, Mr.
10 Bowman, it's -- we've -- we've got the information.
11 So you don't -- you don't need to check that.

12 Now, in terms of how a decline in
13 domestic load affects rates, just general simple
14 principles here, the rate increases are expressed as a
15 percentage, right?

16 MR. PATRICK BOWMAN: Correct.

17 MR. MATTHEW GHIKAS: And the revenues
18 are expressed in dollars?

19 MR. PATRICK BOWMAN: Sure.

20 MR. MATTHEW GHIKAS: And so a rate
21 increase to the same percentage may yield the same
22 rate per kilowatt hour, but it yields less total
23 revenue when the load declines, right, other things
24 being equal?

25 MR. PATRICK BOWMAN: Yes.

1 MR. MATTHEW GHIKAS: And would you
2 accept that, subject to check, that using an average
3 of 0.07, dollars for the average domestic rate over a
4 ten (10) year period to 2027 with the 3.95 rate path,
5 the cumulative domestic revenues would be down almost
6 \$1 billion, relative to where they would've been under
7 the 2013 load forecast?

8 MR. PATRICK BOWMAN: It's -- it's
9 perhaps late Monday to do math in my head. Can -- can
10 I get the numbers again and I'll just jot them down to
11 ...

12 MR. MATTHEW GHIKAS: Sure. So it's 7
13 -- \$.07 cents.

14 MR. PATRICK BOWMAN: Okay.

15 MR. MATTHEW GHIKAS: Is the rate, and
16 over the ten (10) year period to 2027/'28, at the 3.95
17 rate path, the cumulative domestic revenues are down
18 985 million, is the figure, relative to where they
19 would've been under the 2013 load forecast.

20 MR. PATRICK BOWMAN: I'm sorry, I
21 can't derive the third number from the first two (2).
22 I don't have enough information --

23 MR. MATTHEW GHIKAS: Don't have enough
24 information --

25 MR. PATRICK BOWMAN: -- to derive what

1 you're asking me to calculate.

2

3 (BRIEF PAUSE)

4

5 MR. PATRICK BOWMAN: I -- I'm also I'm
6 not sure I have a -- even if I were to go away and
7 calculate it, I'm not sure I have a load forecast that
8 has 3.95 percent rate increases in it. As we just
9 noted, there is a significant elasticity response
10 assumed for the 7.9s in 2017 load forecast.

11 MR. MATTHEW GHIKAS: So it's late in
12 the day, Mr. Bowman. I think we'll just -- we'll
13 leave it at that. We -- I won't have you follow-up on
14 that.

15 All right, in terms of export prices,
16 the prices have basically come down around 2009 and
17 they've stayed down for about eight (8) years,
18 correct?

19 MR. PATRICK BOWMAN: Did you 'a year'
20 or 'eight (8) years?

21 MR. MATTHEW GHIKAS: Eight (8) years.

22 MR. PATRICK BOWMAN: Well, the -- the
23 -- if you mean -- there's a number of different ways
24 we talk what export prices. Mr. Ghikas, there's an --
25 an opportunity type of price. There's an average

1 revenue in Hydro's proposals. My image -- which I can
2 dig up if you like -- is the -- the graph that Hydro
3 showed that in each successive IFF they dropped by a -
4 - a subsequent amount, but those were forecasts of
5 average revenues.

6 So, I don't know that it was a one time
7 change. It was -- it was --

8 MR. MATTHEW GHIKAS: All right. Well,
9 export --

10 MR. PATRICK BOWMAN: -- excessive
11 forecast.

12 MR. MATTHEW GHIKAS: -- export prices
13 is a general principle. They've been coming down,
14 right, in terms of how they affect Manitoba Hydro?
15 Their -- it's -- it's an unfavourable change in
16 prices?

17 MR. PATRICK BOWMAN: Correct. It's an
18 unfavourable change in prices at -- when we're
19 exporting and a favourable change in the -- the worst
20 case scenarios when we're importing and -- and cutting
21 off our export cust -- export supplies to the -- to
22 the opportunity market.

23 MR. MATTHEW GHIKAS: And the net
24 impact of that is -- is -- is negative overall to
25 Manitoba Hydro, correct?

1 MR. PATRICK BOWMAN: The net impact
2 that is negative at the mean and it's positive at the,
3 you know, P10, P5, P1 type of scenarios.

4 MR. MATTHEW GHIKAS: Okay. So the
5 forecasts which is what you were referring to, the
6 graph that you were seeing. So the forecast for price
7 growth has continued to decline in recent years,
8 correct?

9 MR. PATRICK BOWMAN: Correct.

10 MR. MATTHEW GHIKAS: Okay. And the
11 forecasts from the NFAT that were forecasting price
12 appreciation, it hasn't materialized, correct?

13 MR. PATRICK BOWMAN: Correct.

14 MR. MATTHEW GHIKAS: And the same is
15 true for IFF14 and IFF15, correct?

16 MR. PATRICK BOWMAN: Correct.

17 MR. MATTHEW GHIKAS: And the -- with
18 IFF16 and the update, Manitoba Hydro is still
19 predicting price appreciation, but it's just not as
20 high or as fast as in those previous forecast,
21 correct?

22 MR. PATRICK BOWMAN: Well, I believe
23 that's the case. I think we have to be careful about
24 the way Manitoba Hydro's forecasting prices for the
25 end of contracts and the extent to which there's no

1 assumption -- those contracts are actually resold in
2 the market with the -- the normal type of firm prices,
3 they're -- they're assumed as -- as I've heard in the
4 -- in the nonconfidential part of the hearing to be a
5 -- I'll use the word -- dumped on the opportunity
6 market once those come to the end.

7 So, you know, I can't see what the --
8 what the prices are. I see averages and averages
9 include the fact that -- of those assumptions which
10 are a conservatism justification, as I understand it.

11 MR. MATTHEW GHIKAS: Okay. And would
12 you be able to confirm, subject to check, that over
13 the period of 2019 to 2027, the spring on peak export
14 forecast that underpins Manitoba Hydro's MH-16 update
15 with interim is on average 31 percent lower than the
16 2015 price forecast?

17 MR. PATRICK BOWMAN: If you were to
18 give me references that showed those prices, I -- they
19 may only be in confidential documents available to --
20 to you, but not me, Mr. Ghikas.

21 MR. MATTHEW GHIKAS: And what about 36
22 percent lower than the 2014 price forecast?

23 MR. PATRICK BOWMAN: Again, I -- I
24 think it -- once we get into that level of detail, I
25 don't believe I have access to that information in --

1 and I don't believe I would be able to check whether
2 it has those conservative dumb power and opportunity
3 market assumptions built into them or not.

4 MR. MATTHEW GHIKAS: Okay. And how
5 about 38 percent less than the 2013 price forecast.

6 The same answer applies?

7 MR. PATRICK BOWMAN: I -- I don't have
8 that information. I don't have that data. I'm not
9 privy to it.

10 MR. MATTHEW GHIKAS: Okay. Well,
11 maybe we can do it this way. If we look at your
12 report 6 -- page 6-6. Sorry, I got the wrong -- the
13 wrong reference here.

14

15

16 (BRIEF PAUSE)

17

18 MR. MATTHEW GHIKAS: Sorry, 6-16 and
19 line 23, you've got export prices low -- export
20 pricing is described as having been significantly
21 reduced 20 percent below MH-15 levels.

22 So certainly, from that perspective,
23 you had the information available to -- to look at
24 that?

25 MR. PATRICK BOWMAN: Yeah, the best

1 information I have is actually the graph on the next
2 page of this, which shows the average unit revenues --
3 this is Hydro's graph, by the way, the average revenue
4 -- unit revenues built at each successive IFF as Hydro
5 adjusted them downward, and downward and downward.

6 MR. MATTHEW GHIKAS: Okay.

7 MR. PATRICK BOWMAN: And the colour --
8 I hope the colours show up because there's a scheme to
9 particular colours.

10 MR. MATTHEW GHIKAS: Okay. Mr.
11 Chairman, that might be a convenient time to break, if
12 you like.

13 THE CHAIRPERSON: Thank you, Mr.
14 Ghikas. We'll adjourn until nine o'clock tomorrow
15 morning, thank you.

16

17 (PANEL RETIRES)

18

19 --- Upon Adjourning at 5:27 p.m.

20

21 Certified Correct,

22

23 _____

24 Cheryl Lavigne, Ms.

25