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3 MANITOBA PUBLIC UTILITIES BOARD

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6 Re: MANITOBA HYDRO'S APPLICATION

7 FOR APPROVAL OF NEW ELECTRICITY RATES

8 FOR 2010/11 AND 2011/12

9

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13 Before Board Panel:

14 Graham Lane - Board Chairman

15 Robert Mayer, Q.C. - Board Member

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18

19 HELD AT:

20 Public Utilities Board

21 400, 330 Portage Avenue

22 Winnipeg, Manitoba

23 July 7, 2011

24 Pages 8707 to 8955

25

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1 ---- Upon commencing at 9:31 a.m.

2

3 THE CHAIRPERSON: Okay. Good morning,
4 everyone. We're here today for Manitoba Hydro's closing
5 statements. I see some new material here, so, Ms.
6 Ramage, do you want to mark some other material for the -
7 - with exhibit numbers?

8 MS. PATTI RAMAGE: Yes. Just as some
9 housekeeping matters, before we commence with our final
10 submission, Manitoba Hydro has distributed this morning a
11 revised response to PUB Manitoba Hydro Pre-ask 4. Mr.
12 Warden had indicated on the record that there would be
13 more information forthcoming, and so this is that
14 information. It deals with alternate export pricing
15 scenarios, and so we'd like that marked as Manitoba Hydro
16 Exhibit 158.

17 THE CHAIRPERSON: Very good.

18

19 --- EXHIBIT NO. MH-158: Revised response to PUB
20 Manitoba Hydro Pre-ask 4

21

22 MS. PATTI RAMAGE: And then, following
23 forward, Manitoba Hydro has also distributed an outline
24 of its closing comments, and we suggest the outline be
25 marked as Manitoba Hydro Exhibit 159.

1 --- EXHIBIT NO. MH-159: Outline of Manitoba Hydro's
2 closing comments

3

4 MS. PATTI RAMAGE: And just to make sure
5 everyone is on their toes while we're doing final
6 argument, we've distributed a book of documents and
7 authorities. This we suggest be marked as Manitoba Hydro
8 160.

9

10 --- EXHIBIT NO. MH-160: Book of documents and
11 authorities

12

MS. PATTI RAMAGE: And if -- just as a --
a note on this, when we carry forward, you'll notice Tab
1 is actually the Chairman's closing comments on June
9th. And throughout our argument we have gone through,
and you'll see, numbered the various issues as you went
through. And just for ease of reference, we'll be
referring to Chairman's issue number. And that would
just -- if you wanted to go back to the transcript to see
it, is contained in Tab 1 to explain that document.

22 And then, before I turn it over to Ms.
23 Southall, who has a few documents to put on the record,
24 maybe if I could turn to Ms. Southall. Would you like to
25 -- me to speak to the -- the subpoena right now or...

1 MS. ANITA SOUTHALL: What -- what I'll do
2 perhaps is just enter these documents, and that'll be the
3 basis for your response, I believe. Thank you, Ms.
4 Ramage.

5 MR. ROBERT MAYER: Ms. Ramage, I'm
6 looking at Tab 1, okay, and so those little numbers in
7 the margins are the points --

8 MS. PATTI RAMAGE: Yeah, they're
9 handwritten, and -- and circled. Just to -- if anyone is
10 going, Why are they talking about this particular issue,
11 it -- it will draw you back to -- to what the Chairman's
12 comments were.

13 THE CHAIRPERSON: Sounds like it will be
14 helpful. Thank you. Ms. Southall...?

15 MR. ROBERT MAYER: You -- you really have
16 made Mr. Williams look like a bit -- bit of a piker with
17 the documentation you've filled in support.

18 MS. PATTI RAMAGE: Could you define,
19 "piker"?

20 MR. ROBERT MAYER: No.

21 THE CHAIRPERSON: Ms. Southall...?

22 MS. ANITA SOUTHALL: Thank you, Mr.
23 Chairman. For the record, the Board, through myself as
24 counsel, served Manitoba Hydro, and specifically Mr. Ken
25 Tennenhouse, with a subpoena to produce documents

1 involving long-term export agreements of Manitoba Hydro.

2 That subpoena's dated July 4, 2011, was
3 served July 5, 2011. We're seeking to mark that as the
4 next PUB exhibit, and I believe it's PUB Exhibit 26.

5

6 --- EXHIBIT NO. PUB-26: Subpoena dated July 4, 2011

7

8 MS. ANITA SOUTHALL: We have a -- in
9 response to the service of the subpoena, Mr. Tennenhouse
10 of Manitoba Hydro sent a letter to the Public Utilities
11 Board electronically, and by messenger, dated July 5,
12 2011. And we would ask that that be marked then as the
13 next Manitoba Hydro exhibit, which I believe is Exhibit--

14 THE CHAIRPERSON: 161.

15 MS. ANITA SOUTHALL: -- 161, thank you,
16 Mr. Chairman.

17

18 --- EXHIBIT NO. MH-161: Letter from Mr. Tennenhouse,
19 dated July 5, 2011

20

21 MS. ANITA SOUTHALL: And finally, in
22 response to Mr. Tennenhouse's letter, as counsel, we
23 responded by an email letter of July 6, 2011 to Mr.
24 Tennenhouse on behalf of the Board. That letter would
25 please be marked as PUB Exhibit 27.

1 THE CHAIRPERSON: So be it.

2 MS. ANITA SOUTHALL: Thank you.

3

4 --- EXHIBIT NO. PUB-27: Letter to Mr. Tennenhouse
5 from Board counsel, dated
6 July 6, 2011

7

8 MS. ANITA SOUTHALL: I think now Ms.
9 Ramage is in a position to comment on this matter
10 further.

11 THE CHAIRPERSON: Mr. Singh, have you
12 distributed those exhibits that Ms. Southall has just
13 mentioned? Okay. We'd probably benefit from a hard copy
14 as well. Thank you.

15 Ms. Ramage...?

16 MS. PATTI RAMAGE: So my -- my comments
17 will be extremely brief because my comments are
18 essentially a non-comment.

As the parties were made aware yesterday,
on Tuesday during the final day of Intervenor
submissions, Manitoba Hydro's general counsel was served
with a subpoena requiring production of all export
contracts with Minnesota Power, Wisconsin Power Service,
and Northern States Power.

25 Both Ms. Boyd and myself have been

1 completely and totally immersed in preparing for final
2 argument since Tuesday, and we simply aren't in a
3 position to address the merits of the subpoena.

4 Recognizing though that the PUB will want
5 this dealt with immediately, Mr. Tennenhouse retained
6 Aikins to get started on this matter. And I understand
7 Aikins has been in touch with Board counsel and they are
8 preparing documents in response. They will need to be
9 briefed, and a date for arguing the matter, we expect,
10 will be settled upon at the first opportunity. That's --
11 that's our view of the matter.

12 So it wasn't our intention to deal with
13 that specific issue today.

14 THE CHAIRPERSON: Very good. Do you want
15 to begin with -- then with your closing statement?

16 MR. ANTOINE HACAUT: Mr. Chairman, I
17 don't know then -- because MIPUG will have comments, it
18 does have comments. Is it the Board's wish and direction
19 that those comments be reserved and put off to the actual
20 motion date?

21 THE CHAIRPERSON: Yes. Ms. -- Ms.
22 Ramage...?

23 MS. PATTI RAMAGE: And if I could add,
24 our expectation is that all of the Intervenors to the
25 party will be served with anything related to this

1 matter. And that was one (1) of the considerations, is
2 that Intervenors should be provided an opportunity to --
3 to think about this in order that they could provide
4 their submissions.

5 MR. BYRON WILLIAMS: Mr. Chairman, if I
6 could indicate, we've -- we've, late last night and early
7 this morning, canvassed this issue with our client. And
8 we do have a -- have -- we will be making submissions
9 whenever the Board determines that it's opportune on --
10 on --

11 MR. ROBERT MAYER: I'm not sure the
12 Board's going to have an opportunity to make submissions,
13 are we? I'm assuming that somebody's talking about
14 quashing the subpoena. Am I incorrect?

15 MS. PATTI RAMAGE: I -- I believe that's
16 correct, but I believe procedurally the Board has to hear
17 this before anyone else does -- before it can go any
18 further, so.

19 THE CHAIRPERSON: Ms. Ramage, do you want
20 to start with your closing statements?

21

22 FINAL SUBMISSIONS BY MANITOBA HYDRO:

23 MS. PATTI RAMAGE: Yes. Thank you, Mr.
24 Chairman, Mr. Vice-Chair. On December 1st, 2009,
25 Manitoba Hydro filed its 2010/2011 and 2011/2012 General

1 Rate Application. During the course of the past nineteen
2 (19) months, we have engaged in substantial discovery,
3 production of evidence, and rebuttal in some forty-one
4 (41) hearing days.

5 Not only have numerous issues related to
6 revenue requirement, cost of service, and rate design
7 been canvassed and debated, but a substantial, some would
8 say overwhelming amount, of material related to Manitoba
9 Hydro's business model, planning, and operating
10 environment, and especially risks, have been extensively
11 reviewed.

12 In order for the Board and all parties to
13 be clear as to the approvals which Manitoba Hydro is
14 currently seeking it may be useful to remind the parties
15 what it was that Manitoba Hydro originally applied for,
16 and then proceed to discuss how these requested reproo --
17 approvals have been modified during the course of the
18 last nineteen (19) months.

19 When Manitoba Hydro filed its application,
20 the first request for -- was for approval of rate
21 schedules incorporating an across the board 2.9 percent
22 increase in general consumers rates effective April 1st,
23 2010.

24 The specific rate design which would be --
25 which would provide the desired revenue was set forth at

1 Appendix 10.3 of the application. In Order 18/10, which
2 issued on February 9th, 2010, the Board approved on an
3 interim basis a 2.9 percent increase for all classes
4 except for area and roadway lighting, for which no
5 increase was approved.

6 In Order 33/10, which issued April 1st,
7 2010, the Board varied several of the rate schedules
8 which had been filed an aten -- in Appendix 10.3, notably
9 the residential rate schedules. The Board ordered the
10 tail blocks to be reduced from the levels in the
11 application and the first block rates to be increased
12 relative to the levels in the application. The Board
13 denied the reduction in the basic monthly charge for
14 which Manitoba Hydro had applied. We'll be discussing
15 these variations subsequently in the summation when
16 dealing with rate design matters. Manitoba Hydro is not
17 currently seeking to vary the rates approved in Order
18 33/10 and request that those interim rates be confirmed
19 as final.

20 In the December 2009 application it also
21 requested approval of rate schedules incorporating a
22 further across-the-board 2.9 percent average increase in
23 general consumers rates effective April 1st, 2011. The
24 specific rate design matters were set forth in Appendix
25 10.4 of the application. As you're aware, in Order 40/11

1 which issued March 30th, 2011, the Board approved an --
2 on an interim basis a 2 percent increase to all rate
3 classes, again excepting area and roadway lighting, which
4 was less than requested in the application. Order 40/11
5 also varied the rate schedules by requiring that the
6 residential rate increase be applied to eliminate the
7 inversion and keep the two (2) energy blocks equal.
8 We'll be discussing this variation again later when we
9 discuss rate design.

10 Manitoba Hydro seeks to recover in rates
11 the additional .9 percent rate increase as was requested
12 in this -- in its application. We request that the rates
13 in interim 40/11 be confirmed as final and that the
14 additional .9 percent increase sought in this application
15 be approved effective August 1st, 2011, with no
16 retroactivity.

17 With respect to the implementation of that
18 increase, Manitoba Hydro requests the same direction
19 included in Order 40/11 be applied, that is, no increase
20 to area and roadway lighting, all other classes to be
21 increased by .9 percent, all increases to be applied to
22 the energy portion of the rate, and no inversion to be
23 applied to the residential energy rates at this time.
24 Manitoba Hydro will provide further comments with respect
25 to the requested approval of the additional .9 percent in

1 the discussion on revenue requirement which follows.

2 In addition, Manitoba Hydro seeks a final
3 approval of all SEP orders as set forth in Appendix 10.7
4 together with any orders that have issued since the
5 filing of the application up to the time of the Board's
6 order. The same would go for the curtailable rate ex
7 parte orders.

8 We have -- we applied for Order 46/09 to
9 be confirmed, and also with orders issued subsequent to
10 the filing of the application up to the time of the
11 Board's order to also be approved on a final basis. As a
12 note, at this point, we see Order 42/10 and 63/11 under
13 the curta -- curtailable rate section.

14 Finally, Manitoba Hydro's looking for
15 final approval of Order 126/09, which order resulted from
16 Manitoba Hydro's application for temporary billing demand
17 concessions for the general service medium and large
18 customers related to the economic downturn.

19 The Chair also invited all parties to
20 comment as to whether a conditional, perhaps interim,
21 April 1st, 2012 rate adjustment may be warranted, given -
22 - giving consideration to restraining regulatory costs
23 and avoiding duplication. This is the issue we've
24 numbered as Chairman's Question number 3 in Tab 1 of the
25 book of documents.

1 Manitoba Hydro is not seeking a approval
2 of a rate increase for April 1st, 2012 at this time. We
3 certainly appreciate and enthusiastically support the
4 Chair's objective to restrain regulatory costs and avoid
5 duplication. However, we believe that this objective can
6 be achieved with a streamlined application to be
7 submitted in November or December of this year, followed
8 by an abbreviated process, which relies, to a large
9 extent, on the materials filed and extensively reviewed
10 as part of the current proceeding. With this approach, a
11 decision by Manitoba Hydro's Board on the quantum of the
12 rate change can be supported with the updates to key
13 documents, including the IFF, which will be updated in
14 the fall of this year.

15 And with that, I will turn the mic over to
16 Ms. Boyd to discuss the reasons for the application.
17 We're attempting to try to switch back and forth to -- to
18 save our voices and -- and hopefully keep your interest
19 by changing -- changing up every once in a while.

20 MS. MARLA BOYD: I'm not sure whether
21 it'll be a shuffle or a dance, but between the two (2) of
22 us we'll cover the -- the basis.

23 If you're following along in the outline
24 of the argument, I'm going to pick up that slide number 5
25 with respect to the revenue requirement.

1 Having outlined the approvals that were
2 sought by Manitoba Hydro, I'd like to outline the reasons
3 for the application. Manitoba Hydro's rate proposals are
4 developed considering the current financial position of
5 the Corporation, the forecasts of revenues and expenses,
6 and the maintenance of reasonable financial targets,
7 including ensuring that there's an adequate level of
8 retained earnings to protect against the risks that are
9 faced by the Corporation.

10 As has been discussed throughout the
11 proceedings, Manitoba Hydro has three (3) primary targets
12 that guide its revenue requirements and decision making.
13 First, to maintain a minimum debt-equity -- debt to
14 equity ratio of 75:25, recognizing that this ratio could
15 slip during the decade of investment. Second, to
16 maintain an annual gross interest coverage ratio of
17 greater than 1.2 percent. And third, to maintain a
18 capital coverage ratio of greater than 1.2 percent --
19 sorry, one point two (1.2).

20 In addition, the Board at Manitoba Hydro
21 also takes into consideration a number of other factors
22 when considering the amount and the timing of rate
23 applications, including short and long-term market and
24 economic conditions, assessment of physical, financial,
25 and environmental risks, export market opportunities, and

1 customer sensitivities to rate increases.

2 Under the cost of service approach that's
3 used to set electric rates in Manitoba, rate proposals
4 are advanced based on sound financial management
5 principles and judgment with respect to the risks that
6 the Corporation faces. This judgment not only considers
7 the short-term financial results and projections but,
8 given the long-term nature of Manitoba Hydro's planning
9 horizons, by necessity, it also considers the long-term
10 risks and financial projections of the Corporation.

11 The maintenance of a strong financial
12 position, which allows the Corporation to withstand the
13 risks and uncertainties inherent in its operations and to
14 address negative financial consequences of events outside
15 of its control is key to avoiding the need for large or
16 sudden rate increases in the future. This approach
17 considers both the financial integrity of the Corporation
18 and the rate stability for the customer. The benefits of
19 rate stability to customers is intuitive and the benefit
20 of a strong financial Utility should also be readily
21 evident.

22 In a Crown Corporation such as Manitoba
23 Hydro it is the ratepayers who directly benefit from
24 improvements in the financial strength of the Utility.
25 Manitoba Hydro has translated the objectives of financial

1 integrity and rate stability for the purposes of making
2 rate proposals into a strategy of regular and reasonable
3 rate increases. This strategy should not be overly
4 reactive to short-term financial volatility in terms of
5 better than or worse than expected financial results, but
6 rather adopts the principle of gradualism to ensure rate
7 stability for ratepayers. This approach is flexible and
8 it allows for appropriate rate setting responses based on
9 current circumstances and future financial proj --
10 projections and rate -- risk considerations.

11 I want to address the current financial
12 outlook and the projections of the Corporation as the
13 introduction of IFF-10 in this rate proceeding has led
14 some Intervenors to suggest that the improvement in
15 projected net income for the test year has reduced the
16 need for the requested rate increases. And I'm referring
17 to slide 7 which will give you a bit of an overview.

18 Manitoba Hydro's original 2010/'11 and
19 '11/'12 rate proposals were filed in December of 2009
20 based on the financial projections contained in IFF-09.
21 In IFF-09 the projected net income for electric
22 operations for each of the test years was below 90
23 million, and the projected equity ratio was forecast to
24 decrease below the target level to 24 percent in
25 2011/'12.

1 Despite the projected slippage in the
2 equity ratio to 24 percent in the second test year,
3 Manitoba Hydro maintained the requested 2.9 percent rate
4 increase, consistent with the principle of gradualism,
5 and to show customer sensitivity, considering the -- the
6 then-current economic conditions. As was outlined in the
7 application materials, these proposed rate increases were
8 significantly lower than those of other comparable
9 Canadian utilities at the time.

10 Manitoba Hydro's net income from
11 electricity operations for 2009/'10 was \$39 million
12 higher than projected in IFF-09, which was primarily due
13 to a change in the accounting policy related to dual-
14 currency bonds. Manitoba Hydro's equity ratio at the end
15 of 2009/'10 was 27 percent, which was two (2) percentage
16 points higher than the financial target. As will be
17 discussed later in the argument, a major reason for the
18 improvement in the equity ratio was the significant
19 strengthening of the Canadian dollar relative to the US
20 dollar, and the inclusion of unrealized foreign currency
21 gains in the debt-equity calculation.

22 In November of 2010, IFF-10 was finalized
23 and projected net income from electricity operations
24 increased in the test years to 149 million and 129
25 million for 2010/'11 and '11/'12, respectively, or a

1 forecast increase over the two (2) test years of 109
2 million over that projected in IFF-09. I'm sorry, did I
3 say a hundred and twenty-nine (129)? It's 125 million.
4 The -- the graph is correct. This increase was primarily
5 attributed to higher projected net export sales as a
6 result of favourable water conditions as well as lower
7 projected finance expenses.

8 I might add at this point that the lower
9 projected finance expense in each of the two (2) years
10 was almost entirely attributable to the decline in
11 interest rates and the foreign currency effects of the
12 strengthening Canadian dollar.

13 Improvements to projections of finance
14 expense had virtually nothing to do with interest rate
15 forecasting methodology, for which counsel for CAC/MSOS
16 was quite anxious to take credit. In fact, the impacts
17 of the changes in interest rate forecasting methodology
18 are insignificant and certainly have resulted in no
19 actual savings in finance costs for Manitoba Hydro and
20 its ratepayers.

21 Manitoba Hydro's financial results for
22 2010/'11 will not be released to the public until the end
23 of July. However, the Corporation can report that the
24 results are marginally lower than projected in IFF-10.
25 Therefore, there is no significant difference in the

1 financial position of the Corporation at March 31st, 2011
2 from that which was projected in IFF-10.

3 Manitoba Hydro will perform a
4 comprehensive update in the 2011/'12 net income
5 projection in the fall of 2011, when IFF-11 is prepared.
6 However, it must be recognized that there are a number of
7 risks and uncertainties that could impact the current
8 projected net income for electric operations of 125
9 million for 2011/'12. There is uncertainty with respect
10 to the timing and the level of economic recovery, which
11 could continue to negatively impact export volumes and
12 prices as well as domestic sales.

13 There's also a number of uncertainties
14 with respect to the financial impacts of the conversion
15 to IFRS, which I'll elaborate on further in the argument.
16 These uncertainties could significantly reduce the net
17 income and retained earnings for 2011/'12 and the
18 subsequent fiscal years.

19 The most significant uncertainty, however,
20 continues to be water conditions and the very dramatic
21 impacts that high or low water flows can have on export
22 sales. As I mentioned earlier, the major reason for
23 improvement in projected financial results between IFF-09
24 and IFF-10 was increased export sales, almost entirely
25 due to water flow conditions.

1 The variability in net export revenues due
2 to water flows is clearly illustrated in a chart which is
3 found at page 20 of IFF-10 and which we've reproduced in
4 Tab 2 of the book of documents. As illustrated in this
5 chart, the potential difference in export revenues in the
6 fiscal year 2012/'13 between high flows and low flows is
7 \$800 million, and that's just in one (1) year. Beyond
8 2012/'13, the annual variability and next -- net export
9 revenue is even greater than \$800 million per year.

10 So when CAC/MSOS does a retrospective
11 review and attributes \$777 million of difference between
12 forecast and actuals to forecasting error, it's clear
13 that they don't understand or appreciate the revenue
14 variability that's inherent in Manitoba Hydro's hydraulic
15 generating system. It's not forecasting error, it's
16 simply the difference that can and will result from
17 differences in water flows.

18 I'd like to turn for a moment to the
19 longer-term financial projections as contained in the
20 updated twenty (20) year financial outlook that was filed
21 as Manitoba Hydro Exhibit 154.

22 In the updated outlook, the equity ratio
23 is projected to fall to 23 percent by 2012/'13, and to
24 six (6) -- and 16 percent by 2021. Thereafter, the
25 equity ratio is projected to gradually improve and to

1 reach the 70:30 range by the end of the twenty (20) year
2 period.

3 It must be emphasized, however, that the
4 twenty (20) year outlook is a long-term financial
5 projection for which the primary purpose is to assess the
6 financial impacts of the development plans and to compare
7 alternative scenarios. The twenty (20) year financial
8 outlook demonstrates that while Manitoba Hydro's decade
9 of investment does put downward pressure on financial
10 targets over the short-term, the payback is very strong
11 and compares favourably to other development
12 alternatives.

13 Following on, if you are, on page 9 of the
14 outline. In summary, while it's true that Manitoba Hydro
15 is in the best financial position of its history, this
16 has been achieved with water flow conditions well above
17 average. We all know this can change dramatically in a
18 few short months, and given the other risks faced by
19 Manitoba Hydro, it is prudent that regular and reasonable
20 increases be implemented in order to maintain the
21 financial strength of the Corporation and ensure rate
22 stability to all customers in the future.

23 Any deferral of the requested rate
24 increases will increase the risk that future rate
25 increases will need to be higher to be compensa -- to

1 compensate, and Mr. Warden discussed that at transcript
2 page 4,179. The approval of requested rate increases
3 will assist Manitoba Hydro in meeting its net income and
4 retained earning projections for 2011/'12, and protect
5 electricity ratepayers from potentially higher rate
6 increases in the future.

7 I would like to comment on the position of
8 CAC/MSOS, that rate increases approved on an interim
9 basis should be reduced based on some notion of new
10 evidence from Mr. Brennan. By that they were referring
11 to Exhibits 112 and 124, which we have reproduced at Tab
12 3 of the book of documents.

13 It is first necessary to put the so-called
14 new evidence into perspective. To suggest that Mr.
15 Brennan -- Brennan's memos are somehow at odds with the
16 testimony of the Hydro panel is absurd, and is totally
17 inconsistent with the evidence. Let's look at those
18 memos. The first memo is dated March 19th of 2009. That
19 memo clearly intends to reinforce the message to senior
20 management that they will be expected to manage within
21 their approved 2009/'10 operating budgets.

22 In the March 19th, 2009 memo Mr. Brennan
23 states, and I've highlighted it there:

24 "As we will soon be embarking on a new
25 finance -- fiscal year, all senior

1 management should be aware that each
2 division will be expected to manage
3 within their approved 2009/'10
4 operating budget. Should an unforseen
5 event occur, specific approval of
6 executive committee will be required to
7 incur costs not included in approved
8 budgets."

9 Mr. Brennan is an integral part of the
10 budget process at Manitoba Hydro. He does not sit
11 outside the process. He has approved the very budget,
12 which the Hydro panel has been defending as reasonable
13 and well-controlled, before this Board. This is not in
14 any way inconsistent with the direction provided by Mr.
15 Brennan.

16 Now despite Mr. Brennan's memo of March
17 2009, which of course emphasized the importance of
18 managing within approved budgets, actual O -- OM&A
19 expenditures in 2009/'10 exceeded approved budgets by \$6
20 million.

21 And we should look at the reasons for
22 those overexpenditures. In fact, the largest contributor
23 to the overexpenditure was Mr. Brennan's own cost centre,
24 which was over budget by \$3.7 million. The reason for
25 this overexpenditure was mainly due to fees for

1 consulting services directly attributable to this
2 unprecedented risk review that has consumed so much of
3 Manitoba Hydro's time and resources over the past two (2)
4 years.

5 The other reason for the over expenditure
6 in 2009/'10 was the requirement for emergency repairs to
7 generating station equipment on the Winnipeg River.

8 Deferring emergency maintenance at Manitoba Hydro is not
9 an option. The consequences, at best, would be the loss
10 of potentially millions of dollars in export revenues.

11 The consequences, at worst, would be power outages to
12 customers. As Manitoba Hydro has said on many occasions,
13 and as Mr. Brennan reiterated in his memos, public and
14 employee safety, and the integrity of Manitoba Hydro's
15 energy supply and delivery system, will not be
16 compromised.

17 The second memo issued by Mr. Brennan on
18 May 1st of 2009, and the third memo dated August 13th of
19 2010, both deal with the economic downturn and the need
20 to expand measures already underway to constrain costs.
21 A number of measures, including travel restriction, staff
22 freezes, overtime reductions, are referenced in the memo.
23 Mr. Brennan makes the statement that, and I quote:

24 "The measures are being implemented in
25 recognition of the serious economic

1 condition, and as a continuation of the
2 prudent fiscal management that is
3 consistently applied at Manitoba
4 Hydro."

5 Again, Mr. Brennan's memos are totally
6 consistent with the testimony of the Hydro panel, and the
7 suggestion that this is new evidence is unfounded.

21 And I'd like to speak to each one (1) of
22 those in turn. On slide 11, the importance with respect
23 to the retained earnings. The debt to equity ratio
24 continues to be an important financial metric to be used
25 in assessing the financial strength of the Corporation

1 and in assessing rate proposals. The debt to equity
2 ratio measures the portion of Manitoba Hydro's capital
3 structure that is financed internally and not through
4 debt financing. The debt to equity ratio is universally
5 accepted by the financial and investment community as one
6 (1) of the primary measures of the financial strength of
7 the Corporation. This metric is an important
8 consideration in understanding the risk profile of
9 Manitoba Hydro and being able to compare the Corporation
10 to its peers in the industry. The debt-equity ratio is
11 also very important to credit rating agencies and the
12 investor community to understand the risks of investing
13 or lending to the Utility.

14 MR. ROBERT MAYER: Ms. Boyd, can you
15 point to the evidence for that? It seemed through the
16 hearing that the biggest piece of Manitoba Hydro's
17 financial strength and credit rating came from the -- the
18 fact that the -- the debts were guaranteed by the
19 province. And that appeared to be the consensus of just
20 about every witness I heard. So --

21 MS. MARLA BOYD: I will --

22 MR. ROBERT MAYER: -- tell me about --

23

24 CONTINUED BY MS. MARLA BOYD:

25 MS. MARLA BOYD: Sorry, I will in a

1 moment just walk you through some of the credit agency
2 reports that we have and I think that will help to -- to
3 emphasise that point.

4 We considered CAC/MSOS's argument that
5 retained earnings weren't important, one (1) of the
6 experts that you've just referred to, and that was
7 predicated on the view that retained earnings are not a
8 liquid pool of cash that can be used in times of
9 financial difficulty but rather the accumulation of past
10 accounting net income.

11 This is a surprisingly limited view of the
12 role of retained earnings and the capital structure in
13 the financial management of the Corporation. That view,
14 that retained earnings is simply a historic accounting
15 construct, appears to ignore or to misunderstand the real
16 and tangible value of having the appropriate mix of debt
17 and internally generated earnings to finance the ongoing
18 capital requirements of the Corporation.

19 It would be financially irresponsible to
20 maintain a pool of liquid cash while at the same time
21 borrowing on capital markets and burdening ratepayers
22 with unnecessary financing costs. Instead, retained
23 earnings are invested in the assets of the Corporation to
24 yield increased cashflow and lower overall rates to
25 consumers for many years into the future. An adequate

1 level of retained earnings also provides the financial
2 structure which enables borrowing on favourable terms and
3 at very competitive interest rates.

4 As a Crown corporation, Manitoba Hydro
5 does not issue share capital and its -- and is financed
6 exclusively through retained earnings and debt. All
7 other things being equal, the more retained earnings that
8 Manitoba Hydro has, the less debt that is required to
9 finance its operations. The less debt or leverage that
10 is employed by the Corporation, the lower are the fixed
11 interest payments, the lower the exposure to interest
12 rate volatility, and the lower the financial risk in
13 general.

14 As it is the ratepayers that ultimately
15 bear -- bear the risk of Manitoba Hydro's operation, the
16 lower the financial risk for the Corporation, the lower
17 the risk for the ratepayer.

18 Therefore, CAC/MSOS's conclusion that
19 retained earnings and debt-equity ratios are not
20 important to Manitoba Hydro is at odds with their stated
21 desire to protect ratepayers from unnecessary risks.
22 Simply put, the retained earnings in a publicly owned
23 corporation like Manitoba Hydro are not for the benefit
24 of management or private shareholders, but rather for the
25 benefit of ratepayers. The objective is to strike the

1 appropriate balance between debt and equity, and that
2 balance, as previously endorsed by this Board, is 75
3 percent debt and 25 percent equity.

4 CAC/MSOS has also argued that -- that the
5 fact that Manitoba Hydro's debt-equity ratio is projected
6 to slip below the target in the decade of investment
7 suggests that that target has limited value.

8 While the management and the Board of
9 Manitoba Hydro is concerned about the potential slippage
10 in the financial ratios and will do everything they can
11 to manage as close to the targets as possible, the
12 requirement to invest in new generation and transmission
13 assets to meet the future energy needs of Manitobans does
14 not negate the value of having long-term financial
15 targets.

16 Manitoba Hydro therefore strongly
17 disagrees with CAC/MSOS's assertion that its debt to
18 equity target is irrelevant during the period of
19 substantial investment. The PUB findings at page 127 of
20 Order 116/08 support this view and can be found at Tab 4
21 of Manitoba Hydro's book of documents. Quoting from page
22 127:

23 "The three (3) measures of financial
24 health and stability, debt to equity,
25 interest coverage, and capital coverage

1 are taken seriously by debt rating
2 agencies and others. And while the
3 ratio may not be expected to be
4 maintained throughout the whole
5 forecast period due to the effects of
6 the expanded capital program, they
7 still remain important."

8 Manitoba Hydro is also of the firm view
9 that the 25 percent equity ratio remains appropriate
10 financial target when considering the projections of the
11 size of the Corporation after the decade of investment.

12 Manitoba Hydro also believes that a useful
13 measure of the adequacy of the dollar level of retained
14 earnings is that which is sufficient to withstand the
15 financial impact of the risks faced by the Corporation.
16 I'm over on page 14, Mr. Mayer. The absolute magnitude
17 of these risks can grow over time depending on the
18 duration or the severity of the risk events and can
19 change relative to the size of the Corporation. In fact,
20 it's reasonable to assume that there's linkage between
21 the growth in the Corporation's assets and the risks that
22 it faces. As a result, it's appropriate to set financial
23 targets based on a debt to equity ratio which recognizes
24 that fact.

25 Mr. Chairman, you've posed a number of

1 questions to parties to the hearing with respect to the
2 adequacy of Manitoba Hydro's retained earnings in terms
3 of the risks that are faced by the Corporation in the
4 future as it relates to drought, potential cost
5 increases, and to other aspects of the Corporation's
6 operations.

7 Manitoba Hydro's retained earnings could
8 be close to depleted with a severe and prolonged drought.
9 There are other major risks, such as the loss of critical
10 infrastructure that could also have a substantial
11 negative impact on retained earnings. As we sit here
12 today, however, water levels are well above average and
13 Manitoba Hydro is taking all possible steps to avoid the
14 consequences of a catastrophic loss of infrastructure,
15 most importantly with the construction of Bipole 3.

16 One (1) of the most immediate risks faced
17 by Manitoba Hydro is that the economic recovery will take
18 much longer than expected, and export revenues will
19 remain depressed for a long -- prolonged period. As
20 export revenues currently account for approximately 30
21 percent of Manitoba Hydro's revenues, reductions in
22 exports due to price or volume can have a significant
23 impact on net income and on retained earnings. This is a
24 situation that Manitoba Hydro is monitoring closely and
25 will provide updates to the Board with the filing of the

1 updated IFF in the fall.

With regard to the calculation of equity,
in your closing comments, Mr. Chair, the question was
posed whether the Corporation's retained earning were
firm enough, with concern being expressed specifically
with respect to intangible assets, deferred costs,
contributions in aid of construction, and AOCI.

8 From an overall perspective I have already
9 outlined that the purpose of the debt to equity ratio is
10 to measure the portion of the Corporation's assets that
11 are not funded by debt, and that the equity amount is not
12 intended to represent a pool of liquid assets.

With respect to intangible assets and deferred costs specifically, Manitoba Hydro has two (2) observations on this issue. Firstly, the real value of an asset is its ability to generate positive cash flow in the future. As a rate setting process inherently assumes that a utility is a going concern, it is this cashflow generating ability that should be important in the evaluation of asset value rather than its liquidation value. Secondly, given the accounting standards are becoming more stringent in terms of the criteria to recognize an asset and to test impairment, directionally this should be less of a concern in the future.

25 Contributions in aid of construction

1 represent non-refundable contributions provided by
2 customers toward service extension costs. These
3 contributions are not part of the interest bearing debt
4 of the Corporation. And, given that they are non-
5 refundable, they do not represent liabilities to the
6 Corporation. As such, the inclusion of these
7 contributions in equity conforms with the general purpose
8 of the debt to equity calculation.

9 As we discussed during the Hearing, and
10 you'll see summarized on Tab -- slide 16, the treatment
11 of AOCI in the debt to equity calculation is a relatively
12 new circumstance, given that it was first introduced into
13 the Corporation's financial statements in 2007/'08 fiscal
14 year. The introduction of AOCI is consistent with the
15 overall trend in financial reporting and accounting
16 standards of moving towards using fair values of assets
17 and liabilities versus historic cost, and recognizing
18 unrealized gains and losses on the balance sheet in order
19 to provide more relevant information to the users of the
20 financial statements about the economic realities of the
21 Corporation.

22 The fact of the matter is that the impacts
23 of the movements in the foreign exchange rate on US long-
24 term debt are reflected both in the debt calculation and
25 in the equity calculation and, as such, are the best

1 indication of the financial position of the Corporation
2 at any one (1) point in time.

3 It is also important to note that two (2)
4 of the credit-rating agencies, Standard & Poors and
5 Moody's, accept the inclusion of AOCI in the equity
6 calculation, and that DBRS looks at it on a case by case
7 basis. Further, both BC Hydro and Hydro Quebec include
8 AC -- AOCI in their equity calculations.

9 In summary, Manitoba Hydro believes that
10 the components of an equi -- of its equity calculation
11 are appropriate. Further, we submit that it is important
12 that a consistent calculation be used, and that it be
13 consistently applied so that changes from period to
14 period can be assessed and measured.

15 Turning to slide 17, the assertions made
16 by CAC/MSOS that Manitoba Hydro's financial targets and
17 performance are not important considerations in the
18 credit rating and the costs of financing in the Province
19 of Manitoba and Manitoba Hydro are not supported by the
20 evidence. The credit rating reports from each of the
21 three (3) credit rating agencies demonstrates the
22 importance of Manitoba Hydro's financial performance to
23 the credit ratings of the province and of Manitoba Hydro.
24 And, as I said, Mr. Mayer, I'll just walk you through
25 each one (1) of them.

1 At Tab 5, we have the DBRS rating report
2 for the Province of Manitoba, which is dated October 8th
3 of 2010. That was originally filed as Appendix 65 in the
4 application, and you'll see there that DBRS has stated
5 that:

6 "Abundant, low-cost hydro-electricity
7 and revenue volatility introduced by
8 Manitoba Hydro are rating
9 considerations in the Province of
10 Manitoba."

11 In the Standard & Poor's corporate credit
12 rating for Manitoba Hydro, which is dated November 20th
13 of 2008, and at Tab 6 of the book of documents, Standard
14 & Poor states on page 1 that:

15 "The ratings on Manitoba capture the
16 Company's [being Manitoba Hydro's]
17 contribution to the province's business
18 risk and cash flow."

19 In Moody's Investor Service most credit --
20 most recent credit report for the province, which is
21 dated August 10th of 2010, and you'll find that at Tab 7,
22 there is a section specifically devoted to Manitoba
23 Hydro. It's entitled "Significant Borrowings for
24 Manitoba Hydro but Self-supported." And you'll find that
25 several pages in. Thank you. You found it better than I

1 did. In this section of the report, Moody's states that:
2 "Roughly one-third of the province's
3 total direct and indirect debt is
4 attributed to Manitoba Hydro, and is
5 considered to be self-supporting. This
6 Crown corporation's ability to meet its
7 own financial obligations, without
8 recourse to the province -- provincial
9 subsidies, is a positive credit
10 attribute for the province."

11 The subsequent paragraph in the Moody's
12 report outlines Manitoba Hydro's future capital
13 expenditures, broadly describes the source of Hydro
14 capital financing, and concludes with the statement that
15 Moody's will, and I quote:

16 "Continue to monitor -- to monitor
17 developments with Manitoba Hydro's
18 capital plan to ensure that our
19 conclusion regarding the self-
20 supporting status of the Utility's debt
21 remains appropriate."

22 The importance of Manitoba Hydro's
23 financial ratings, its ratios, and its self-supporting
24 status is further reinforced by Moody's in their most
25 recent credit rating report for Manitoba Hydro, which is

1 dated February 7th, 2011, and is found at Tab 8 of the
2 book of documents. On page 2, Moody's states, and I
3 quote:

4 "MHEB's financial ratios, including
5 interest coverage, are an indication of
6 the extent to which it is capable of
7 supporting its debt independently,
8 which is a consideration in the rating
9 of the province."

10 With respect to Manitoba Hydro's future
11 plan, Moody's then notes that, and I quote again:

12 "Manitoba -- MHEB's financial forecasts
13 indicate that management expects to
14 generate sufficient cashflow to service
15 the interest on its debt. However, the
16 anticipated weakening of the MHEB's
17 financial profile means that the
18 Company has less cushion against expect
19 -- unexpected events such as poor
20 hydrology, capital cost overruns, or
21 construction delays. Should such
22 events arise, MHEB might need to seek
23 larger rate increases, curtail its
24 capital spending, or take other actions
25 to ensure that the Company continues to

1 be able to independently service its
2 debt."

3 It is clear that Manitoba Hydro's
4 financial performance forms an important consideration in
5 the credit ratings and the financing costs of the
6 province and of Manitoba Hydro. This evidence clearly
7 reconfirms the PUB's previous findings on this issue as
8 stated in Order 116/08 at page 130, which you'll find in
9 Tab 4 of the book of documents. I quote:

10 "It is the Board's understanding that
11 rating agencies look prominently at
12 Manitoba Hydro's financial strength in
13 assessing the credit rating of the
14 province. A weakening of the financial
15 strength of Manitoba Hydro would not be
16 viewed favourably by those credit
17 rating agencies and would have
18 implications -- may have implications
19 impacting the credit rating of the
20 province, making provincial borrowing
21 more expensive. Such a development
22 would not be in the public interest."

23 Close quote.

24 Turning to slide 18. Manitoba Hydro's
25 debt management strategy, which was filed in this

1 proceeding as Appendix 85, provides an overview of
2 Manitoba Hydro's capital finance program, and outlines
3 the statutory borrowing authority of Manitoba Hydro.

4 As stated in Section 4 of the document,
5 Manitoba Hydro's fundamental debt management objective is
6 to provide stable low-cost funding to meet the financial
7 obligations and liquidity needs of the Corporation.

8 Section 5 of the debt management strategy
9 document provides an analysis of the historical interest
10 rate environment with data going back to 1948, along with
11 a range of interest forecast to 2020, a total of seventy-
12 two (72) years of interest data. This section also
13 outlines the Corporation's debt management
14 considerations. As is stated on page 9 of the debt
15 management strategy, careful consideration is given to
16 the debt maturity schedule and the to -- total level of
17 annual borrowings.

18 Contrary to -- to suggestions by Mr.
19 McCormick on behalf of CAC/MSOS, Manitoba Hydro has a
20 relatively smooth debt maturity schedule but avoids heavy
21 concentrations of debt maturities in any one (1) fiscal
22 year. These evenly distributed debt maturities promote
23 refinancing stability. This fact is clearly evidenced in
24 the DBRS rating report for the Manitoba Hydro-Electric
25 Board, which is dated November 10th of 2009 -- sorry,

1 2010, and which you'll see at Tab 9 of the book of
2 documents. This was originally filed as Appendix 75. On
3 page 7 of that report, DBRS states, and you'll find it
4 highlighted there:

5 "Manitoba Hydro maintains a relatively
6 smooth maturity profile, no unhedged
7 foreign currency debt and a moderate
8 level of floating rate debt, which adds
9 stability to debt servicing costs and
10 minimizes interest rate risk."

11 Stability, and the ability to reliably
12 meet debt service obligations, is recognized by credit
13 rating agencies as being an important rating
14 consideration.

15 In February of 2010, Moody's published a
16 special comment entitled "Canadian Provinces: Conditions
17 Remain Challenging," which is at Tab 10 of the book of
18 documents and was originally filed as Appendix 68 in the
19 application. On page 2 of that report, in describing
20 rating drivers beyond 2010, Moody's articulates their
21 view regarding deterioration and debt affordability. And
22 I quote:

23 "When interest rates rise, provinces
24 that rely heavily on short-term or
25 variable rate debt financing will be

1 more affected than those who opt to
2 lock-in historically low interest rates
3 for long dated maturities, effectively
4 ensuring debt service certainty for the
5 long period of time."

6 Sharp increases of interest rates over
7 short periods of time have occurred in the past and
8 cannot be ruled out. If similar conditions were to
9 occur, interest costs would effectively be eating into
10 funds available for public services. Under this scenario
11 downward rating pressure would emerge.

12 Mr. McCormick, on page 7,846 of the
13 transcript, acknowledged that short-term interest rates
14 have, in the past thirty (30) years, been at levels far
15 higher than the current long-term fixed interest rates.
16 When presented with Manitoba Hydro Exhibit 109, which
17 you'll find at Tab 11 of the book of documents, Mr.
18 McCormick also acknowledged on transcript pages 7,845
19 through 7,846, that:

20 "Long-term interest rates are currently
21 at historical lows. The added benefit
22 of the historical lows on long-term
23 debt is that Manitoba Hydro can
24 simultaneously achieve its objective
25 for both stability and low cost, and

1 these low-cost interest rates will
2 benefit rate -- ratepayers for the
3 entire term, ten (10) to thirty (30)
4 years, and not just in the short-term."

5 Manitoba Hydro is not alone in this
6 observation. As we cited in our rebuttal evidence BC
7 Hydro, in their annual report 2010 on page 72, stated,
8 and I quote:

9 "Falling interest rates resulted from
10 the global financial turmoil have
11 allowed BC Hydro to take advantage of
12 the low rates for long-term debt. BC
13 Hydro has increased its long-term fixed
14 rate debt and has reduced its
15 proportion of variable interest rate
16 exposure."

17 Close quote.

18 Turning to the National Bank Financial
19 Report, CAC/MSOS has expended considerable time and
20 effort on the topic of the report authored by National
21 Bank Financial on fixed versus floating rate debt.
22 Manitoba Hydro submits that its rebuttal evidence on
23 pages 26 through 31 clearly refutes that evidence.

24 In its final argument, CAC/MSOS concluded,
25 based on their interpretation of the NBF report, that

1 excessive reliance on the certainty of long-term fixed
2 debt comes at a material cost in terms of lost
3 opportunity for lower debt cost.

4 Neither NBF nor Manitoba Hydro has made
5 that comment, and Manitoba Hydro does not agree with that
6 conclusion. In fact, as Mr. Schulz indicated at pages
7 5,131 and 5,132 of the transcript, the reference graphs
8 demonstrate only income statement volatility. And the
9 risk that NBF ar -- articulated in the body of their
10 report is that when you take on more floating rate debt
11 you're incurring interest rate risk.

12 Consequently, Manitoba Hydro's position on
13 the matter remains as was stated on page 37 of the
14 rebuttal evidence. Manitoba Hydro asserts that NBF
15 report is fully responsive to the PUB directive
16 pertaining to an independent assessment of the
17 Corporation's relative weighting of fixed versus floating
18 debt. Manitoba Hydro's current ratio of fixed versus
19 floating debt is within its approved risk tolerance and
20 is appropriate to the current market environment.

21 On the topic of the economic outlook the
22 Chairman on page 8,320 of the transcript asked:

23 "What are the party's views as to the
24 implications for rates faced by
25 Manitoba Hydro with respect to

1 potential -- future potential rate
2 increases and inflation and interest
3 rate and currency values for domestic
4 customers?"

5 Turning to slide 20 with respect to the
6 foreign currency risks, the Corporation's Foreign
7 Exchange Exposure Management Program demonstrates that
8 there are relatively small implications for rates arising
9 from the US currency fluctuations.

10 As identified on page 9 of the
11 Corporation's most recent debt management strategy,
12 Manitoba Hydro has significant export revenues
13 denominated in US dollars. As is noted in PUB Manitoba
14 Hydro 2-11C, the Corporation has an exposure management
15 program which manages the Corporation's exposure to US
16 dollar foreign exchange rate fluctuations by establishing
17 a natural hedge between US dollar cash inflows from
18 export revenues and US dollar cash outflows from the US
19 dollar principal and interest payments.

20 To the extent that period cashflows are in
21 balance, changes in foreign exchange rates will be offset
22 on the income statement. For example, a strengthening
23 Canadian dollar decreases the translation of export
24 revenues which will be offset by decreases in the
25 translation of the associated US denominated interest

1 expense.

2 As part of the FX Exposure Management
3 Program the Corporation has established accounting
4 cashflow hedges between the US long-term debt obligations
5 and anticipated US export revenues. Accordingly, foreign
6 exchange translation gains and losses on the US long-term
7 debt balances in effective cashflow -- in -- in effect,
8 are a cashflow hedge relationship, do not go directly to
9 the finance expense, but rather are recorded in AOCI.

10 When hedged US export revenues are
11 realized, the previously unrealized -- sorry, previously
12 unrealized accumulated AOCI on the associated US long-
13 term debt are recognized in finance expense. This
14 process was described by Mr. Schulz and Mr. Rainkie on
15 pages 1,077 to 1,086 of the transcript as well as being
16 outlined in the response to PUB Manitoba Hydro 2-11B.

17 THE CHAIRPERSON: Ms. Boyd, accepting
18 that, how does that support AOCI being included in
19 equity?

20 MS. MARLA BOYD: That one's going to
21 require some help.

22

23 (BRIEF PAUSE)

24

25 MS. MARLA BOYD: It -- it's a specific

1 point in time calculation, so that represents the best
2 financial picture of the Corporation's debt and equity at
3 that particular point in time. Having moved to finance
4 expense once it's actually realized it then flows through
5 the calculation. I hope that answers your question.

6 THE CHAIRPERSON: I understand what
7 you're saying.

8 MS. MARLA BOYD: Mr. Chairman, I'm -- I'm
9 at your discretion. It's kind of heavy sledding, but if
10 you -- I have a few more sections I can go through. If
11 you'd like to take a break, we can do that now. It's --
12 it's really up to you.

13 THE CHAIRPERSON: Well, you might as well
14 carry on for a while, Ms. Boyd. We're wide awake.

15

16 CONTINUED BY MS. MARLA BOYD:

17 MS. MARLA BOYD: Good. Thank you.
18 You'll let me know if that changes.

19 Turning to slide 22. With respect to the
20 Chairman's question regarding the implications associated
21 with interest rates, and as stated on page 13 of IFF-110,
22 filed as Appendix 76, currently about 20 percent of
23 Manitoba Hydro's debt is in floating rate instruments.
24 It is assumed that Manitoba Hydro will maintain floating
25 rate debt at current levels throughout the forecast

1 period. This 20 percent figure is not only indicative of
2 a historical average and actual experience, but is also
3 in the midpoint of the Corporation's 15 to 25 percent
4 target range for floating rate debt.

5 As is indicated on page 18 of IFF-10, a
6 change of plus or minus 1 percent in the forecasted
7 interest rates will have an impact of approximately \$430
8 million over the ten (10) year period in the IFF. The
9 risk is effectively managed by maintaining the
10 appropriate balance between fixed and floating rate debt.
11 Manitoba Hydro's target range of floating rate debt
12 between 25 -- 15 and 25 percent strikes the appropriate
13 balance and is supported by the analysis of the National
14 Bank Financial.

15 Mr. McCormick's calculation of gross
16 interest expense savings of \$5 million through the
17 increased use of floating rate debt is seriously flawed.
18 This calculation only considers the interest costs
19 associated with the floating rate assigned in the front
20 end of the debt stream and ignores the fact that in a
21 thirty (30) year life cycle debt will have many interest
22 rate resets or refinancings. Manitoba Hydro Exhibit 43
23 demonstrates that over the total life of the debt,
24 floating interest rates are only cheaper if, and it's a
25 big if, future interest rates are lower than the

1 forecasted interest rates originally priced into the
2 floating rate contract. It is pure speculation and
3 requires the Corporation to take a speculative market
4 view to endorse Mr. McCormick's proposal.

5 With respect to the use of interest rate
6 caps, CAC/MSOS has indicated that the use of these
7 derivatives may have what he called insurance value,
8 presumably to limit the interest rate risk associated
9 with the floating rate -- floating rate debt. What Mr.
10 McCormick omitted to reveal until cross-examination is
11 that interest rate caps require the cash payment of an
12 upfront premium. The amount of the premium will depend
13 on the -- a variety of factors, but it is pure conjecture
14 to -- to suggest that that would be small, as was
15 outlined on page 8,430, when in order to have any
16 meaningful potential benefit the premium may in fact cost
17 ratepayers millions of dollars.

18 Turning to slide 23, and with respect to
19 differences between forecast and actual results,
20 CAC/MSOS's position is that any underforecasting of
21 export revenues, or overforecasting of finance expense by
22 Manitoba Hydro results in consumer's rate increases being
23 higher than they what -- otherwise would have needed to
24 be and that consumers will be harmed by this.

25 Manitoba Hydro does not agree with this

1 viewpoint and observes that any variances between actual
2 and forecast revenues and expenses do not harm ratepayers
3 as a result of the self-correcting nature of the cost of
4 service rate setting model. Under this model any
5 variance between actual and forecast revenues and
6 expenses flow to retained earnings. The current and
7 future expected level of retained earnings is one of the
8 prime considerations in determining future rate
9 increases. And as such, any positive variances will
10 serve to reduce future rate increases.

11 The current cost of service rate setting
12 model, coupled with Manitoba Hydro's general rate making
13 approach of gradualism and sensitivity to customer
14 impacts has and continues to provide the flexibility that
15 is necessary to ensure rate stability for ratepayers, and
16 allows for the most appropriate rate setting responses
17 based upon current circumstances and future financial
18 projections.

19 Turning to slide 24. Despite what we view
20 to be rather obvious conclusions, CAC/MSOS goes on to
21 recommend what has been referred to as a rate
22 stabilization mechanism, RSM. In reality this is simply
23 an export revenue deferral account. The proposal will
24 result in an automatic amortization of variances each and
25 every year. CAC/MSOS quotes the National Bank report

1 that the primary source of net income variability relates
2 to the substantial level of hydrology risk at transcript
3 page 7,660.

4 So it would seem rather counterintuitive
5 to underpin a rate stabilizing mech -- mechanism on the
6 very variable that is the primary source of volatility
7 for the Corporation. Not surprisingly, deferral accounts
8 tend to produce an up and down effect on customer's
9 bills, as was confirmed by CAC/MSOS at transcript page
10 7,814, and that conflicts with the rate stabil -- rate
11 stabilizing objective.

In addition to rate volatility from year to year, amortization of variances may or may not coincide with significant financial losses or other financial and rate setting signals that are prevalent at the time.

1 percent, while the PUB found it appropriate to increase
2 rates in 2005 by 5 percent. And you'll find that
3 discussion at transcript page 7,808.

4 In their final submission, CAC/MSOS claims
5 that Manitoba Hydro and MIPUG do not fully understand the
6 RSM. Without a doubt, Manitoba Hydro comprehends the
7 mechanics, but simply disagrees with CAC/MSOS in that the
8 outcome does not achieve the objective purpose -- the
9 intended purpose.

10 CAC/MSOS makes the assertion that the
11 counterintuitive RSM impacts could be mitigated by the
12 inclusion of imports in the variance calculation. And
13 quoting from page 8,448 of the transcript:

14 "If one threw in imported power, the
15 result would be a little bit different,
16 and also it'd be a little bit different
17 -- a little bit lower in terms of the
18 zero line. The second point though is
19 that this is exactly what a rate
20 stabilization mechanism should be
21 doing, is that it should be muting the
22 effect of adverse events."

23 Close quote.

24 Manitoba Hydro notes that CAC/MSOS has not
25 provided any evidence to support that assertion.

1 However, when the assertion is tested, Manitoba Hydro
2 finds the inclusion of fuel and power purchases has quite
3 the opposite effect from what CAC/MSOS expects.
4 Replacing gross exports with net exports in the CAC/MSOS
5 example will result in increased variability in seven (7)
6 out of nine (9) years. Over the nine (9) year period,
7 the cumulative variance is much lower than the \$440
8 million cumulative amount that CAC/MSOS provided in
9 direct evidence. This supports Manitoba Hydro's position
10 that, over time, actual to forecast variances balance
11 out, that is, the high flow years -- in the high flow
12 years forecasts tend to be underforecast, and in the low
13 flow years, overforecast. Such is the nature of a median
14 flow forecasting methodology.

15 CAC/MSOS attempts to dismiss the notion
16 that there will be incremental impacts to Manitoba
17 Hydro's debt financing and associated fixed interest
18 charges, disagreeing with MIPUG's proposition that
19 Manitoba Hydro would have to generate an additional \$124
20 million, and that's comprised at 16 million in 2002, 55
21 million in 2003, 44 million in 2004, and 9 million in
22 2005, as was reviewed on transcript pages 7,809 and
23 7,810, under their example.

24 CAC/MSOS argues that the Corporation
25 already had that money through the recovery of

1 overestimated net export revenues in domestic rate
2 increases granted in previous GRA proceedings. However,
3 given that Manitoba Hydro's capital and maintenance
4 projects are justified on the basis of safety,
5 reliability, environmental sustainability, and efficiency
6 of operations, and all other things remaining equal, the
7 Corporation would have had to generate amounts equivalent
8 to those RSM variance amounts that would otherwise have
9 been reinvested in those projects.

10 Mr. Matwichuk later conceded that Manitoba
11 Hydro would in fact have to borrow an incremental \$100
12 million in 2003 and 2004, which he dismissed as a drop in
13 the bucket at transcript pages 7,829 through 7,832.

14 Manitoba Hydro and at least some of the
15 other participants in this proceeding do not share CAC's
16 point of view. Particularly in an already difficult
17 financial circumstance such as a drought, it runs
18 contrary to Manitoba Hydro's long-standing goal of
19 strengthening the Corporation's financial position and
20 being sensitive to the circumstances of ratepayers to
21 require rate increases in order to fund the -- the
22 deferral account.

23 Turning to slide 25, the Chairman -- Mr.
24 Chairman, on page 8,324 of the transcript, you asked:
25 Should the Board establish an interest rate deferral

1 account to capture the forecast variances of interest
2 costs, given the major debt borrowings being contemplated
3 in the forecast?

4 The interest cost deferral account
5 advocated by Mr. McCormick was discussed by Manitoba
6 Hydro on pages 17 through 19 of our rebuttal evidence.
7 An associated discussion on the deferral mechanism
8 underpinning the rate stabilization reserve, as was
9 recommended by Mr. Matwichuk, was also addressed on pages
10 6 through 9 of the rebuttal evidence. A summary of
11 Manitoba Hydro's position on the matter of deferral
12 accounts is stated on page 37 of the rebuttal evidence.

13 Manitoba Hydro's rates are set under a
14 rigorous cost of service methodology and not a rate based
15 rate of return approach. Retained earnings and net
16 income of Manitoba Hydro are held for the benefit of
17 ratepayers. Accordingly, Manitoba Hydro's position,
18 consistent with Order 128/09, remains that interest or
19 finance expense deferral accounts are neither necessary
20 nor appropriate.

21 Manitoba Hydro submits that the
22 recommended CAC/MSOS rate stabilization mechanism and
23 interest deferral accounts would limit the flexibility of
24 the current approach by moving to mechanistic constructs
25 that offer no net benefits to ratepayers and would result

1 in more rate volatility for customers.

2 The self-correcting cost of service model
3 has served and will continue to serve Manitoba ratepayers
4 much better than a series of deferral accounts. Manitoba
5 Hydro's electric GRA is based on a rigorous cost of
6 service mechanism and is not a rate-based rate of return
7 approach more commonly seen in jurisdictions such as
8 Alberta. The self-correcting cost of service rate
9 mechanism is well-known to the PUB, to Manitoba Hydro,
10 and to all Intervenors. A summary of the advantages of
11 this approach was previously described by Manitoba Hydro
12 in its rebuttal evidence on page 19.

13 One of the advantages of regulation on a
14 cost of service basis is that any variance from forecast,
15 not only finance expense but in any line item of our
16 operating forecast, any variance flows through to
17 retained earnings, either debit or credit. And whenever
18 we come forward with a rate application we look at the
19 level of retained earnings and make an assessment as to
20 whether or not, or what magnitude, if any, the rate
21 increase should be. So the attractiveness of a cost of
22 service methodology: it's self-correcting. So any kind
23 of variance that occurs at any time on any item is
24 corrected through bal -- the balance in the retained
25 earnings.

1 In contrast, both of the deferral
2 mechanism accounts -- deferral account mechanisms
3 advocated by Mr. Matwichuk and Mr. McCormick are derived
4 from a rate based rate of return regulatory model. In
5 that model, deferral accounts seek to provide ratepayers
6 with a mechanism to recoup surplus returns that might
7 otherwise be distributed outside of the corpora --
8 Corporation to its private shareholders. In these
9 circumstances, once the return has been earned, absent a
10 deferral account, it is possible that a recovery may not
11 occur. However, as a Crown corporation regulated on a
12 cost of service basis, these mechanisms are not needed
13 for Manitoba Hydro.

14 These issues have consumed significant
15 amounts of valuable regulatory time for something which
16 brings absolutely no value to Manitoba Hydro, to the
17 Public Utility Board, or to ratepayers. We would
18 strongly encourage the Board to reiterate its findings
19 from Order 128/09 and to give clear direction to CAC/MSOS
20 that these issues ought to be considered closed.

21 Mr. Chairman, there were a number of other
22 revenue requirement issues that were raised during the
23 hearing, and that I'd like to address, which include
24 operating and administrative costs, IFRS and implications
25 to rate setting, capital cost estimates, Manitoba Hydro's

1 capitalization percen -- practices, and intergenerational
2 equity considerations.

3 I see you're looking at the clock, Mr.
4 Mayer. Would you like me to carry on, or would you like
5 to take your break?

6 THE CHAIRPERSON: It's quite a
7 significant area that you're moving into, and --

8 MS. MARLA BOYD: Yes.

9 THE CHAIRPERSON: -- leaving others, so
10 perhaps we'll take the break now. Thank you.

11

12 --- Upon recessing at 10:36 a.m.

13 --- Upon resuming at 11:02 a.m.

14

15 THE CHAIRPERSON: Okay. Welcome back,
16 everyone. Ms. Boyd, do you want to continue?

17

18 CONTINUED BY MS. MARLA BOYD:

19 MS. MARLA BOYD: Thank you, yes. I'm
20 picking up on slide 27. With respect to operating and
21 administrative costs, Manitoba Hydro incurs OM&A costs to
22 ensure the continued safe and reliable delivery of
23 service to its customers. In the delivery of this
24 service, Manitoba Hydro has experienced and continues to
25 experience increased costs primarily related to aging

1 infrastructure, higher environmental and regulatory
2 requirements, and to customer additions and new
3 facilities.

4 In recent times, there have also been
5 significant cost pressures relating to accounting
6 changes, competitive wage pressures, higher material and
7 commodity prices, pension investment performance, and
8 very significantly there has been an urgent necessity to
9 hire and train a new generation of workers to replace
10 those that have retired or are expected to retire in the
11 near future.

12 These costs in business pressures have
13 been discussed throughout this proceeding, in the
14 application, in the numerous responses to information
15 requests, in the rebuttal evidence, in the direct
16 evidence provided by Mr. Warden on pages 337 to 343 of
17 the transcript, and his presentation which is provided in
18 Manitoba Hydro's Exhibit 12.

19 In summary, the majority of the cost
20 increase relates to accounting changes which has resulted
21 in an annual increase to operating and administrative
22 cost of \$30 million since 2007/'08, to general cost
23 escalation, and to wages and salaries which constitutes
24 approximately 75 percent of Manitoba Hydro's operating
25 costs.

1 Wage and salary cost increases are
2 primarily related to the requirement for additional
3 trainees and also competitive wage pressures. As
4 indicated by Mr. Warden, based on a recent review of
5 current salaries at Manitoba Hydro -- based on a recent
6 review, current salaries at Manitoba Hydro are in the
7 order of 10 to 20 percent lower than those at SaskPower.
8 It is essential to develop and sustain well-trained
9 employees to maintain a safe and reliable system, and to
10 accomplish this employees must be compensated fairly.
11 Manitoba Hydro is prudently managing these cost pressures
12 after allowing for accounting changes which result in the
13 expensing of costs that would previously have been
14 capitalised.

15 Operating and administrative costs are
16 forecast to rise by an annual average of 3 percent
17 between 2004/'05 and 2011/'12. This increase is above
18 the projected CPI inflation level of 1.7 percent
19 forecasted for the same period. That -- that increase,
20 the 3 percent, is above the projected CPI of 1.7 forecast
21 for the same period, as you've seen in Manitoba Hydro's
22 Exhibit 19, which you'll find at Tab 12 of our book of
23 documents.

24 An important point to recognise is that
25 CPI measures the cost changes in a standard basket of

1 goods to a general consumer. The cost input to a
2 business like Manitoba Hydro move more in line with
3 changes to wages, benefits, fuel, material, and
4 contractor services. If you look at indices like average
5 weekly earnings, industrial price indexes, and raw
6 material price indexes, during the period since the last
7 GRA, the cost of these business inputs have risen at a
8 much higher rate than CPI.

9 This further serves to demonstrate the
10 cost pressures facing the Corporation and that the cost
11 containment efforts at Manitoba Hydro have been
12 successful. Despite the fact that its costs are rising
13 at a rate higher than CPI, Manitoba Hydro has held its
14 operating and administrative cost per customer increases
15 to approximately the same level as CPI over the review
16 period after considering accounting changes during the
17 period. This is illustrated in CAC/MSOS Exhibit 2, Table
18 5, which shows that both the increase in CPI and Manitoba
19 Hydro's operating and administrative cost per customer
20 after deducting accounting charges are in the order of 9
21 percent between 2006/'07 and 2011/'12.

22 Comparative neighbouring utilities,
23 SaskPower and BC Hydro, who are experiencing similar cost
24 pressures, have experienced substantially higher
25 increases in OM&A cost per customer over the period 2005

1 to 2010, and this fact has been demonstrated on page 16
2 of Manitoba Hydro's rebuttal evidence, which has been
3 reproduced at Tab 13 of our book of documents. And
4 you'll see that in a graphical form at that page 16.

5 Now, while pointing to concerns with OM&A,
6 Intervenors have had little to say with regard to the
7 specifics of the operating and administrative cost
8 experience and forecasts with the exception of making
9 reference to Mr. Brennan's memos which I've dealt with
10 previously.

11 Manitoba Hydro is maintaining vigilance
12 over its costs and is exercising appropriate cost control
13 measures where and when appropriate to ensure that cost
14 and service levels continue to be in line with customer
15 requirements and expectations. Cost control measures are
16 embedded in the ongoing budgetary process at Manitoba
17 Hydro. As Mr. Warden described on pages 5,665 through
18 5,668 of the transcript, the budgetary process used at
19 Manitoba Hydro involves and requires all levels of the
20 organization to assess and act on the best cost saving
21 opportunities while ensuring that there's no unacceptable
22 operational consequences.

23 After considering accounting changes,
24 Manitoba Hydro's forecast operating and administrative
25 costs of 2011/'12 and '12/'13 show only very moderate

1 increases of \$2 million or .06 percent and \$3 million or
2 .9 percent respectively. I'm sorry, I think I said .06.
3 It's .6 percent and .9 percent respectively when CPI
4 during that same period is forecast to be between 1.6 and
5 1.9 percent.

Simply stated, Manitoba Hydro has responded to the recent cost increases by essentially holding operating and administrative budget levels for the 2010/'11 and '11 and '12 net of accounting changes at or near the level of actual costs for 2009/'10. Most importantly, Manitoba Hydro is on track to achieve those forecasts, demonstrating the effectiveness of its operating and administration cost oversight.

14 On slide 29, with respect to IFRS, as
15 you're aware, Manitoba Hydro IFRS-compliant accounting
16 will be required for the 2012/'13 fiscal year, with
17 restated comparative reporting for 2011/'12.

18 In this proceeding Manitoba Hydro filed an
19 IFRS status update report dated October 31st, 2010, which
20 provided an overview of the IFRS considerations for the
21 Corporation, the progress to date, and an indication of
22 future IFRS changes and the next steps in the project.

For IFF-10, Manitoba Hydro has projected what it considered the most likely known impacts of the conversion of IFRS into its forecast. These impacts

1 included reduction to overhead amounts capitalized with a
2 corresponding increase in -- in operating costs and the
3 write-off to retained earnings of amounts previously
4 capitalized or deferred along with corresponding
5 reductions to depreciation and amortization expense.

6 Subsequent to the finalization of IFF-10
7 and the IFRS status update report, as you'll see on slide
8 30, it has become apparent that it's unlikely that the
9 recognition of regulatory assets and liabilities will be
10 allowed under IFRS. As such, there may be a requirement
11 to write off existing regulatory assets to retained
12 earnings and the related costs will have to be expensed
13 as incurred from that time forward. There is also the
14 possibility of future reductions in the amount of
15 overhead costs that can be capitalized under IFRS, which
16 would put further upward pressure on operating and
17 administrative costs.

18 Manitoba Hydro is in the process of
19 completing a new IFRS-compliant depreciation study and
20 the potential impacts of the changes and depreciation
21 rates is not fully known at this time. There is also
22 uncertainty about the accounting treatment of experienced
23 losses on pension assets in terms of whether those losses
24 will be written off to retained earnings, or moved to
25 accumulated other comprehensive income under the current

1 proposal from the I -- IASB, International Accounting
2 Standing -- Standards Board.

3 Further work continues with our auditors
4 to assess and confirm any and all detailed changes that
5 will be necessary to comply with IFRS. The work will
6 continue throughout next year and will consider any new
7 changes to the IFRS standards that may take place. This
8 work may uncover additional requirements to change
9 accounting policies and practices, and further impact the
10 calculation of capital, deferred, and operating costs.

11 In terms of the implications of the
12 conversion to IFRS on the rate setting process, Manitoba
13 Hydro is of the view that any changes to accounting
14 practices can be accommodated within the existing rate
15 setting framework. As IFRS will only result in changes
16 to the timing when certain costs will be recognized for
17 financial reporting purposes, some mechanism may be
18 required to smooth the impact of these costs for rate
19 setting purposes. However, Manitoba Hydro believes that
20 this could be accomplished in a manner that is not overly
21 burdensome and we will -- we will provide the PUB with
22 alternatives to consider at the appropriate time.

23 Now with slide 31 and capital cost
24 estimates. Concern was expressed with regard to the
25 escalating construction cost estimates being experienced

1 by Manitoba Hydro during the decade of investment,
2 particularly with reference to new generation and
3 transmission projects.

9 Although there's been some abatement from the high
10 commodity cost being experienced prior to the economic
11 downturn, construction cost estimates continue to climb
12 and are subject to further increases as the economic
13 environment improves. CEF-10 projects cost estimates --
14 excuse me, CEF-10 project cost estimates fully reflect
15 these expected market conditions.

In addition to the incorporation of expected market prices, project estimates are also reviewed and updated on a regular basis for a number of other factors, including the refinement of project plans and engineering design, scope changes, and changes to project schedules and in-service dates, as well as changes to projected interest and escalation rates. All

24 THE CHAIRPERSON: By escalation rates,
25 Ms. Boyd, you're talking about construction cost

1 escalation?

2 MS. MARLA BOYD: Yes.

3 THE CHAIRPERSON: Thank you.

4

5 CONTINUED BY MS. MARLA BOYD:

6 MS. MARLA BOYD: All of these factors are
7 part of the normal process that is associated with the
8 planning, approval, and construction of large capital
9 projects. CEF-10 project cost estimates fully reflect
10 these factors as well.

11 As part of the ongoing capital budget
12 review process and approval process, capital project
13 justifications, or CPJs, are presented to executive
14 committee for approval whenever a project cost estimate
15 is expected to exceed the currently approved estimate,
16 plus or minus \$1 million. The approval process was
17 explained by Mr. Warden at transcript pages 5,526 through
18 5,530.

19 Because this review and approval process
20 occurs continuously throughout the year, Manitoba Hydro's
21 capital expenditure forecast always reflects the most
22 current approved estimate of the Corporation's future
23 capital plans. It must be emphasized, however, that
24 executive committee approval does not automatically --
25 sorry. Executive committee does not automatically

1 approve all CPJs presented to the committee for approval.
2 In fact, many CPJs are re -- are rejected for a variety
3 of reasons.

4 One (1) of the primary roles of the
5 executive committee is to challenge recommendations
6 presented for approval and to satisfy itself that all
7 recommendations are appropriately justified.

8 Illustrative of this, and as discussed extensively during
9 this proceeding, a CPJ was prepared proposing
10 significantly higher cost estimates for Bipole 3, but
11 this CPJ was not approved by executive committee. Not
12 all members of the executive committee, including the
13 president and CEO, supported the higher cost estimates
14 for Bipole 3. As a result, Manitoba Hydro undertook a
15 comprehensive review of Bipole 3 estimates using external
16 consultants to gain more certainty and confidence in the
17 cost estimates prior to incorporating them into the
18 approved capital expenditure forecast.

19 The -- the process followed for the Bipole
20 3 estimate was totally consistent with Manitoba Hydro's
21 established practice, that is, a revised estimate for a
22 major capital project does not get included in the
23 capital expenditure forecast until it is approved by
24 executive committee. While the quantum of the proposed
25 increase for Bipole 3 was unusually high, the process

1 followed was rigorous and conformed with good governance
2 practice. Manitoba Hydro totally rejects the criticisms
3 put forward by counsel for CAC/MSOS in this regard.

4 With respect to the other major capital
5 facilities being planned, the current approved es -- cost
6 estimates reflect the best information available at this
7 time. There are also upward cost pressures on base
8 capital expenditures that are necessary to maintain
9 existing plant in a safe and reliable manner as well as
10 to provide for ongoing system additions. Base capital
11 expenditures are also subject to the high construction
12 cost environment that has been previously mentioned.

13 THE CHAIRPERSON: Ms. -- Ms. Boyd, with
14 respect to the matter you raised about Bipole 3 with --
15 after -- after the Utility obtained their -- the
16 engineering advice and the new approved estimate arose,
17 that estimate -- please correct me if I'm wrong. My
18 interpretation of it was that it excluded finance costs
19 and it also employed a -- an engineering approach that
20 was somewhat sub -- suspect.

21 Is -- is that correct?

22 MS. MARLA BOYD: I -- no, I certainly
23 wouldn't have described the process as suspect. It
24 certainly reflected an advancement in the -- the
25 technology and was considered very carefully by the

1 experts prior to being updated. The finance costs are
2 included in the estimate that is -- is before you as
3 well.

4 MR. ROBERT MAYER: The issue of those --
5 the -- what seems to have been called new technology,
6 there doesn't appear to be, in the reports that I was
7 reading, total confidence that that will be sufficient to
8 make the converter stations function as they should.
9 Now, I'm not sure who gets to make that argument but that
10 -- but the bottom line was that there's a significant
11 amount of money not being budgeted based upon the fact
12 that they can use -- and I -- I don't know much about
13 what this equipment does, but it has something to do with
14 the converter stations and there's a significant amount
15 of money not being spent if the technology being
16 estimated does in fact work in the converter stations.
17 That is my understanding of the evidence.

18 MS. MARLA BOYD: I believe it's already
19 on the record, Mr. Mayer, and I -- I apologize, I don't
20 have the transcript reference available, but that
21 technology has been used elsewhere and it is at this time
22 Manitoba Hydro -- Hydro's expectation that it -- that
23 it's available to us. That's the reason for that
24 estimate being included.

25 MR. ROBERT MAYER: Do we know where it's

1 been used? I thought we were almost unique in the kind
2 of -- the way -- because of where our power resources are
3 located, I thought we were just about unique in that --
4 in that area. Who else is using converter stations like
5 ours?

6

7 (BRIEF PAUSE)

8

9 CONTINUED BY MS. MARLA BOYD:

10 MS. MARLA BOYD: I -- I don't have the
11 specific locations for you at this point. I'm happy to
12 file it with you. We -- we understand it to be used
13 worldwide so we don't expect that it's that unusual, but
14 as to the particulars of your request we'll -- we'll have
15 to obtain that for you and file it perhaps by letter.

16 No, I don't take those for myself. I
17 think we called them friendly undertakings a little while
18 ago but we'll call it a commitment today.

With respect to the upward cost pressures on base capital expenditures, as we've discussed, those are necessary to maintain existing plant in a safe and reliable manner and to provide for ongoing system additions. Those expenditures are also subject to the same forces of the high construction cost environment that we've previously discussed.

1 Other factors that contribute to the
2 upward pressure include the age of the Manitoba electric
3 infrastructure, more stringent safety and environmental
4 standards, and welcome growth in the Manitoba economy
5 that adds demand for additional electric services by
6 customers.

7 As a final note on the capital cost
8 estimates, I wanted to provide a brief history on the
9 capital cost estimate of Wuskwatim, as I believe the
10 Vice-Chair expressed an interest in this. At the time of
11 the filing of the Clean Environment Commission filing,
12 the capital cost estimate for Wuskwatim was \$756 million
13 for the generating station and \$145 million for the
14 transmission line, for a total cost estimate of \$901
15 million. The timing of Wuskwatim was such that it was
16 affected by unprecedented increases in market prices for
17 construction and equipment, which resulted in the
18 estimate being revised to 988 million in 2003, 1.1
19 billion in 2005, 1.4 billion in 2006, and 1.6 billion in
20 2007. The \$1.6 billion cost estimate remains the cost --
21 capital cost estimate for Wuskwatim today, which is
22 comprised of \$1.3 billion for the generating station and
23 \$.3 billion for the transmission line.

24 Moving to slide 33, Mr. Chairman, you have
25 expressed a concern that Manitoba Hydro's practices

1 relating to the -- to the deferral and capitalization of
2 expenses may result in current ratepayers not paying a
3 sufficient amount of currently incurred costs, which
4 could result in future ratepayers being burdened with
5 these costs.

6 Manitoba Hydro does not share this view.
7 To the contrary, Manitoba Hydro has recognized that
8 industry and accounting standards are moving away from
9 full cost accounting and has taken steps to adjust its
10 practices accordingly. As evidenced in this proceeding,
11 Manitoba Hydro has adjusted its accounting such that
12 approximately \$30 million of costs that were previously
13 capitalized are now being expensed annually. These costs
14 relate primarily to administrative functions and the
15 interest costs of tools and facilities that are used both
16 in the operation and construction activities of the
17 Company.

18 The changes made to date by Manitoba Hydro
19 are consistent with the overall direction of IFRS and are
20 consistent with evolving industry practices. Manitoba
21 Hydro has always followed Canadian generally accepted
22 accounting principles and will continue to do so.

23 These changes are also consistent with the
24 specific recommendation of the PUB in Order 116/08 at
25 page 389, item number 2, which states, and I quote:

1 "The Board remains concerned at the
2 Corporation's ongoing aggressive
3 deferral and capitalization accounting
4 practices and recommends that Manitoba
5 Hydro consider an early adoption of
6 IFRS standards."

7 Close quote. Costs eligible for capitalization under
8 IFRS will be more restrictive than under current Canadian
9 generally accepted accounting principles, and Manitoba
10 Hydro is currently reviewing this with its auditors.

11 From a rate making perspective, the
12 application of Manitoba Hydro's capitalization practices
13 ensures that current ratepayers are contributing only to
14 the costs related to the period in which the assets are
15 used and useful. These practices were outlined by Mr.
16 Warden on pages 8,040 to 8,043 of the transcript.

17 There has been some suggestion that rate
18 increases to maintain or enhance the Corporation's debt-
19 equity ratio, and to position Manitoba Hydro for the
20 decade of investment, amounts to pre-funding of equity
21 for the construction of new major generation and
22 transmission facilities.

23 Manitoba Hydro does not agree that the
24 relatively modest rate increases necessary to maintain an
25 adequate capital structure during the decade of

1 investment constitute an intergenerational equity issue.

2 Given that Manitoba Hydro's mandate is to
3 provide for a continuance of the supply of energy to meet
4 the needs of the province, it is continually investing
5 its fixed assets to maintain an enhanced capacity. As
6 such, the required level of these coup -- capital
7 expenditures, and the associated risks and uncertainties,
8 are factored into the financial projections, business
9 decisions, and rate proposals to ensure the ongoing
10 prudent financial management of the Corporation.

11 Manitoba Hydro submits that taking
12 advantage of export opportunities to advance the in-
13 service dates of new generation facilities and using the
14 returns from these investments to help finance a
15 significant portion of the associated capital
16 expenditures in advance of their need is highly
17 beneficial to Manitoba ratepayers. Manitoba Hydro has
18 been successful in the past in using this approach with
19 such plants as Limestone and is confident that this
20 approach will be successful in the future with Wuskwatim,
21 Keeyask, and Conawapa generating stations.

22 In using this approach it should be
23 recognized that an investment of the size and magnitude
24 of a generating station with a useful life that will
25 spend numerous decades will not recover all fixed and

1 variable costs in the first two (2) or three (3) years of
2 operation but rather will generate substantial returns
3 for the Corporation and ratepayers in the long-run.

4 It is also recognized that the -- the
5 economics of an investment of this nature should be
6 evaluated over the long-term as there will be many
7 business and economic cycles during its life cycle and
8 evaluations based on short-term market circumstances will
9 often produce poor decisions or erroneous conclusions.

10 In the interim, while the costs of the new
11 generating station are coming into the revenue
12 requirement, it is appropriate that current ratepayers
13 contribute something toward the upward pressure on rates
14 through moderate rate increases. As has been noted, many
15 of the current ratepayers are enjoying the benefits of
16 similar contributions by past generations as well as the
17 economic benefits associated with these mega-projects and
18 will enjo -- enjoy the benefits of new generating
19 capacity in the future.

20 In order to correctly think about the
21 intergenerational equity in a business that co --
22 requires continuous investment and reinvestment one must
23 take a long view. And it's certainly not possible to
24 define generational boundaries. One (1) thing that is
25 certain, however, is that the cost of new and replacement

1 generating capacity will be at a significantly higher
2 cost than the historic embedded cost and it is
3 appropriate to gradually increase re -- rates to
4 recognize this eventuality. Given that Manitoba Hydro
5 has the lowest rates in North America, there is capacity
6 to do this gradually while at the same time being
7 sensitive to customer impacts.

8 In summary, when you consider Manitoba
9 Hydro's mandate and business characteristics, the
10 Corporation is confident that the PUB will find that its
11 proposed approach to rate increases is the most
12 appropriate and prudent way to financially manage future
13 investments in generating capacity while at the same time
14 balancing fairness to ratepayers and intergenerational
15 considerations.

16 I'm going to turn my -- the mic back over
17 to Ms. Ramage and allow her to move forward. Thanks.

18 MS. PATTI RAMAGE: Thank you. And I'll
19 begin at slide 37 dealing with the load forecast. During
20 the hearing a number of comments were made regarding
21 Manitoba Hydro's load forecast. Manitoba Hydro feels it
22 important to comment on the load forecast given its
23 significance in producing the IFF and power resource
24 plan.

25 Dr. Kubursi and Magee's review of the load

1 forecast was generally very positive, and I'm quoting
2 here from the KM report at page 116.

3 "The combination of survey results,
4 technical and engineering information,
5 and regression techniques result in a
6 rich base for the forecast. The
7 forecasting accuracy is deemed
8 reasonable for the five (5) year
9 period, and the move to integrate
10 probabilistic forecasts is encouraging.
11 The people responsible for maintaining
12 and running the model are competent,
13 enthusiastic about their work, and
14 dedicated."

15 Manitoba Hydro recognizes that, as with
16 all forecasts, the load forecast contains a level of
17 uncertainty as it extends into the future. The reality
18 is that Manitoba Hydro is in a long-term business. As a
19 result, Manitoba Hydro requires that its forecast be
20 reviewed on an annual basis. Each year, Manitoba Hydro
21 updates its electric forecast to incorporate the latest
22 data as well as economic, energy prices, and large
23 customer information. Models are re-estimated and
24 improved where possible to meet the objective of
25 producing a reasonable and unbiased forecast of

1 electricity consumption.

2 Manitoba Hydro would also comment that
3 forecast errors do not increase exponentially over time
4 but rather grow linearly. Longer-term forecasts are
5 inherently less accurate than short forecasts regardless
6 of how often they're revisited. However, for extended
7 planning purposes, longer-term forecasts are not so
8 inaccurate that they cannot or should not be used and
9 relied upon for planning. Since the forecast is
10 revisited each year, the long term forecast will
11 get corrected and will become more accurate as it
12 transitions from long-term to short-term. This allows
13 for small adjustments each year to Manitoba Hydro's long-
14 term plans, and this minimizes the effect of any
15 inaccuracy in the long-term forecasts.

16 Turning to slide 38. In your comments on
17 January 31st, Mr. Chairman, you expressed the concern
18 with a number of items included in Manitoba Hydro
19 forecast that had the potential to lead to poorer
20 financial results than Manitoba Hydro was anticipating in
21 its IFF-09 and IFF-10 forecasts. Among these was the
22 reduction in forecast industrial loads between 2009 and
23 2010, in part resulting from the closures of industrial
24 plant.

25 Here I'm referring to your comments at

1 transcript page 2,481. At transcript page 4,182, Mr.
2 Warden addressed this concern, and I'm quoting here:

3 "While it is correct that there have
4 been reductions in forecast load for
5 industrial customers, these forecast
6 reductions are significantly offset by
7 increases in the remaining domestic
8 load, particularly increases in
9 forecasts of residential loads. The
10 industrial load reductions will have
11 little impact on forecast domestic
12 revenues because of the difference in
13 unit prices within the different
14 customer rate classes."

15 Manitoba Hydro also believe that although
16 the 2010 load forecast does not include the planned
17 closure of a large smelting and refin -- refinery plant
18 in 2015, it is expected that other load increases will
19 offset the planned closure, and therefore no downward
20 revision is required to the 2010 load forecast.

21 And before leaving the subject of the load
22 forecast, Manitoba Hydro notes that at page 7 of
23 RCM/TREE's written submission, it is suggested that
24 Manitoba Hydro's electrical consumption is increasing at
25 the rate of 7 percent per year. No reference was

1 provided for that figure and the figure is not supported
2 by the load forecast, which indicates growth in the
3 residential class in the order of 1.8 percent per year.

4 I next wish to deal with Manitoba Hydro's
5 Risk Management Program, which is at slide 40.

6 Manitoba Hydro operates in a capital
7 intensive industry where the supply of energy service is
8 considered a necessity of life by our customers.
9 Consequently, the Corporation has a low tolerance for
10 risk, and has managed it in a manner that makes the
11 likelihood of a prolonged loss of supply as low as
12 possible. While the Corporation has an excellent history
13 in this regard, it continually strives to improve its
14 service reliability through system enhancements such as
15 the Riel Reliability Improvement Initiative, Bipole 3,
16 and potential interconnect improvements that will occur
17 with the proposed new export contracts.

18 MR. ROBERT MAYER: What -- what was the -
19 - that's a new one, Riel what?

20 MS. PATTI RAMAGE: The Riel Reliability
21 Improvement Initiative.

22 MR. ROBERT MAYER: That's something
23 different than the converter station, I'm assuming.

24

25 (BRIEF PAUSE)

1 MS. PATTI RAMAGE: Yeah, it's built
2 independent of whether the converter station goes ahead,
3 but it's related.

4 Manitoba Hydro's current Risk Management
5 Program was first implemented nine (9) years ago. The
6 program serves to formalize Manitoba Hydro risk
7 management practices so as to address corporate-wide
8 business and operational risks in a systematic and
9 integrated way. The program documents major risks,
10 assesses the extent to which these risks could impact the
11 achievement of the Corporation's mission or mandate, it
12 confirms that the actions being taken today to address
13 risk are appropriate, it communicates in a coordinated
14 manner across the Corporation, and it formalizes risk
15 management tolerance levels for each major risk.

16 This work was previously undertaken by
17 line management, but as the industry evolved,
18 particularly in the last ten (10) years, so too have
19 Manitoba Hydro's practices. Dr. Kubursi confirmed this
20 at transcript page 6,772, that Manitoba Hydro's progress
21 in this regard is consistent with industry developments.

22 Manitoba Hydro's risk management structure
23 incorporates several le -- several levels of review and
24 oversight. Executive management is accountable for
25 ensuring that all risks that effect achievement of the

1 Corporation's mandate are appropriately identified and
2 managed. Actual day to day management of risk is the
3 responsibility of line management with the exception that
4 when a risk becomes critical, executive management takes
5 a more active role.

6 The Corporation's risk governance
7 structure segregates duties and reporting relationships
8 for the front, middle, and back office. The middle
9 office is a sing -- single independent function. This
10 has been verified independently by the reviews undertaken
11 and filed in the record of these proceedings.

12 There are several corporate committees
13 that have been established for oversight purposes. These
14 include the executive committee that acts as an -- in an
15 advisory capacity to the president and chief executive
16 officer in addressing issues, initiatives or concerns of
17 corporate significance.

18 A corporate risk management steering
19 committee, or CRMC, with representation from all business
20 units, coordinates risk activities across the
21 Corporation. The CMR -- CRMC is responsible for
22 management guidance, expertise, and process monitoring.

23 A planning review committee reviews the
24 long-term planning issues with corporate-wide
25 implications.

1 Oversight of the energy supply and
2 financial risks resulting from Manitoba Hydro's
3 participation in the export market is performed by an
4 export power risk management committee, or EPRMC.

5 Risk management activities are formally
6 reported on an annual basis in the corporate risk
7 management report. This report is based on input
8 provided by those areas identified as responsible for
9 managing risk. The report is approved by executive
10 management and presented to audit committee of the Board,
11 and to the Manitoba Hydro-Electric Board.

12 Key risks identified in the report are
13 described in risk profile documents which outline a
14 description of the risk, the potential impact of the risk
15 to corporate objectives, risk treatment activities, a
16 rating in terms of consequence, likelihood and tolerance
17 limits, as well as current risk performance in regards to
18 the tolerance. It is of note that Dr. Kubursi confirmed,
19 at transcript page 6,334, that Manitoba Hydro has
20 appropriately identified its significant risks. And I
21 quote:

22 "I think Manitoba Hydro has done a
23 great job in identifying the
24 qualitative risks and have a good
25 listing: forty-eight (48) categories

1 and eleven (11) categories, and forty-
2 eight (48) subcategories."

3 Both KPMG and KM, which is how I'll be
4 referring to Kubursi and Magee's together, they both
5 reviewed Manitoba Hydro's risk management program, and
6 both substantively accepted the program. Both made
7 recommendations for its future evolution. In particular,
8 KPMG concluded, at page 20 -- 220 of their report, and I
9 quote:

10 "Manitoba Hydro risk governance
11 policies and reporting relationships,
12 including the role of the middle
13 office, are evolving appropriately.
14 The export power middle office is a
15 single, independent, risk-management
16 function. It is steadily progressing
17 in terms of its responsibilities for
18 measuring, monitoring, controlling, and
19 reporting the risks associated with
20 power supply and operations,
21 opportunity power sales activities."

22 Frank Chen of KPMG spoke to KPMG's
23 assessment of Manitoba Hydro's risk management program
24 during oral testim -- testimony. He said, at transcript
25 page 3,176 -- and I'm going to take the liberty, Mr.

1 Chairman, in the transcript references, of -- sometimes I
2 find -- and this is not directed at Mr. Chen, but there -
3 - people stutter or repeat words. I'm going to try to
4 read it so that it -- it reads as complete sentences and
5 -- and leave out those extras:

6 "Manitoba Hydro demonstrated prudent
7 risk management practices in the
8 following areas. They have extensive
9 corporate oversight, as I previously
10 described, with a deliberate internal
11 review process over major export
12 contracts and the term sheet process.
13 Their analytics include stress testing,
14 which is, by our view, conservative,
15 with an industry-accepted methodology.
16 Transacting processing controls are
17 consistent with prevailing practices
18 that mitigate human error and
19 operational risk. Compliance and risk
20 monitoring is performed by an
21 independent middle office, and there is
22 a comprehensive suite of management and
23 performance reports that are generated
24 by the back office."

25 At transcript page 5,961, after reviewing

1 a number of the best-practice guidelines in risk
2 management, Dr. Kubursi said:

3 "And that the story is -- then we went
4 and tried to see that if this best-
5 practice section that I've talked about
6 were applied to Manitoba Hydro on a
7 piece-by-piece basis, how does the
8 picture come about? We were happy with
9 what Manitoba Hydro was doing."

10 As noted, the various consultants did, as
11 one would expect, make recommendations. Dr. Kubursi went
12 on to state:

13 "We would be far happier to see that
14 there's an individual responsibility
15 matrix that we know corresponding to
16 every risk."

17 This recommendation also appears at doc --
18 at page 48 of the KM report.

19 In fact, Manitoba Hydro does have a
20 responsibility matrix, both stand-alone and incorporated
21 in its long-term risk profiles. Dr. Kubursi confirmed in
22 cross-examination that he had not seen these documents at
23 the time they wrote their report, but did review them
24 subsequently; and you'll find that at transcript page
25 6,779.

1 KM also recommended that Manitoba Hydro
2 has preparedness plans for all costly risks -- risks.
3 That can be found at page 50 of their report. Manitoba
4 Hydro addressed this concern by providing Dr. Kubursi
5 with a number of these preparedness plans and arranging
6 for him to meet with Manitoba Hydro's emergency response
7 coordinator during the May break in his oral testimony.
8 At transcript page 6,780, Dr. Kubursi confirmed he had
9 not seen this information at the time they wrote their
10 report. Similarly, Dr. Kubursi confirmed he had not seen
11 Manitoba Hydro's list of training and simulations that
12 have taken place at the time he made the recommendation
13 on page 51 of the KM report, that the Corporation should
14 be engaging in training and simulation games.

15 There appeared to be some confusion
16 regarding the reporting structure associated with the
17 corporate risk management steering committee. The KM
18 report states at page 49:

19 "The CR -- CRMC is now part of finance
20 and administration division and reports
21 to the senior vice president of the
22 division."

23 They go onto state:

24 "Being at the middle office is the
25 appropriate place for the CRMC, but it

1 has to be part of the senior vice
2 president's office, maybe in the first
3 slot. At this time, CRMC is only an
4 advisory body, and is without executive
5 powers. During cross-examination by
6 Manitoba Hydro..."

7 And here's I'm referring to transcript
8 page 6,778:

9 "....Dr. Kubursi confirmed that the CRMC
10 is in fact chaired by the senior vice
11 president of finance and administration
12 and chief executive officer, and is
13 made up of two (2) other members of the
14 executive, together with numerous
15 senior managers including the manager
16 of the middle office."

17 Manitoba Hydro submits the CRMC clearly
18 has executive authority. Manitoba Hydro also agrees with
19 KM that in order to be effective the middle office must
20 have the respect of the organization and the ear of the
21 executive. Manitoba Hydro believes this is best achieved
22 by means such as being designated a member of a group of
23 key decision makers in the Corporation, such as those on
24 the -- on the CRMC, and having access to the executive
25 through that committee.

1 Both KPMG and KM made recommendations
2 regarding the functionality and resourcing of the middle
3 office. At page 220 of their report, KPMG -- KPMG noted
4 -- and here I'm at slide 42:

5 "The export power middle office is
6 undertaking an initiative to improve
7 its risk analytics capabilities. It
8 requires further resources supported by
9 risk analytic software that is
10 integrated with Manitoba Hydro's energy
11 transaction management system,
12 Webtrader. The timeliness of this risk
13 monitoring will continue to improve
14 with added analytic resources and
15 related technologies. KM came to a
16 similar conclusion, recommending that
17 Manitoba Hydro add resources to the
18 middle office in the form of additional
19 risk tools and statisticians to enhance
20 the ability of the middle office to
21 quantify risk."

22 And here I'm referring to transcript page
23 5,963, as well as the KM report at page 50.

24 If we turn to Tab 14 in the book of
25 documents, you'll find Exhibit Manitoba Hydro-88, which

1 outlines the actions taken by Manitoba Hydro subsequent
2 to KPMG's review; notably new positions have been created
3 and staff hired.

4 The external consulting support has been
5 in -- external consulting support has been engaged to
6 assist in the selection of risk analytic tools. The
7 middle office is now participating in the review of
8 proposed term sheets and export contracts. It is also
9 participating in the review of all power sale policies,
10 and is charged with ensuring required updates are fully
11 documented and improved.

12 Manitoba Hydro wishes to emphasize that
13 many of these initiatives were underway prior to KPMG, or
14 KM's review, as both consultants state risk management is
15 a continually evolving process that must be continually
16 managed.

17 We do not expect that there is ever going
18 to be a point in time when Manitoba Hydro can put down
19 its pens and say: We've done everything there is to do.
20 The most important thing that you can take from the
21 evidence in this area, is that risk management is evolve
22 -- is an evolving process and that at Manitoba Hydro risk
23 management is evolving appropriately.

24 MIPUG accurately summarized the
25 conclusions of the consultants' reports on page 34 and 35

1 of their evidence, and they said:

2 "For all intense and purposes, it
3 appears all the major reports conclude
4 that Hydro's systems and approaches for
5 managing risk, particularly risks
6 related to bulk power and marketing,
7 are reasonable. Each notes that there
8 are means to improve or strengthen risk
9 management practices via changes that
10 are appropriately in the realm of
11 Hydro's management team and not the
12 regulatory form."

13 If I could turn to -- the slide, page 40
14 through -- 3.

15 Both KM and CAC/MSOS evidence theorizes
16 that there may be misaligned risk tolerances between
17 Manitoba Hydro and its domestic ratepayers. Manitoba
18 Hydro strongly disagrees with this theory.

19 As a Crown corporation, all of Manitoba
20 Hydro's activities are focussed on delivering service and
21 value to ratepayers. Manitoba Hydro has no mandate or
22 motive to enrich a select group of shareholders.

23 The ultimate shareholders of Manitoba
24 Hydro are the ratepayers and the citizens of the
25 province. As such, Manitoba Hydro's risk tolerance are

1 totally aligned with its ratepayers. While KM theorised
2 Manitoba Hydro was prepared to take on more risk based on
3 the sweeping generalisation that the corp -- that
4 corporations are less risk adverse, they do not point to
5 any substantive evidence to support their theory as it
6 relates to Manitoba Hydro.

7 Mr. Hacault cross-examined KM on this
8 point, at which time Dr. Kubursi acknowledged that they
9 did not have empirical evidence such as survey data to
10 substantiate their point. And they went -- and he went
11 on to state, and I'm quoting:

12 "We're raising here the issue about the
13 existence of multiple parties and the
14 theoretical issue of having different
15 tolerance for risk."

16 And that's at transcript page 6,605. No
17 witness pointed to a particular action or inaction on the
18 part of Manitoba Hydro that suggested a higher tolerance
19 for risk.

20 Based on ICF, KPMG, and KM's relative
21 unanimity in supporting the appropriateness of Manitoba
22 Hydro's participation in the export market and the
23 direction of Hydro's recommended development plan, the
24 MIPUG witnesses stated that, I am quoting:

25 "These conclusions accord well with the

understood risk tolerance of Manitoba
ratepayers."

3 And there I'm quoting from page 35 of
4 MIPUG's pre-filed testimony. This strongly supports
5 Manitoba Hydro's view that its risk tolerances are
6 aligned with those of its ratepayers.

7 KM expressed the view that the PUB is the
8 only mechanism to review Manitoba Hydro's risk tolerance.
9 Contrary to this statement, various levels of internal
10 and governmental review, the Manitoba Hydro Electric
11 Board, Crown Corporation's counsel, standing committee of
12 the Legislature, the Lieutenant Governor in Council,
13 Auditor General of Manitoba, as well as a number of
14 federal and provincial regulatory bodies, in addition to
15 the PUB, provide ample opportunity to assess Manitoba
16 Hydro's performance in managing risk.

17 KM also raised the issue of moral hazard;
18 again, a theoretical issue. The theory undoubtedly
19 applies to some parties in some situations but certainly
20 not to all. Ask yourself: Do you leave your car doors
21 unlocked and the keys in the ignition just because you
22 have insurance? No, you don't. Just because you can
23 make an insurance claim doesn't mean you want to.

Similarly, people at Manitoba Hydro want to do a good job and are motivated to behave accordingly.

1 As acknowledged by Dr. Kubursi, there are no financial
2 incentives at Manitoba Hydro for its employees to take
3 risk. To the contrary, cur -- KM found Manitoba Hydro
4 staff to be excellent people, knowledgeable people with
5 lots of expertise, commitment, dedication, and knowledge.
6 That was at transcript page 5,969.

7 Review mechanisms are in place and they
8 apparently work. There was no evidence pointing to a
9 regrettable action caused by this theoretical behaviour.

10 In the context of this hearing, the risk
11 we focussed on relate to the export market. Manitoba
12 Hydro vehemently disagrees with any suggestion that it
13 pursu -- pursued increased risk activities in the export
14 market because of the financial backing of the province
15 or its domestic customers. History is evidence that the
16 pursuit of long-term export sales has contributed to
17 reduced domestic rates for all Manitoba customers, as
18 stated by ICF at page 74 of their report.

19 Long-term contracts are appropriate and an
20 important part of Manitoba Hydro's portfolio -- portfolio
21 of export sales arrangements. They help prevent rate
22 shocks and financial problems. They facilitate
23 transmission investment and allow for prices to reflect
24 the benefits of avoided generation investment. They are
25 widely used in the industry, and failure to use them

1 would be inconsistent with prevailing practice. This is
2 especially true when coupled with risk mitigation
3 strategies pursued by Manitoba Hydro.

4 THE CHAIRPERSON: Mr. Ramage, when you
5 say history is evidence, but your twenty (20) year
6 forecast suggest rate increases over a period of time
7 that would be in excess of inflation, how does that jive
8 (sic) with the working in of the preferred development
9 plan? How -- how does the updated IFF, which changed the
10 forecast debt-equity ratio in 2029 from 51:49 to 72:28,
11 or something like that? Or -- or the -- the assumption
12 even in the presentation today that rate increases were
13 required to meet the expected increased cost of new
14 generation assets as they come onboard, which I think
15 everyone can basically realize?

16 How does that suggest that that plan in
17 itself contributes to reduced domestic rates?

18

19 (BRIEF PAUSE)

20

21 MS. PATTI RAMAGE: Thank you, Mr.
22 Chairman. I think if we looked at Exhibit 12, we would
23 see that Manitoba Hydro rates, certainly historically,
24 have been below those of other utilities, and we see that
25 projected outwards they're projected to be lower than

1 other utilities. Those utility rates are rising at a
2 much higher pace than Manitoba Hydros.

3 And we have to look at, not just inflation
4 on its own, but what that component inflation, which is
5 the energy cost, and is Manitoba Hydro's plan, in fact,
6 mitigating that component of -- of rising costs, and how
7 do we compare to other jurisdictions. And I think when
8 we do that you'll see that this plan is doing a good job,
9 a better job, than -- than what it would be in other
10 jurisdictions.

11 THE CHAIRPERSON: But you said before --
12 I think it was acknowledged in the cross-examination of
13 the witnesses -- that the estimate had made that the
14 deferred development plan had a net present value out to,
15 what was it, 2041 of returning something like \$153
16 million of savings, if you like, to domestic customers.
17 But at the same time it was indicated that the capital
18 expenditures to develop that, the increase in that of
19 about, if I recall properly, \$3.2 billion had not taken -
20 - been taken into account.

21 MS. PATTI RAMAGE: That 153 million, I
22 think everyone has to be very cautious with that number,
23 because that number is a number that was intended to deal
24 with a very specific situation, and that was the impact
25 on actual rates outside of the impact on the

1 Corporation's retained earnings from -- from those
2 preferred plans. So you can't -- it's very difficult to
3 look at that number in isolation and -- and ask is -- or
4 -- it certainly isn't the overall benefit to the
5 ratepayer, because that was a number that was projected
6 to deal with only the difference in the rate, but not how
7 the equity in the Corporation would also be impacted by
8 those preferred plans.

9 THE CHAIRPERSON: Okay. We'll just
10 meditate on this and many subjects.

11 Another question I had on this, you were
12 talking about risk tolerances, and I -- I heard you, you
13 were referring to MIPUG and all these other
14 organizations, but it's not that surprising that risk
15 tolerances would be different between individuals and --
16 and corporations, with presumably the corporations having
17 more knowledge than individuals? That wouldn't be a -- a
18 surprise to anyone that risk tolerances would be
19 different, would it?

20 MS. PATTI RAMAGE: I think risk
21 tolerances between any two (2) people are probably
22 different, but I think a sweeping generalization to say
23 that -- suggest that Manitoba Hydro as a Corporation is -
24 - is less risk adverse isn't -- isn't entirely fair when
25 all of its activities are to promote lower rates for our

1 domestic customers.

2 And -- and so the -- Manitoba Hydro just
3 simply isn't taking -- isn't -- isn't taking any
4 activities without that core principle in mind. And --
5 and the people making those decisions are also
6 ratepayers, too.

7 THE CHAIRPERSON: That is true. Thank
8 you.

9

10 CONTINUED BY MS. PATTI RAMAGE:

11 MS. PATTI RAMAGE: And if I could just
12 make one (1) other comment, going back to your previous
13 question. I -- I would just remind the Board again that
14 when we're looking at our preferred development plan, and
15 I'll be getting into this later, but there is no do-
16 nothing option. So whatever Manitoba Hydro chooses is --
17 you know, domestic consumption is increasing, and whether
18 we -- whether we go forward with export contracts or not,
19 the fact is there's going to be something in place, and
20 it's not going to be inexpensive to meet those -- to meet
21 that demand.

22 Your questions hit a -- a nice point,
23 because they're -- I am moving to a new topic and that's
24 water and energy management, which is slide 44.

25 During this rate application, there has

1 been much attention to Manitoba Hydro's water and energy
2 management activities, with a special emphasis on
3 drought, and in particular the '03/'04 drought. As
4 everyone has become aware, through the workshops and
5 hearings, these activities are extremely complex, but
6 vitally important to Manitoba Hydro. Water is the
7 primary fuel and one of the largest risks facing the
8 utility. In low-water years, the loss of exports and
9 increased purchase costs stress the finances of the
10 Corporation. Extended drought can potentially deplete
11 all of the Corporation's equity. In high-water years,
12 environmental and stakeholder issues constrain Manitoba
13 Hydro's relationship and its reputation.

14 Evidence submitted by Manitoba Hydro --
15 and here I'm referring to PUB Manitoba Hydro First Round
16 147A -- indicates that in operating the corporate -- the
17 Corporation's power system with safety as a continually
18 overriding objective, the following considerations are --
19 are pursued in -- in priority order, and they are: energy
20 supply, energy reserves, reliability of supply,
21 citizenship concerns, and then, lastly, economics.

22 In addition, at pages 149 -- or, I'm
23 sorry, at page 4,149 through 4,151, Manitoba Hydro
24 provided evidence on its operating criteria, including
25 risk tolerances established for operations during

1 drought, such as planning for loads that would occur in a
2 severe winter, and the necessity to preserve water
3 storages against the possibility of Black Swan events.

4 Mr. Rose's testimony on the importance of
5 Manitoba Hydro thinking about and being aware of the
6 unforeseeable, has been strongly reinforced during the
7 hearing by the disaster in Japan. And there I'm
8 referring to transcript page 25 -- 2,544 through 2,546,
9 where Mr. Rose was discussing the concept -- the concept of
10 leptokurtosis, which is a word I have always wanted to
11 get on the record.

12 In the context of the critical nature of
13 an adequate supply of electricity, Manitoba Hydro's
14 caution in dealing with drought risk can't be
15 overemphasized. No evidence was filed during the hearing
16 that challenged Manitoba Hydro's risk -- risk appetite
17 for drought. On the contrary, Mr. Rose, at page 3,116,
18 said:

19 "I think it's reassuring to know that
20 the system operation priorities are
21 what they are, and that they're written
22 out."

23 A premise of many interrogatories and per-
24 asks on the topic of water management was that Manitoba
25 Hydro could do a better job of operating its reservoirs,

1 especially prior to and during droughts. Most of these
2 questions were predicated on a hindsight review, or
3 hypothetical improvements to computer models, or
4 forecasting equations. However, no evidence was
5 presented that accurate forecasts of future pre -- future
6 precipitation amounts or future market prices were
7 available, or even possible, or that even if they were,
8 that they would make a material change to Manitoba
9 Hydro's decisions or significantly reduce the cost of
10 drought.

11 The evidence given was that the future
12 weather conditions beyond a few days are unknowable, and
13 in the conte -- and in that context, perfect operations
14 are impossible, and that costs may be incurred as a
15 result. And here I'm referring to comments made at
16 transcript page 4,144, 5,606 and 1,971.

17 An example we're all familiar with is a
18 homeowner's decision to buy fire insurance. With perfect
19 foreknowledge that a fire will not happen, a homeowner
20 would not need to buy insurance; however, that's not the
21 reality. And in hindsight, the homeowner doesn't
22 consider the cost of fire insurance an error in decision
23 making when his or her house doesn't burn to the ground.
24 It's not an error in their personal forecast, or their
25 personal view of the future. What the homeowner does say

1 is that having insurance is a prudent hedge against the
2 risk of fire, even though in hindsight it may not have
3 been needed.

4 And so it goes with power system
5 operations. Water and reservoir storage is managed given
6 -- given the conditions and the requirements at the time,
7 given Manitoba Hydro's objectives and risk appetite.
8 After-the-fact reviews based on -- based on assumptions
9 that the future water supplies are knowable are not
10 helpful.

With regard to the drought of '03/'04, it
should be noted, firstly, that the circumstances and
implications of this period were -- were reviewed at the
2004 GRA, and that the Risk Advisory report into this
drought was commissioned, in part, in response to Board
Order 101/'04. In that report, which is contained at Tab
13 of the risk binders filed in this proceeding, Risk
Advisory concluded, and I'm quoting:

19 "Overall, the Company did an
20 outstanding job in managing the
21 drought."

22 And that's at page 35 of that report.

23 THE CHAIRPERSON: Ms. Ramage --

24 MS. PATTI RAMAGE: M-hm.

25 THE CHAIRPERSON: -- on -- on that point,

1 I remember that -- the hearing in 2004, just one (1)
2 small point, and may -- maybe it was just our
3 understanding at the time, but in that hearing, if we can
4 go back that far, and this is a small point because
5 there's something else you mentioned that I really wanted
6 to -- to talk about, but on this point, it was our
7 understanding that Manitoba Hydro had chosen to meet its
8 commitments to its US counterparties to protect its --
9 its business reputation, and -- and that it didn't have
10 to do it, but it -- it did it to protect its business
11 reputation. And we can all understand that because it's
12 a long-term view, to keep client's happy.

13 But subsequently, did we not learn that
14 the con -- long-term contracts that existed at that time
15 actually required you to supply, and it's only been
16 subsequent with the new arrangements that you've pointed
17 out in the evidence, that you have the right in uncertain
18 circumstances not to deliver?

19 MS. PATTI RAMAGE: I'm just going to have
20 a brief conference with Mr. Cormie.

21 THE CHAIRPERSON: Please.

22 MS. PATTI RAMAGE: I have my views, but I
23 want to make sure that they're consistent with Mr.
24 Cormie's.

25

1 (BRIEF PAUSE)

2

3 MS. PATTI RAMAGE: I think the simple
4 answer to that question would be if Manitoba Hydro were
5 not to serve those contracts in '03/'04, we would have
6 been defaulting under those contracts, and that -- a
7 default would obviously create reputational risk. And I
8 think the confusion probably comes from the point in a
9 drought at which we would actually be in a force majeure
10 under the contracts. And I think that's what has been
11 described by Dr. Kubursi as one (1) of the -- the
12 benefits of the new ones, a better understanding of when
13 essentially you hit a force majeure.

14 THE CHAIRPERSON: Thank you. That --
15 that helps, because it had been something in the back of
16 one's mind for a bit of time.

17 If I could go back one (1) page earlier,
18 on page 44, and I know that it's come up many, many
19 times, but for some reason it's just a -- hit me directly
20 this time.

21 You say the objectives are pursued in
22 priority order. You mean that as you say it, right, that
23 public and employee safety, reliability, supply -- in
24 other words, there's a -- there's an order to it. You
25 don't -- you satisfy one (1), then you satisfy two (2),

1 then et cetera, et cetera?

2 MS. PATTI RAMAGE: Yeah, there -- that's
3 exactly -- it's a priority.

4 THE CHAIRPERSON: So, for example, when
5 it comes to the environment, we can all understand that,
6 your consideration of the environment, is it the type of
7 global assessment of environment, for example, that
8 RCM/TREE has talked about for years; in other words, the
9 reducing of global emissions? Or are we just talking
10 about Manitoba's environment, sort of somehow as if it
11 could be sort of circumscribed off the global?

12

13 (BRIEF PAUSE)

14

15 MS. PATTI RAMAGE: We have to confirm we
16 wouldn't be looking at the -- this in the global context.
17 What Mr. Cormie advises me is really what the
18 environmental considerations are balancing; for example,
19 impacts across watersheds, something we can probably
20 relate to right now. Manitoba Hydro has its
21 environmental licences and it can do what it can do
22 within each licence limit. That doesn't mean that that
23 is what it does. It looks at what -- doing in one (1) --
24 on one (1) watershed would impact the other.

25 We are -- because we can do something does

1 not mean we necessarily do it. The -- the Corporation
2 looks at the overall impacts. So there's intangibles
3 that go with that if -- because you're allowed to make a
4 release doesn't mean you're make a release, if it's going
5 to cause hardship to one (1) particular area.

6 THE CHAIRPERSON: It's complex like
7 everything else, I guess. But -- and I don't mean
8 anything negative by this at all, but, I mean, again, on
9 the environment, for example, you're -- you're not taking
10 a global context. For example, you wouldn't enter into a
11 contract that disadvantaged you economically but produced
12 its significant emission reductions in a different
13 jurisdiction?

14

15 (BRIEF PAUSE)

16

17 MS. PATTI RAMAGE: I think the short
18 answer is, no.

19 THE CHAIRPERSON: Now, with citizenship
20 obligations, that's a very interesting one, I think I can
21 understand it in a broad context. In the specific
22 context, it would presumably mean respecting the rights
23 of people within your jurisdiction, I suppose, and
24 attending to them in the ways that you can, in a proper
25 form --

1 MS. PATTI RAMAGE: I think --

2 THE CHAIRPERSON: -- fashion.

3 MS. PATTI RAMAGE: I think that's exactly
4 correct. It's how the power system is operated must be
5 tempered with the rights of others.

6 THE CHAIRPERSON: Would it include, for
7 example, the decision, for example, to enter into
8 partnership agreements with First Nations for -- in --
9 with new dams?

10 MS. PATTI RAMAGE: I don't think it would
11 that, just because this is the list of operating
12 priorities as opposed to -- I think that's -- that's at a
13 higher level of a policy decision.

14 THE CHAIRPERSON: Okay, that helps me
15 too. So you're saying what you're dealing with here is a
16 status quo operation, how you operate something that you
17 already have, in a sense?

18 MS. PATTI RAMAGE: Right, this is Mr.
19 Cormie sitting in his office deciding whether to -- to
20 hold water, release water, and -- and make those
21 decisions with what he has.

22 THE CHAIRPERSON: Because there was
23 considerable discussion during the Hearing on one (1) --
24 the point I was finally coming to, in economics. This
25 list of priorities suggest that Manitoba Hydro's goal,

1 other than, for example, reliability, supply, and safety,
2 which it's hard to imagine anyone disagreeing with that.

3 You're not necessarily aiming at the
4 lowest -- I think one (1) of the experts from one (1) of
5 the Intervenors raised this as a possibility, the lowest
6 rates for domestic customers that were achievable, it's
7 not your primary goal?

8 MS. PATTI RAMAGE: It certainly wouldn't
9 be in the face of -- of things like safety and
10 reliability. Those come first.

11 THE CHAIRPERSON: Okay. Thank you. I
12 think we'll take our lunchbreak now. It's been a very
13 interesting morning. We'll see you back in -- is 1:15
14 all right with you? Okay.

15

16 --- Upon recessing at 12:09 p.m.
17 --- Upon resuming at 1:17 p.m.

18

19 THE CHAIRPERSON: Ms. Ramage...? I had
20 to decide which one of the dynamic duo was concluded
21 before lunch.

22

23 CONTINUED BY MS. PATTI RAMAGE:

24 MS. PATTI RAMAGE: You get me for a
25 little while longer. When we said we switched off, we --

1 and perhaps we should have been more careful -- we gave
2 each other pretty big chunks.

3 Before going back to the argument, though,
4 I thought I would maybe respond to a question that the
5 Vice-Chair raised with Ms. Boyd, and you'll have to
6 forgive me in terms of the answer because I'm really
7 parroting the answer for you, but it's with respect to
8 the Bipole 3 technology. And what I'm advised is that
9 voltage source converter technology has rapidly advanced
10 since the late 1990s and is now considered a mature HVDC
11 technology. This technology is in operation in more than
12 a dozen locations around the world, one (1) of the larger
13 installations being in California.

14 There's also a -- it's called a Skagerrak
15 link of 700 megawatts being planned for Norway and
16 Denmark, and -- with an in-service date of 2014. And
17 this link is rated at 500 kV and has a comparable
18 converter component size to Bipole 3 design. And, as I
19 say, it's -- it's in dozens of locations around the
20 world, ranging -- ranging from Australia, Norway, Finland,
21 Germany. They're on the list provided.

22 MR. ROBERT MAYER: I thank you for that
23 and I realize that to try to ask any questions that would
24 arise out of that would probably take up a whole lot of
25 time, so thanks for the response.

1 THE CHAIRPERSON: Just if I may, one (1)
2 last sort of follow-up on that question of the
3 priorities. And again, I'm -- I'm -- there's been so
4 much evidence and so much gone on in this hearing that my
5 memory might be playing tricks, but if I recall, at one
6 (1) point in time KPMG was testifying on their report,
7 and the question was asked -- they were looking at the
8 draft, between the draft one and the final version, and
9 in the draft version, if I recall properly, there was a
10 paragraph which I think purported to represent KPMG's
11 representation of Manitoba Hydro's objectives and said
12 something about the primary objective being the lowest
13 cost to domestic customers, but it was removed in the
14 final edition.

15 I don't know if this speaks at all to this
16 issue or not, but maybe you could remind me as to -- does
17 that have any relevance to the question we're talking
18 about?

19 MS. PATTI RAMAGE: Well, we could go
20 back. I'd have to check the reference because it depends
21 in terms of what -- whether you're talking as one (1) of
22 the components of the corporate strategic plan or one (1)
23 of -- this is talking about the operations of the system.
24 So -- and I don't think KPMG would have been referring to
25 this at that time, but we'd have to double-check that.

1 But a comment Mr. Cormie made to me over
2 the lunch break that may be of interest on that topic is
3 -- is, when we're doing this, what -- what I'm advised is
4 that, if Manitoba Hydro's models were left to their own
5 devices without human intervention, they can quantify and
6 figure out the best economic solution to the nth degree
7 and to the nth decimal point, but that isn't how Manitoba
8 Hydro operates. Its system operators go to these
9 priorities.

10 And so, for example, while the model might
11 tell us to hold back water or release water, interests of
12 -- of other parties such as cottage owners on Lake
13 Winnipeg have to be taken into account. That's the human
14 side of the equation here and those -- in those
15 priorities the economics go down because we have a model
16 who can tell us that but -- and our model can have some
17 of those other pieces of the equation but you need a
18 human to really look at how those interactions work. And
19 I thought that was an interesting comment.

20 THE CHAIRPERSON: It is. It is also
21 good to know that humans are still involved. Okay.
22

23 CONTINUED BY MS. PATTI RAMAGE:

24 MS. PATTI RAMAGE: Okay. If I -- if I
25 can continue on where I left off this morning, I was

1 looking at Manitoba Hydro's response to PU -- or I'm
2 sorry, Dr. Kubursi and Magee's response in PUB KM-14,
3 where Dr. Kubursi made the statement:

4 "It is simply noticed that..."

5 And -- and here we were talking about -- I should go back
6 and say the '03/'04 drought was where I had left off, and
7 there Dr. Kubursi says:

8 "It is simply noticed that no action
9 was explicitly taken to hold a specific
10 person or office responsible for what
11 might be considered avoidable mistakes
12 during the drought."

13 In cross-examination Ms. Southall asked, Are you talking
14 about the '03/'04 drought there? To which Dr. Kubursi
15 responded, Yes, precisely.

16 This dis -- the discussion on this topic
17 then abruptly ended with no indication of what actions or
18 inactions Dr. Kubursi was referencing. Now, Dr. --
19 Manitoba Hydro notes that Drs. Kubursi and Mag -- Magee
20 did not examine Manitoba Hydro operations during the
21 drought. They did not speak to Manitoba Hydro employees
22 on the subject and this was confirmed when we canvassed
23 the Manitoba Hydro panel at page 6,854 on the June 9th --
24 Manitoba Hydro's June 9th evidence. And it was
25 subsequently confirmed by Dr. Kubursi in Undertaking

1 number 7 -- 173 when Dr. Kubursi indicated that they
2 relied solely on the written reports or discussions with
3 the NYC and the KPMG report. And there I'm referring to
4 page 17 of Undertaking 173.

5 Now, I think it's interesting if you
6 recall that KPMG didn't review the '03/'04 drought and,
7 in fact, Board counsel made a point in cross-examination
8 of questioning -- questioning KPMG why they didn't review
9 that drought. So this leads us to the inevitable
10 conclusion that the so-called avoidable mistakes of the
11 '03/'04 drought are really a product of the NYC's
12 allegations. And as Dr. Kubursi noted at page 5,890 of
13 the transcript:

14 "She was quite generous in making
15 pronouncements and generalizations.

16 Nowhere was she willing to explain at
17 length the methodology and the way she
18 reaches these conclusions or the
19 allegations."

20 Therefore, in Manitoba Hydro's respectful
21 opinion, this can't be the opinion of KM as they didn't
22 have in their possession sufficient information to reach
23 that conclusion, and appears they inadvertently relied
24 solely on the allegations of the NYC.

25 The only expert report filed in this

1 proceeding with regard to the '03/'04 drought is the
2 RiskAdvisory report. And the conclusion of that I quoted
3 this morning: "The Company did an outstanding job."

4 During the hearing, there was considerable
5 discussion over emergency planning, and I -- I've talked
6 about this a little bit earlier. And there was the
7 question of Manitoba Hydro requiring risk preparedness
8 plans on the shelf ready to respond to the unexpected.

9 In the KM report, and in response to interrogatories from
10 the PUB, KM suggests that Manitoba Hydro does not have
11 risk preparedness plans, especially one (1) for drought.

12 As indicated in the rebuttal evidence,
13 page 59 through 60, Manitoba Hydro agrees with the need
14 to have risk preparedness plans and even has a corporate
15 policy which requires emergency response plans for all
16 foreseeable emergencies, emergencies arising from natural
17 or man-made events that pose a real or a potential threat
18 to the health and safety of employees, contractors, the
19 general public, the assets of the Corporation, and
20 related environmental protection, the ability to
21 generate, transmit, and distribute electricity, transmit
22 and distribute natural gas, and provide related services,
23 and finally the ability of the Corporation to -- to
24 conduct business in the normal manner.

25 And I referenced earlier, but although KM

1 only became aware at a late date of this Manitoba Hydro
2 has many emergency response plans to ensure the
3 Corporation meets these requirements. And these are --
4 plans are built to address all hazards and risk to which
5 the Corporation may be exposed, for example, fire, flood,
6 gas or electricity supply interruption, dam failure,
7 hazardous materials, explosions and emissions disease,
8 and work -- work force disruption.

9 However, Dr. Kubursi's suggestion that
10 Manitoba Hydro does not have a plan for drought is
11 incorrect. It's also simplistic in that it implies that
12 drought is a specific event that triggers special action
13 and is a disruption to business as usual.

14 On the contrary, drought planning is a
15 complex ongoing organization-encompassing activity that
16 involves much more than the preparation of a plan that
17 might be pulled off the shelf, put into place sometime in
18 the future with a declaration of an emergency. I -- I
19 believe Mr. Cormie explained that at page 1,978 of the
20 transcript.

21 Drought operations are not an emergency at
22 Manitoba Hydro, rather they're incorporated into the
23 Corporation's everyday business. However, this doesn't
24 mean financial consequences of drought on its customers
25 are not serious and significant. To ensure that drought

1 does not become an emergency and that the Corporation is
2 able to conduct its business in a normal fashion,
3 Manitoba Hydro plans its generation and transmission
4 facilities, negotiates its export contracts, plans its
5 finances, and operates its reservoirs with the worst
6 historical drought in mind.

7 Each year, Manitoba Hydro updates these
8 plans and all plans are developed consistent with the
9 Corporation's generation, transmission, and financial
10 planning criteria and the targets. In planning its
11 future, Manitoba Hydro assumes that severe drought can
12 occur at any time. As a consequence, drought
13 preparedness planning is embedded in the day-to-day
14 operation of the system. In his testimony on this
15 subject, Mr. Cormie indicated that the Corporation
16 updates its operating plan weekly as part of Manitoba
17 Hydro's decision-making process for reservoir releases
18 and guards against the onset of drought whenever a worst-
19 case scenario requires more -- a more conservative
20 release plan. And there -- you'll find that at
21 transcript page 8,090.

22 Consistent with Dr. Kubursi's suggestion,
23 Manitoba Hydro already has a process that includes
24 drought action triggers. In this context, the use of an
25 emergency manual is not appropriate or germane. The

1 occurrence of drought is only recognizable after the
2 fact. Although its onset is not foreseeable, it is also
3 not a single event such as other emergencies like a dam
4 failure or tornados. Drought develops gradually over
5 time and is detected through constant monitoring of
6 conditions across all we -- watersheds in western Canada.

7 Weekly updates to water supply forecasts
8 and worst-case scenario planning ensure that appropriate
9 action is taken early. Although Manitoba Hydro's export
10 power risk management committee meets a minimum of once
11 quarterly to review the Corporation's export-related
12 risks, including water conditions, the EPRMC increases
13 the frequency of its reviews and approves risk
14 tolerances, risk mitigation strategies, and significant
15 operational decisions when warranted.

16 No evidence was heard during the hearing
17 to indicate there would be an improvement to Manitoba
18 Hydro's drought response or that the Corporation's
19 drought response wasn't already instituted in the working
20 mechanisms of the Corporation or that the cost of drought
21 would be reduced by the preparation of a drought
22 preparedness plan document.

23 In order to meet the challenge of
24 operating the power system Manitoba Hydro uses complex
25 decision support systems such as HERMES and MOST, which

1 assist decision makers. These models were one (1) focus
2 of the KPMG and KM reviews. No evidence was filed that
3 dis -- that demonstrated any material deficiencies in
4 these models.

5 On the contrary, KM report -- wrote in
6 their report at page 78:

7 "By any standard, HERMES is an
8 impressive system."

9 To the extent that suggestions for improvements were
10 made, these focussed on improved documentation, having
11 external audits, and potential research into alternative
12 esoteric solution techniques. Manitoba Hydro accepts
13 these suggestions as directional and worthwhile of
14 consideration, and notes that in many areas, for example,
15 hydrological modelling, this work has been ongoing at
16 Manitoba Hydro for many years.

17 During the hearing, there's also been a
18 suggestion from Doctors Kubursi and Magee that through
19 the use of storage the cost of drought can be avoided or
20 reduced. As Mr. Cormie testified, the cost of drought is
21 triggered by the extended lack of precipitation which can
22 reduce water supply and lead to a reduction in hydraulic
23 generation by up to 50 percent. And that's at transcript
24 page 8,116. In that instance, storage does not create
25 replacement energy. It can only affect the timing of

1 hydraulic generation.

2 To the extent that additional storage can
3 be used to help mitigate the cost of drought, the
4 evidence given by Mr. Cormie at page 8,080, and supported
5 by Mr. Bowman at page 7,337 was that overall there would
6 be an increase in cost through the additional spillage,
7 environmental and other impacts from higher waddle --
8 water levels on other stakeholders and that the be --
9 benefits in any drought year would be minor in comparison
10 to the impact of low inflows.

11 Turning to slide 48, to make sure we're
12 all on the same page. In the evidence of Dr. Kubursi and
13 Magee it is suggested that Manitoba Hydro should alter
14 its objective in the models to one of one of minimizing
15 costs rather than maximizing revenues.

16 Manitoba Hydro has considered these
17 statements and concludes that it concurs with the
18 evidence of Judah Rose at page 2,661, that this may be a
19 distinction without a difference. Manitoba Hydro submits
20 that having the objective function of maximizing net
21 revenue in its models will result in the least cost to
22 ratepayers. Manitoba Hydro formulates the optimization
23 problem such that it is not possible to trade off
24 domestic firm load in order to make export sales. In
25 addition, the maximization of net revenue is limited by

1 the constraints of the system, including, for example,
2 transmission limits. Manitoba Hydro disagrees with the
3 KM position that changing the objective function to
4 minimize cost rather than maximizing net revenue will
5 provide for greater efficiency and a more economic
6 result.

7 Manitoba Hydro remains of the view that
8 the practices of optimizing net export revenues and water
9 management and market activities benefits Manitoba
10 Hydro's ratepayers and allows Manitoba Hydro to take
11 advantage of export op -- opportunities for the benefits
12 of it -- of its ratepayers. And we've expressed that at
13 page 59 of our rebuttal. If Manitoba Hydro were to adopt
14 the practice suggested by Doctors Kubursi and Magee this
15 would tend to reduce the quantity of export sales and
16 would result in lower net revenues and higher domestic
17 rates, exactly the opposite of the intended result.

18 Turning to page 4 -- slide 49, in your
19 closing mark -- remarks, Mr. Chairman, you raised a
20 series of questions on the wisdom of testing alternative
21 development approaches. During this Hearing Manitoba
22 Hydro has provided financial results for a preferred
23 development plan which consists of a new firm export --
24 which consists of new firm export sales that are
25 facilitated by advancing the construction of Keeyask and

1 Conawapa together with increased interconnection
2 capability to the US export market.

3 Manitoba Hydro has also provided the
4 financial results for an alternative development plan
5 which consists of the construction of Conawapa for the
6 first unit in service by 2022/2023, followed by a
7 combined-cycle combustion turbine in 2033/2034, for a
8 scenario without the new export sales and without
9 additional export -- or without additional
10 interconnection capability.

11 This alternative development plan is less
12 capital intensive and does not include the construction
13 of Keeyask or other generation in advance of domestic
14 requirements. While it's not necessary nor feasible to
15 expect a decision can be made today by this Board as to
16 which of these development approaches is appropriate, the
17 twenty (20) year financial outlook, and here it goes from
18 2010/'11 through to 2029/'30, which was filed as Exhibit
19 Manitoba Hydro 72, demonstrates that the preferred
20 development plan is beneficial to ratepayers in the long-
21 term by providing either greater retained earnings or
22 reduced customer rates.

23 In response to the second part of your
24 question, should not all possible development scenarios
25 be tested, and in regard to the adequacy of the prices

1 negotiated in the term sheets, there are other scenarios
2 of system expansion with and without firm sale agreements
3 that are possible. And these will be tested in the
4 public needs for and alternatives to review, which will
5 take place prior to Manitoba Hydro being authorized to
6 proceed with its plans.

7 Manitoba Hydro recognizes that the
8 protection of long lead supply options such as hydro will
9 result in significant expenditures prior to regulatory
10 approval and construction commitment. Manitoba Hydro
11 submits that it is necessary to undertake expenditures
12 well in advance of the date of commitment in order to
13 protect the option to develop hydro in Manitoba. This
14 position, I believe, was supported by Mr. Bowman of
15 MIPUG.

16 As well, part of the process of protecting
17 the hydro option is the testing of alternative scenarios
18 of system expansion. Manitoba Hydro is in the process of
19 preparing for the NFAAT review which will carefully
20 consider substantial quantities of information which is
21 not yet available to be reviewed in a public forum and
22 which is not presently before the PUB. It is only in the
23 context of such a review that we can gain confidence that
24 export revenues will meet new costs so as to allow for
25 advancement of construction without the need for further

1 domestic rate increases than otherwise would be required.
2 And that's -- that was the -- and I think that was the
3 question posed by the Chair in his closing remarks.

4 In addition, the NFAAT review will consi -
5 - consider a broad range of considerations in addition to
6 project economics and rate impacts in assessing the
7 attractiveness in the development plans. One (1) such
8 consideration is that a development plan that advances
9 hydro generation has advantages since it provides more
10 flexibility in medium requirements that may result from a
11 potential increase in load growth. Manitoba Hydro notes
12 the issue of increased flexibility of the -- of the
13 preferred development plan and the potential for taking
14 advantage of -- of lost opportunities is discussed by
15 MIPUG at page 16-4 of their written submission to the
16 final argument.

17 Manitoba Hydro has provided substantial
18 information to the PUB in this hearing process, including
19 provision of the preferred and alternate development
20 plans, such that the -- the PUB should be able to make an
21 informed decision on the requested rate increases for the
22 2010/'11 and 2011/'12 test years.

23 And if I could move to the slide at 51,
24 Mr. Chairman, you also posed a question regarding
25 Manitoba Hydro's dependable energy resources and, in

1 particular, whether thermal, wind, and firm imports
2 should be included in the calculation of dependable
3 energy resources.

4 As you know, Manitoba Hydro's power
5 resource plan considers all dependable wind energy,
6 thermal energy, and firm imports as dependable resources
7 in planning and operating the system. Rebuttal evidence
8 at page 62 indicates that it may require the use of
9 higher cost thermal and import energy for only about 10
10 percent of the flow conditions. However, relying on this
11 as dependable energy provides benefits by effectively
12 firming low-cost hydro-electric energy that would
13 otherwise be considered as surplus opportunity energy,
14 which would be available under 90 percent of flow
15 conditions.

16 In responding to a question from Mr.
17 Hacault on the effect of removing win ener -- wind energy
18 and thermal generation from dependable energy, Mr.
19 Surminski responded "it would reduce the quantity of firm
20 sales," and that's at transcript page 5,651. Later, Mr.
21 Cormie added:

22 "We would need new generation now, so
23 we'd have to advance Keeyask to today."
24 And that's at transcript 5,660. In responding to a
25 question of wind generation being considered as

1 dependable energy, Mr. Surminski stated, quote:

2 "That there is a quantity of energy
3 over the entire year that Manitoba
4 Hydro can count on and Manitoba Hydro
5 has reservoir flexibility to absorb the
6 wind energy whenever it is available."

7 End quote. That's at transcript page 5,640. The
8 dependable portion of win ener -- wind energy is assumed
9 to be 85 percent of the expected annual availability to
10 reflect that it is possible to experience an entire year
11 that results in low wind production. And that is -- was
12 referenced at transcript page 1,191.

13 Doctors Kubursi and Magee argue that wind
14 generation should not be considered as dependable energy,
15 because it is not dispatchable. Mr. Judah Rose of ICF
16 pro -- provided a significant discussion on this issue
17 and concluded that, quote:

18 "Manitoba Hydro is using the right
19 approach, given its highly hydro-based
20 system."

21 That can be found at Exhibit Manitoba Hydro 113, page 14.

22 Doctors Kubursi and Magee further argue
23 that thermal energy should not be considered as
24 dependable because it is generally uneconomic since high-
25 cost gas-fired generation may be out of the money.

1 Manitoba Hydro believes that it's
2 appropriate to consider out of the money thermal
3 generation and firm import energy as dependable resources
4 even if they are costly because on average, in the long
5 term, they are not utilized frequently and provide
6 overall benefits that far outweigh their cost.

7 It appears that Doctors Kubursi and Magee
8 do not recognize that high-cost and out of the money
9 resources are beneficial in the long run, since they can
10 be used to firm up additional hydro-electric energy.
11 They seem to be more concerned with the economic concept
12 of supply that would require that we be a little more
13 sensitive to what it would cost to put this amount on the
14 market. And that's quoting them from transcript page
15 6,064.

16 Mr. Rose of ICF concluded that Manitoba
17 Hydro is using the right approach in utilizing thermal
18 energy as dependable and stated that, quote:

19 "Kubursi and Magee are confusing
20 reliability -- reliability planning and
21 economic analysis."

22 And that was found in Exhibit Manitoba Hydro 55 at page
23 89.

24 Mr. Bowman also supports the Manitoba
25 Hydro position by stating that, quote:

1 "Our -- our view would be that Hydro
2 appropriately deals with wind and
3 thermal resources in calculating its
4 dependable energy."

5 And that's found at transcript page 7,356.

6 Manitoba Hydro does not accept the KM
7 argument and maintains its position that it is
8 appropriate to include thermal, wind, and firm imports as
9 dependable resources based on the benefits derived from
10 having those assets available to firm up surplus hydro-
11 electric power that otherwise would have to be sold on
12 the opportunity market.

13 Next, I'm going to deal with the financial
14 impact of extended drought, which is page -- which is
15 slide 53. Manitoba Hydro's position is that the
16 financial impact of a five (5) year drought is an
17 appropriate stress test for assessing financial risk
18 faced by the Corporation.

19 ICF Consulting supported this ris -- risk
20 analysis, and concluded in Exhibit Manitoba Hydro-55 at
21 page 61, that, quote:

22 "The scenario examined by Manitoba
23 Hydro is reasonably stressful. It is
24 almost equivalent to adopting a 95
25 percent confidence in -- interval for a

1 given year -- a given future year."
2 I'm sorry. End quote. In reference to whether multiple
3 risk factors should be considered simultaneously for a
4 stress test, ICF concludes on the same page that:

5 "Manitoba Hydro does not need to
6 simultaneously examine multiple risk
7 events since Manitoba Hydro reached the
8 desired confidence level through the
9 use of a single risk, which is a five
10 (5) year drought under expected export
11 market conditions."

12 In IFF-10, Manitoba Hydro estimated the
13 financial impact of a five (5) year drought beginning in
14 2012/2013 be in the order of \$2.1 billion, including
15 additional finance costs due to reduced revenues.

16 Manitoba Hydro utilizes the SPLASH model to determine the
17 financial impact of drought by comparing the consequences
18 of an extended five (5) year drought period to the
19 average of all flow conditions that are utilized in the
20 IFF. Since the SPLASH model considers all of the major
21 factors that influence drought operations it is the
22 appropriate tool for analyzing the financial impact of a
23 five (5) year drought.

24 Manitoba Hydro is of the view that its
25 estimate of the financial impact of drought is not

1 seriously understated due to spla -- due to the SPLASH
2 model using perfect foresight of future water flows. The
3 issue was raised by KPMG in its report, and expanded on
4 by KM, and commented on by Mr. Jonathan Wallach who
5 suggested that it may be a significant issue in Manitoba
6 Hydro's risk assessment.

7 In its rebuttal on page 62 to 64, Manitoba
8 Hydro refutes the assertion that using perfect foresight
9 is a significant issue. In Manitoba Hydro's example in
10 the rebuttal, perfect foresight as to when a drought will
11 end could underestimate the cost of an extended drought
12 by \$90 million. This is a relatively small number
13 compared to the overall cost of \$2.1 billion for a five
14 (5) year drought. Furthermore, this underestimate is
15 likely to be offset in actual operations because SPLASH
16 makes the conservative assumption that non-firm imports
17 can't be relied on during -- in its drought analysis.
18 The likely availability of non-firm import energy in
19 actual operations at lower costs than Manitoba Hydro's
20 gas-fired generation that is assumed in SPLASH can easily
21 offset the \$90 million underestimate that resulted from
22 using the perfect foresight in SPLASH.

23 In their report at chapter 6, KM developed
24 a Monte Carlo simulation model that was used to quantify
25 Manitoba Hydro's financial risk arising from a number of

1 factors. On June 23rd, Manitoba Hydro received KM's
2 responses to several undertakings in which KM provided a
3 revised analysis of the calculations included in chapter
4 6 of the KM report. The revised information results in
5 the quantification of the financial impact of drought
6 that is much less severe in magnitude compared to the
7 original estimate.

8 Manitoba Hydro has reviewed these results
9 and concludes that the revised analysis remains
10 fundamentally flawed and should -- and should be
11 disregarded in spite of some attempt to correct errors
12 that were identified and to improve calibrations of
13 probability distributions. Mr. Cormie is on the record
14 of being supportive of the type of analysis conducted by
15 KM and it's very similar to the type of capability that
16 Manitoba Hydro's designing in PRISM.

17 It appears Mr. Williams has forgotten
18 about PRISM in his comments on the need for Manitoba
19 Hydro to develop this type of model. We have included in
20 the book of documents at Tab 15 a detailed discussion of
21 the concerns with respect to chapter 6 and with the
22 analysis drawn from that chapter. In the interests of
23 efficiency, and given the amount of time already
24 spent on this topic by other parties, we don't propose to
25 review it in detail but have it available as

1 Attachment 1 to our argument for the Board's review.

2 Manitoba Hydro concludes that there is no
3 credible evidence to demonstrate that its estimate of the
4 financial consequences of an extended drought is
5 inappropriate. In fact, KPMG confirmed Manitoba Hydro's
6 process for measuring drought is appropriate and
7 consistent with practices of other utilities. That's
8 found at page 96 of their report. ICF, at page 109,
9 concluded that Manitoba Hydro's quantification approach
10 is reasonable and went on to encourage the use of PRISM
11 once in a drought to further refine the estimates of --
12 of risk.

13 Next I'll deal with Manitoba Hydro's
14 estimate of frequency and severity of droughts. A
15 drought is defined as a series of years of below average
16 water flows. An examination of the Manitoba Hydro inflow
17 record indicates there is a persistence in water flows
18 from one year to the next and cycles of below average
19 inflows can last several years. Manitoba Hydro assesses
20 the severity of a drought by determin -- determining the
21 deviation between net flow related revenue and the
22 average net flow related to revenue over different time
23 periods.

24 For example, Manitoba Hydro utilizes a
25 benchmark five (5) year drought that corresponds to the

1 re -- recorded flows from 1987 to 1991. The severity of
2 this five (5) year drought, beginning in 2012/2013, in
3 terms of financial impact amounts to a reduction of \$2.1
4 billion in net income compared to that expected in IFF-
5 10, including additional financing costs.

6 Manitoba Hydro has used an approximate
7 approach to assess the frequency of the five (5) year
8 benchmark drought and it concluded it is a one (1) in
9 fifty (50) year event since there have been two (2)
10 droughts of this severity and duration or worse in the
11 approximately one hundred (100) years of record. Mr.
12 Rose used a similar approach and he concluded there were
13 two (2) droughts resulting in the probability of, quote,
14 "2 percent of having the drought that the Company uses or
15 worse." And that's at transcript page 2,565.

16 KM undertook a much more statistical
17 analysis for drought frequency by using two (2) different
18 approaches. Through the use of an auto-regressive time
19 series model, KM concluded that the -- that five (5) year
20 drought of severity corresponding to the 1987 to 1991
21 recorded flow can be expected to have a frequency of one
22 (1) in seventy-two (72). And that's found in Exhibit KM
23 number 4 at page 59. This conclusion is generally
24 consistent with the Manitoba Hydro estimate of frequency
25 of one (1) in fifty (50). And if it's correct, it just

1 simply indicates Manitoba Hydro is somewhat conservative
2 in choosing its benchmark drought.

3 The statistical approach that KM used is
4 based on results from extreme value theory, and this
5 approach is used to determine whether the historic
6 minimum that Manitoba Hydro has experienced is a good
7 representation of an extreme that is typical for -- in a
8 period of ninety-four (94) years. In the KM Report at
9 page 153 they state that, based on their analysis, quote:

10 "It appears that the actual five (5)
11 year minimum is not too out of line
12 with what it would be on average from
13 other potential ninety-four (94) year
14 water flow outcomes."

15 End quote. They go on to conclude on page 162:

16 "This assures us that the use of the
17 actual minimum as kind of a benchmark
18 worst possible case scenario is not
19 unduly optimistic or pessimistic."

20 End quote. This KM analysis confirms that Manitoba
21 Hydro's use of the actual minimum from the period of
22 record is reasonable. CAC's suggestion that KM's
23 statistical approach is superior is simply difficult to
24 understand in light of this evidence.

25 Based on the foregoing arguments, there is

1 no evidence that Manitoba Hydro's assessment of drought
2 frequency or that the use of the minimum, is
3 inappropriate.

4 Mr. Chairman, you posed questions
5 regarding drought risk related to the development plan
6 with the new hydro generation and transmission in place
7 and whether Manitoba Hydro will be more vulnerable to the
8 effects of major drought in these -- in that -- at that
9 time.

10 Manitoba Hydro believes this should not be
11 a significant factor in deterring future development of
12 hydro-electric generation. Being a predominantly hydro-
13 electric system exposes Manitoba Hydro to the qu --
14 consequences of low water flows and extended drought
15 periods. Cycles of low and high water flows are an
16 inherent characteristic of hydro-electric development.
17 Consequently, further development of hydraulic resources
18 will result in a larger deviation of revenues from
19 average during the low flow periods.

20 It is Manitoba Hydro's view that the
21 magnitude of the financial consequence should not by
22 itself be a factor that should detract from the economic
23 attractiveness of hydro-electric development. What is
24 important is that the Corporation has sufficient
25 financial strength to withstand an extended period of

1 adverse water conditions with the expectation that there
2 will be periods of high water conditions that will
3 replenish retained earnings.

4 KPMG undertook an analysis of the ability
5 of Manitoba Hydro to withstand the consequences of
6 droughts of five (5), ten (10), and fifteen (15) years in
7 duration. They also tested different time periods for
8 the start of these droughts because new hydro-electric
9 development is most vulnerable to a cycle of low flows
10 immediately after completion since there's been no time
11 to accumulate benefits from the development. KPMG found
12 that the preferred development plan was more robust in
13 terms of ability to withstand the effects of extended
14 droughts. And that can be found at the KPMG report at
15 page 183.

16 I'm up to slide 55 by my count. While the
17 adequacy of historic stream flow was the subject of
18 discussion by the risk experts, none of the Intervenors
19 nor the Board council commented on this during their
20 closing submissions. So, again, in the interests of time
21 Manitoba Hydro has included its closing remarks on this
22 topic as Attachment 2, found at Tab 16 of the book of
23 documents. We conclude that the historic flow record
24 since 1912 is adequate and provides a rich sample of
25 possible flow conditions appropriately adjusted for

1 current regulation.

2 Similarly, while there was some discussion
3 regarding the use of different production coefficients in
4 HERMES and SPLASH, neither KPMG nor KM found this to be
5 an issue of any significant merit, nor did Intervenors
6 elect to comment. We have summarized Manitoba Hydro's
7 views in Attachment 3 to our argument at Tab 17 in the
8 book of documents.

9 There has been plenty of discussion on the
10 topic of the adequacy of the models, and here I'm now up
11 to slide 57. Judah Rose found no deficiencies with
12 operational impacts of Manitoba Hydro models. And there
13 I'm referring to Manitoba Hydro Exhibit 55. KPMG's
14 review of Manitoba Hydro's forecasting models concluded
15 that, and I'm quoting here:

16 "We are satisfied that Manitoba Hydro
17 has taken appropriate care and due
18 diligence in developing, operating, and
19 maintaining the models. This relates
20 to the approximations in the HERMES
21 models, the use of adjustment factors,
22 and the ongoing calibration and updates
23 to both SPLASH and HERMES."

24 That's found at KPMG at roman numeral XI. They also
25 said:

1 "We are satisfied that Manitoba Hydro
2 has taken appropriate care and due
3 diligence in developing and maintaining
4 these models and in using them in its
5 operations planning process."

6 That's found at Roman Numeral Number XXXI of the KPMG
7 report.

8 Kubursi and Magee found with reference to
9 MOST, and I'm quoting here:

10 "VISTA is an -- undoubtedly a powerful
11 tool and throughly-tested system."

12 And that's at page 63 of the KM report. Regarding HERMES
13 and SPLASH, KM stated on page 180 of their report:

14 "On the whole, we felt strongly that
15 HERMES is a valid model. It serves
16 Manitoba Hydro well."

17 They said:

18 "SPLASH is an equally relevant and
19 useful system."

20 In addition, on page 95 of the report, in a reference to
21 the SPLASH model, KM stated, quote:

22 "We are happy with the simulation
23 structure of the system and the
24 insights that this can add to the
25 Utility."

1 There have been a number of
2 recommendations for improvement or suggestions related to
3 modelling, some of which Manitoba Hydro is already
4 pursuing or will consider for future work along with its
5 other priorities. However, overall, none of the experts
6 who reviewed and commented on Manitoba Hydro's
7 operational and planning models have noted any material
8 deficiencies.

9 As Dr. Ma -- Magee commented at page 5,952
10 of the transcript, quote:

11 "Regarding the models, we feel the
12 models are serving their purposes and
13 can be relied upon for operational
14 planning and long-term planning."

15 Dr. Kubursi, at page 5,969 of the transcript also noted,
16 quote:

17 "We felt that the systems at Manitoba
18 Hydro are well done. They're run by
19 excellent people, knowledgeable people
20 with lots of expertise, commitment,
21 dedication, and knowledge. But we
22 wanted this to be more codified. We
23 wanted it to be more documented. We
24 want it to be vetted."

25 These are it -- items in Manitoba Hydro's

1 respectful submission, that will take the system from a
2 Chrysler to a Cadillac. They are improvements which can
3 be made as time and resources permit to systems that are
4 currently performing their intended functions and
5 performing them well. These are not items which are
6 required to ensure reliability of Manitoba Hydro's
7 forecasting, operations and planning decisions -- I'm
8 sorry, I'm going to start that one over. These are not
9 items which are required to ensure reliability of
10 Manitoba Hydro's forecasting or operations and planning
11 decisions.

12 The Board can, having heard the evidence
13 of the experts on these models, be satisfied that the
14 models are functioning well, are adequate for Manitoba
15 Hydro's needs, and serve the ratepayers well.

16 Manitoba Hydro acknowledges that KM felt
17 strongly about the use of probabilistic models when
18 considering the future and its many uncertainties.
19 Manitoba Hy -- Hydro has and continues to focus on the
20 issue of decision making under uncertainty, for example,
21 in its development of the PRISM screening tool and in
22 development of stochastic enhancements to its HERMES
23 model.

24 There has also been plenty of discussion
25 on the merits of placing most HERMES, SPLASH, PRISM, and

1 other models on a common platform. In response to
2 questions by the Chairman, if Manitoba Hydro accepted
3 your recommendation regarding moving to a common platform
4 would it provide more support for the preferred
5 development plan, Dr. Kubursi clarified:

6 "This is not an issue that is related
7 to accuracy of the models."

8 And that's at transcript page 6,262.

9 Manitoba Hydro acknowledges there is
10 overlap between the various models but it is at these
11 points of overlap that the results of the models can be
12 compared and the differences can be explained as check of
13 model accuracy. Manitoba Hydro also agrees there are
14 merits to use of common data and relationship between
15 various models, where appropriate. This is consistent
16 with Manitoba Hydro practice. Like KM, Manitoba Hydro
17 recognizes the importance and value of having a modelling
18 community. However, Manitoba Hydro does not believe it
19 necessary to have a common platform for this community of
20 experts to exist. In fact, Manitoba Hydro seems to have
21 a very good modelling community without having a common
22 flat -- common platform. KM commented, and I'm quoting
23 here from transcript page 6,291:

24 "We got a level of comfort. There are
25 all these people who know each other.

1 I mean, we sat back on the sides and
2 saw what kind of a relationship and how
3 well it is working."

4 Manitoba Hydro disagrees with KM's
5 statement that it is a top priority to integrate the
6 models on a common platform. Similar to other entities
7 in the industry, Manitoba Hydro believes there are good
8 reasons for having models on different platforms if they
9 are to serve different purposes, one (1) main reason
10 being to align the models with the requi -- with the
11 requirements.

12 Manitoba Hydro concurs with the views
13 expessed -- expressed by Judah Rose at transcript page
14 2,580 that there is greater benefit in exploiting the
15 increased level of computing capacity to elaborate on the
16 analysis for the various modelling purposes rather than
17 computing -- com -- than -- rather than consuming
18 computing resources to link all its models together on a
19 common platform. Please recall that Mr. Rose's company
20 is in the business of energy modelling. They're not
21 selling the models but they're selling the models'
22 results. It's -- it's absolutely important that Mr.
23 Rose's models are top notch and -- and we would submit he
24 is the one to look to on -- on these sort of issues.
25 He's clearly the witness with the most experience in

1 these matters.

2 There's also arguments to maintain some
3 independence between models to diversify and reduce risk.
4 Manitoba Hydro is therefore giving higher priority to
5 develop and enhance its models for their various purposes
6 over efforts to place the models on a common platform.

7 It's noteworthy that immediately after Dr.
8 Kubursi clarified that a common platform is not an issue
9 related to accuracy of the models he went on to suggest
10 that it -- that it is non-linear, dynamic, and stochastic
11 modelling that would have a bearing on model accuracy.
12 And that's at page 6,263. No Intervenor has attempted to
13 delve into these highly technical issues. Manitoba
14 Hydro's comments are therefore set out in Attachment 4 at
15 Tab 18 of the -- of the book of documents.

16 It is of note that, when asked what degree
17 of improvement could be expected from the introduction of
18 non-linear, dynamic, and stochastic modelling, Dr.
19 Kubursi's answer was marginal. Manitoba Hydro is not
20 convinced that even marginal improvement would result,
21 given that models are advisory tools, and decisions on
22 development plans depend on many factors and assumptions
23 that are based on human judgment and are beyond the scope
24 of the models.

25 Consequently, more refined model outputs

1 are only a small part of the decision-making process and
2 it is not clear that such a refinement will necessarily
3 result in even a marginal change in the approach for
4 selecting an optimal development plan. In addition, it's
5 not clear whether refined models would provide more
6 support for a particular development plan in response to
7 the specific question posed by the Chairman.

8 Now I've moved up to slide 66.

9

10 (BRIEF PAUSE)

11

12 MS. PATTI RAMAGE: As I just noted,
13 Manitoba Hydro's planning and operation models are used
14 to inform decisions not dictate actions. Their use
15 assists decision makers in quantifying the many economic
16 tradeoffs while adhering to the thousands of constraints
17 governing the operation of the system, which are well
18 beyond human capability to follow.

19 KPMG explained in their report:

20 "Management judgment is applied either
21 in the use of the model outputs or in
22 the development of input assumptions.
23 This is appropriate given that the
24 models are a decision support tool
25 rather than a direct means of operating

the business."

2 And that's found at KPMG report, page 49. Mr. Will
3 Lipson of KPMG explained in his testimony regarding model
4 outputs:

5 "And that's why this is not
6 specifically a science that models can
7 drive the Company. It needs humans and
8 it needs management to make good
9 judgment calls and appropriate
10 judgments and have experience with how
11 to optimize the operations of the
12 Company."

13 And that's found at transcript page 3,691.

14 Manitoba Hydro's do not directly dispatch
15 generation, nor do Manitoba Hydro's power traders fully
16 commit to the level of export or import activity
17 recommended by the models. KM confirmed this fact in
18 their findings when they said:

19 "HERMES is not directly linked to the
20 trading floor and its forecasts are not
21 used as bids on the floor. Models are
22 useful tools for informing users'
23 decisions, not replacing them."

24 And that's found at the KM Report at page 187.

25 Professional judgment is used to evaluate model results

1 and consider other factors that influence planning and
2 operating decisions, namely licence, legal, and
3 citizenship obligations to all stakeholders affected by
4 Manitoba Hydro's operations, all of which are given
5 priority over any economic advantage. As noted earlier,
6 Manitoba Hydro, we've outlined these operational
7 priorities in response to PUB MH-147-A.

8 And at slide 67, dealing with SPLASH,
9 Manitoba Hydro's position is that the SPLASH model
10 produces appropriate results in terms of revenues and
11 costs that are affected by water flow conditions. It
12 considers the variability of water flows by using the
13 chronological record of historic flows and it simulates
14 system operations, assuming that each of the flow
15 sequences can occur in the future. The SPLASH model has
16 been calibrated to represent actual system operation by
17 considering all relevant factors that influence net
18 export revenues, such as domestic loads, hydro-electric
19 generation supply, export volumes, and prices in on-peak
20 and off-peak periods, as well as requirements for thermal
21 generation and imports, and assessments of water rental
22 costs.

23 A peer review was undertaken in 2005 and
24 that can be found at Appendix 74 of the fal -- of the
25 filing. It concluded that the model provides an

1 excellent representation of actual system operation and
2 was appropriate for water regime studies related to the
3 impacts of adding Wuskwatim to -- to the Manitoba Hydro
4 system. From information in the peer review reports
5 related to SPLASH model calibration, Mr. Bowman concluded
6 that the model has, quote:

7 "Very reliable output, and it cor --
8 corresponds very well with what happens
9 in reality on the system."

10 And that's at transcript page 7,330. There has been no
11 record on the evi -- no evidence on the record during
12 this hearing that the SPLASH model produces inappropriate
13 results.

14 ICF, KPMG, and KM state that in the suite
15 of Manitoba Hydro models, including SPLASH -- or I'm --
16 SPLASH is an -- is appropriate for its application. KPMG
17 relied on the SPLASH model outputs for their assessment
18 of the financial impacts of extreme drought on varying
19 levels of firm export contracts associated with the
20 preferred del -- development plan as well as the
21 alternative development plan. That appears to be a
22 strong endorsement of the model.

23 Mr. Chairman, you also asked that the
24 parties comment on whether issues of credibility and
25 independence arise in respect of this proceeding. In

1 this hearing, we've heard from three (3) primary
2 witnesses regarding the risks Manitoba Hydro faces as it
3 -- as a result of its participation in the export market
4 and the potential impact of drought: ICF; KPMG; and the
5 PUB's independent consultants, KM.

6 We've reviewed their evidence extensively
7 in final argument. Each of these witnesses were provided
8 unfettered access to Manitoba Hydro's staff, processes,
9 data, and contracts, and that's confirmed at transcript
10 page 3,797 as well as 3,262. You will recall Dr. Bur --
11 Kubursi indicated on a number of occasions, they were
12 very impressed by the openness of Manitoba Hydro. One of
13 those occasions is at transcript page 6,152.

14 During KPMG's appearance the Board
15 expressed concern with the change in scope of KPMG's
16 assignment as between their November 20th engagement
17 letter and their December 15th engagement letter, in
18 particular, the removal of the reference to the outline
19 of an in-depth risk study of all risks facing the
20 Corporation as directed in PUB Order 32/09.

21 Mr. Lipson explained the changes were made
22 following receipt of correspondence threatening legal
23 action by the NYC. KPMG's own risk management
24 professionals, along with their New York consul -- along
25 with their New York legal counsel, made the changes. The

1 -- that's found at transcript page 3,241. Mr. Warden
2 confirmed this at tra -- at page 3,868 of the transcript.
3 An injunction in New York would have been extremely
4 disruptive to moving this process forward.

5 It should be noted that the PUB
6 essentially assigned KM the same in-depth risk study task
7 as set out in Order 32/09. The purposes of KM's retainer
8 is set out in page 52 of Order 32/10 and include review
9 and evaluate all relevant available reports and
10 supporting data, systems, models, and analysis which
11 address risk management or contain information affecting
12 risk management for Manitoba Hydro. Dr. Magee commented
13 on the breadth of the assignment, saying:

14 "The terms of the refere -- the terms
15 of reference are very broad, but we
16 also interpreted them as being flexible
17 so that we didn't feel obligated to,
18 say, give the last word on everything
19 that you could possibly imagine --
20 imagine following -- imagine -- you
21 could possibly imagine falling under
22 the terms of reference, which would be
23 impossible."

24 And that's found at transcript page 5,877.

25 Interestingly, whether the consultant

1 refined the terms of reference due to threat of
2 litigation or as a necessary step in the assignment, the
3 main focusses of their reports were the same, drought,
4 Manitoba Hydro's models, and the middle office. This
5 strongly supports the view that there is -- there exists
6 no issues of independence or credibility arising from the
7 changes to KPMG's terms of reference. The PUB got the
8 product they requested from both KM and KPMG.

9 That the risk witnesses separately
10 determined how they would tackle a similar assignment,
11 were each provided open access to the data required to do
12 so, and came to, in almost every instance, the same
13 conclusion speaks volumes to the independence and
14 credibility of their work. Add to that the 2005 work of
15 three (3) independent reviewers found at Appendix 74,
16 which, as Mr. Bowman pointed out, is consistent with the
17 conclusions of the risk consultants in this hearing, and
18 you have a strong and credible case that Manitoba Hydro's
19 models work well for the purposes for which they're
20 designed.

21 Ultimately, there is no need to make
22 findings of credibility nor are there issues of
23 credibility. As Dr. Kubursi opined, it is reasonable --
24 it is a reasonable position for people to have different
25 views. And in those instances where the risk consultants

1 came to different conclusions with each other or with
2 Manitoba Hydro, the Board must weigh the evidence.

3 In terms of how to weigh those differing
4 views, and I'd ask you here, we're at slide 69, Manitoba
5 Hydro suggests the Board take the following
6 considerations into account. First, did the consultant
7 access Manitoba Hydro's models and accurate data so as to
8 formulate their own opinions or to assess the
9 reasonableness of Manitoba Hydro's conclusions under
10 review? And, second, does the consultant have industry
11 experience to understand how their conclusions or
12 recommendations will play out in the real world.

13 And with that I'm going to hand the baton
14 back to Ms. Boyd and give my voice a break for a bit.

15 MS. MARLA BOYD: I'm going to pick up on
16 the topic of demand-side management, which you'll find
17 beginning at slide number 71. DSM has been and continues
18 to be a significant component of Manitoba Hydro's
19 strategy in fulfilling the Corporation's mandate and
20 responsibilities. For over twenty (20) years DSM has
21 played a key role in Manitoba Hydro's provision of
22 exceptional customer value, reliable supply of energy,
23 encouraging energy efficiency, and promoting
24 environmental sustainability.

25 I intend to touch on three (3) points

1 related to DSM. The first is the appropriate -- the use
2 of the appropriate analysis in comparing Manitoba Hydro's
3 DSM efforts to others, second, Manitoba Hydro's DSM
4 targets and, third, the use of the rate impact measure or
5 RIM.

6 On the first point, Manitoba Hydro
7 welcomes any comparison of its DSM efforts with efforts
8 of any other region provided that those comparisons are
9 conducted using appropriate and meaningful analysis.
10 Manitoba Hydro notes the following examples of such
11 appropriate and meaningful analysis involving our DSM
12 efforts.

13 First, the Dunskey Review, which was filed
14 as Appendix 25. After undertaking an extensive review of
15 Manitoba Hydro's DSM efforts, the Dunskey report notes on
16 pages 6 and page 24 that, and I quote:

17 "Manitoba Hydro has long been
18 considered among Canada's leaders in
19 energy efficiency incentive programs
20 thanks in large part to both a strong
21 corporate commitment and a stable long-
22 term planning perspective."

23 The second such effort is the Canadian
24 Energy Efficiency Alliance or CEEA. This leading non-
25 government energy efficiency advocate awarded Manitoba an

1 A-plus -- Manitoba Hydro an A-plus, the highest rating
2 awarded in any province or territory in the most recent -
3 - recent national report card on energy efficiency. This
4 was the fourth consecutive report card covering eight (8)
5 years that Manitoba either led or tied for first place in
6 the national rating.

7 Third, the comparison to Xcel's DSM
8 offerings, which were filed in this proceeding as
9 Manitoba Hydro Exhibit 142. This is a detailed analysis
10 which was undertaken, comparing Manitoba Hydro's program
11 with Xcel Energy's programming. Notwithstanding that the
12 analysis identified differences between the two (2)
13 utility offerings, overall Manitoba Hydro's DSM efforts
14 are very comparable to the efforts of Xcel Energy, who
15 are identified by both Mr. Chernick and Mr. Dunsby as a
16 leader in energy efficiency.

17 During this hearing and in past regulatory
18 hearings Manitoba Hydro has been criticized for its DSM
19 efforts. This criticism was based in part on simple
20 analysis using inappropriate and misleading metrics such
21 as those which were employed by Mr. Chernick. Comparing
22 savings and spending rates between utilities in different
23 regions with varying loads and regional differences can
24 and does lead to misleading and ambiguous results.

25 The Dunsby report recognizes the potential

1 for misleading and ambiguous results based on these types
2 of comparisons on page 27 at Appendix 25 of the filing.
3 Specifically, Mr. Dunsby undertakes a similar analysis
4 but includes some other metric comparisons such as
5 electric percent of revenues. The electric percent of
6 revenue metrics suggest the opposite of what the saving
7 and spending rate metrics suggest in terms of Manitoba
8 Hydro's leadership position. Mr. Dunsby, who is highly
9 regarded by this Board and by Intervenors, cautions in
10 his report that the reader ought not to draw conclusions
11 based solely on savings and spending rate metrics.

12 Manitoba Hydro agrees with Mr. Dunsby on
13 this issue. As outlined in Manitoba Hydro's rebuttal
14 evidence on page 46, any region having a higher
15 concentration of industrial load and/or space and heating
16 load will generally have lower saving and spending rates
17 irrespective of the fact that both regions may be
18 achieving the same level of energy efficiencies within
19 all or virtually all of the available economic
20 opportunities. In Manitoba this impact is emphasized by
21 the unique electric use in Manitoba for significant end
22 uses.

23 Those unique Manitoba circumstances
24 include the fact that electricity is used for hot water
25 heating. In Manitoba water heating represents the second

1 largest use of electricity. And in a residential
2 application it can represent upwards of 30 percent of
3 electric consumption in a natural gas -- naturally gas
4 heated home. Put another way, it adds 50 percent to the
5 denominator of a saving rate or a spending rate metric
6 calculation. Manitoba Hydro notes that there are
7 virtually zero energy efficiency savings associated with
8 this end use application and there's no other region
9 within the US or Southern Canada where electricity is
10 used for this application to the extent that it's used in
11 Manitoba. This will effect the outcome of savings and
12 spending metrics.

13 The other unique Manitoba factor is the
14 use of electricity for space heating. Electric use for
15 space heating can represent upwards of 50 percent of
16 total electric use in an electrically heated home. And
17 notwithstanding that there are opportunities to capture
18 energy efficient opportunities with insulation measures,
19 the savings are limited to those homes still requiring
20 upgrade and, importantly, by the percentage savings or
21 savings rate that can be achieved of other opportunities,
22 for example, fridges and lights. They are significantly
23 reduced relative to the large amounts of electricity that
24 are consumed for space heating.

25 I just want to walk through a simple

1 example that I hope will make that a bit clearer because
2 I -- I confess I -- I puzzled it through a couple times
3 myself. So assume that you save 100 kilowatt hours
4 annually by selecting an energy star refrigerator. That
5 100 kilowatt saving in a home with no electric, space, or
6 water heat, using about 10,100 kilowatt hours annually,
7 represents a 1 percent saving. That same 100 kilowatt
8 saving in a home that has electric hot water heat and
9 uses 14,000 kilowatt hours annually is only a .7 percent
10 saving. And in a home with both electric space heat and
11 water heat using 25,800 kilowatt hours annually that
12 represents .4 percent savings.

13 So that same 100 kilowatt hour saving
14 appears very different when you compare the type of home
15 that's -- that the percentage of use is -- is compared
16 over. And, in addition to that, there are interactive
17 effects within the electrically heated homes that are
18 still to be considered, which further discounts the
19 percentage of load savings.

20 Manitoba Hydro acknowledges that varying
21 energy-efficient opportunities exist within different
22 regions due to space and water heating applications, and
23 from having different mixes of customers; for example,
24 having more industrial customers. This emphasize's Mr.
25 Dunsby and Manitoba Hydro's observation that caution must

1 be exercised in comparing metrics among regions with
2 different load profiles.

3 While we're on the topic of comparisons, I
4 want to address the comments made by Mr. Williams in his
5 final argument, found at page 8,509 and 10 of the
6 transcript. He said that DSM savings that Manitoba Hydro
7 attributes to some of the more successful residential
8 programs, such as CFLs, are considerably more optimistic
9 than adopted by other well-respected bodies such as the
10 Ontario Power Authority. This is contrary to the
11 evidence that was filed by Manitoba Hydro in response to
12 CAC/MSOS Manitoba Hydro 179C-1, which I've included a
13 portion of at Tab 19 of the book of documents.

14 You'll see on page 2 of that IR response
15 the -- the statistics that Mr. Williams was referring to.
16 However, this demonstrates that Manitoba Hydro actually
17 claims a lower total savings over the life of a CFL,
18 relative to the Ontario Power Authority. Manitoba Hydro
19 claims savings of only 247 kilowatt hours, while OPA
20 claims 354 kilowatt hours, or fif -- 43 percent more than
21 Manitoba Hydro's claim. As such, Manitoba Hydro is
22 actually understating its energy savings in comparison to
23 OPA, rather than overstating those savings, as suggested
24 by Mr. Williams.

25 The second issue related to DSM that we'd

1 like to address involves Manitoba Hydro's DSM targets.
2 Contrary to Mr. Chernick's initial observations, which he
3 corrected on the record at transcript page 7,175 and
4 7,176, Manitoba Hydro agrees with the importance of
5 establishing aggressive energy conservation targets.
6 There are two (2) points related to this matter that
7 Manitoba Hydro would like to discuss.

8 First, if a comparison is to be made
9 between regions, a comparison must involve accurate and
10 meaningful analysis of targets among the regions. As
11 we've just discussed, using metrics based on a region's
12 total load is misleading. Similar to using a saving rate
13 or spending rate, Mr. Chernick's comparison uses ina --
14 an inappropriate metric involving planned energy savings
15 as a percentage of total load.

16 To undertake a meaningful comparison of
17 targets between regions, Manitoba Hydro is of the view
18 that a detailed analysis would be required, which would
19 include assessing a number of factors, including
20 identifying all remaining economic energy-efficient
21 opportunities within each region by technology or
22 measure, estimating the market-attainable opportunity
23 available for each technology and measure, and comparing
24 how successive or aggressive each re -- region is in
25 terms of developing a plan to capture the available

1 opportunities within the region. Such analysis would
2 remove distorting factors, including differences in
3 available opportunities within the region and misleading
4 metrics based on varying load characteristics.

5 Notwithstanding that such an appropriate
6 comparison has not been undertaken on targets within
7 various regions, Manitoba Hydro recognizes that its
8 longer-term targets are generally less aggressive than
9 regions where the targets are arbitrarily set as a
10 percentage of load, which brings me to the second point
11 to consider: Is Manitoba Hydro's method of establishing
12 the targets appropriate?

13 Manitoba Hydro establishes aggressive
14 targets based on realizable and identifiable energy-
15 efficient potential, what Mr. Kuczek described as a
16 bottom-up approach. This approach is supported by
17 detailed market potential studies of energy-efficient
18 opportunities and detailed research on individual
19 opportunities. Manitoba Hydro's approach appears to be
20 interpreted by some critics to mean that the company is
21 not committed to establishing aggressive targets in the
22 future. We disagree. Manitoba Hydro's approach is a
23 well-established, industry-accepted approach, and has
24 been used for many years, and is founded and supported by
25 logic and rational business planning.

1 Manitoba Hydro recognizes that a number of
2 regions have recently been driven to use arbitrary
3 targets based on percentage of load. These targets are
4 generally established by third parties without any
5 supporting analysis. Manitoba Hydro recognizes that
6 these percentages may be achievable in the short term
7 within some region; however, as the energy-efficient
8 opportunities are captured over time, long-term
9 achievement of those targets is questionable.

10 Manitoba Hydro has consulted with two (2)
11 utilities who have had such arbitrary targets imposed.
12 In inquiring as to how those utilities expect to achieve
13 the targets post the 2015 timeframe, both responded with
14 similar answers: They didn't know.

15 The targets established are important, and
16 they must be rational and achievable, because Manitoba
17 Hydro incorporates those expectations in its integrated
18 resource planning process. The Corporation makes
19 significant long lead-time decisions on the capital
20 investments based on the integrated resource planning
21 process, using a forecast of energy demand adjusted for
22 expected energy savings, realized through the DSM
23 investments. The use of the arbitrary target for DSM
24 would impact the integrity of our long-term integrated
25 resource planning process, and the timing of significant

1 investment decisions by Manitoba Hydro could be made
2 inappropriately.

3 Manitoba Hydro is committed to
4 establishing aggressive, but not arbitrarily set targets.
5 In an effort to establish identifiable and meaningful
6 targets, the Corporation has recently undertaken a number
7 of activities, including hiring Mr. Dunsby in a
8 brainstorming exercise to identify potential
9 opportunities for additional opportunities. It's
10 important to recognize that this was a brainstorming
11 exercise, and therefore a number of recommendations
12 suggested pursuing or further investigating
13 opportunities. These recommendations were made without
14 detailed supporting analysis on the economics of the
15 opportunities.

16 Manitoba -- Manitoba Hydro also undertakes
17 con -- continued participation in the Canadian DSM
18 alliance, which focusses on sharing experiences on
19 capturing additional energy efficient opportunities, both
20 today and in the future, with discussions held around the
21 issue of diminishing opportunities in the distant future.

22 We also compare energy efficient
23 opportunities being pursued by other leading edge
24 utilities in North America. For example, Manitoba Hydro
25 provided a comparison of the programs it offers with

1 those of other utilities in the chart at page 49 of our
2 rebuttal evidence.

3 Manitoba Hydro is currently in the process
4 of undertaking an updated DSM market potential study.
5 The result of this exercise will provide support for a
6 revised Power Smart plan with identifiable eco -- and
7 economic energy efficient opportunities, and has retained
8 a US consultant for this purpose.

9 Turning to slide 7 -- 73, I would like to
10 address the use of the rate impact measure, or RIM. This
11 is the final point to be addressed in this area, and it's
12 to respond to the suggestion by RCM/TREE that the RIM
13 test be eliminated.

14 Manitoba Hydro recognizes that some
15 confusion arose out of its use of the RIM test when the
16 Dunsky Review was undertaken. The issue was discussed
17 with Mr. Dunsky, and Manitoba Hydro has made an attempt
18 to clarify the position -- the Corporation's position
19 regarding the use of the RIM test. Unfortunately, our
20 messaging and communication on that point has been
21 unsuccessful with some participants.

22 Manitoba Hydro does not use the RIM test
23 solely to determine a program's viability, or for
24 screening energy efficient opportunities. Manitoba Hydro
25 uses a number of cost effective tests to assess energy

1 efficiency opportunities. Each of these test provides
2 useful information, and all tests are collectively used
3 in making decisions on whether to pursue a specific
4 energy efficient opportunity, how aggressively to pursue
5 that opportunity, and on the most effective DSM program
6 design to adopt.

7 The marginal resource cost and the total
8 resource cost tests are used primarily as screening tools
9 for assessing what opportunities to pursue, regardless of
10 who pays. The levelized utility costs, the RIM, and the
11 customer payback are used in aggregate for determining
12 the appropriate investment level between the utility and
13 the participating customer.

14 I confess I was something surprised by Mr.
15 Williams' suggestion that Manitoba Hydro's DSM program
16 has not demonstrated a commitment to maximizing benefits
17 for customers, such that in his clients' view the interim
18 relief granted for the 2011/'12 fiscal year ought to be
19 reduced. He did so having skipped over the positive
20 recommendation findings on page 75 of his written
21 argument, that Manitoba Hydro staff in the DSM area and
22 the broader Corporation, have a strong commitment to
23 developing and maintaining industry best -- best
24 practices, that Manitoba Hydro has a relatively strong
25 historical reputation, along with BC, Ontario, and

1 Quebec, in offering relatively strong programming in the
2 Canadian context, and that a literature review, such as
3 his own witness, Dr. Carter, would identify some
4 favourable commentary about Manitoba Hydro and energy
5 efficiency.

6 Mr. Williams instead focussed on the
7 suggestion that our programs, such as CFLs, are more
8 optimistic than other jurisdictions, which I've already
9 noted is not supported by the evidence, that
10 participation rates are lower, and based on Mr.
11 Chernick's suggestion that DSM program spending is -- is
12 spending less and aiming lower, which, as we have noted,
13 is a function of setting realistic and achievable
14 targets, and recognizing that as more and more
15 opportunities are realized, the number of unrealized
16 opportunity will diminish. Simply put, there are only so
17 many light bulbs that can be replaced.

Given the ongoing efforts of the Corporation, it is re -- its recognized position as a leader in the area of DSM and the steps taken to explore new opportunities, Manitoba Hydro submits that CAC/MSOS's suggestion is without merit.

23

24 (BRIEF PAUSE)

25

1 MS. MARLA BOYD: Mr. Chairman, we -- I'm
2 moving into a new area, and I wonder if we might take
3 just a short break. I need to consult with my colleague.

4 THE CHAIRPERSON: Very good.

5

6 --- Upon recessing at 2:26 p.m.

7 --- Upon resuming at 2:44 p.m.

8

9 THE CHAIRPERSON: Okay. Welcome back. I
10 think it's Ms. Boyd now.

11 MS. MARLA BOYD: It is. Thank you. I
12 wanted to turn to the topic of low-income affordability.
13 And I've been encouraged by some of my colleagues to be
14 brief, so I will do my best, but I do -- I think there's
15 important issues here that we need to canvass, so.

16 MR. ROBERT MAYER: Can -- can we make it
17 a little more helpful on something like this. We know
18 about the Dalhousie case. We know about the -- the
19 Advocacy Centre case. We know Hydro's position with
20 respect to -- to its mandate. And RCM/TREE has
21 apparently conceded that they don't want Hydro to run the
22 program anyway, and the recommendation, as I understand
23 it, is they want the Board to take this on -- design it
24 and -- okay, design it.

25 In any event -- so that seems to be where

1 the issue's at, at this point. Do we have in our -- in
2 our rate setting mandate and the -- I tend towards
3 RCM/TREE's definition of our mandate in rate setting.
4 And I think we also have the ability to set out class --
5 rate classes.

What is Hydro's position if the Board were to decide that it wanted to do that and were to set up a rate class as defined as a low-income or energy poverty based upon some percentage, or on LICO itself?

10

11 (BRIEF PAUSE)

12

13 CONTINUED BY MS. MARLA BOYD:

14 MS. MARLA BOYD: Let me approach that
15 this way. We have provided for you the statutes -- the
16 statutory provisions that we think are relevant at Tab
17 20. That includes the Manitoba Hydro mandate, which
18 you've indicated to me you're familiar with.

19 You will note in the review of that that
20 it -- it pro -- it provides the ability for -- or the
21 requirement for Manitoba to promote economy and
22 efficiency in the development and the generation
23 transmission distribution and in supply of power. It
24 does not, however, extend to issues associated with
25 affordability. We see that as -- as a distinction.

1 And we've also included Sections 39(1) and
2 39-2(1) in that Tab 20. And I won't read them for you,
3 you're familiar with them, but I think it's important to
4 look at those together. And it says, essentially, that:

5 "The rates charged for power supply to
6 a class of customers shall be the same
7 throughout the province. And read with
8 the other sections, Manitoba Hydro has
9 a clear obligation to recover its costs
10 to supply the power, and in doing so,
11 it must charge equalised rates to each
12 class of customer."

13 I need to respond to Mr. Gange's
14 suggestion that Section 43(3) can be addressed by
15 removing from this class of customers, or the -- the
16 potential beneficiaries of such a program, those
17 customers who are already on social assistance. And he
18 suggested that that meant then there was no longer a
19 concern that the funds of the Corporation would be used
20 for the purposes of government.

21 However, in our respectful view,
22 essentially what RCM/TREE is suggesting is that the PUB
23 create another layer of social assistance, offering
24 benefits to those who don't otherwise qualify for social
25 welfare funding. They've been described in this Hearing

1 as the working poor. That doesn't avoid the prohibition
2 in Section 43, which says that:

3 "You shall not use funds for the
4 purposes of government."

5 And we view social welfare, social
6 services, as being part of the purposes of government.
7 The fact that those people don't qualify doesn't mean
8 that those -- those funds wouldn't otherwise be used for
9 the purposes of government. Creating a new layer of
10 social service is indeed using those -- those funds for
11 the purposes of government.

12 You've also suggested that you prefer Mr.
13 Gange's view of the legislative mandate of this Board.
14 And I would suggest to you that there's a distinction
15 between the legislative mandate of the Board and the
16 discretion in which you have in terms of the powers that
17 you exercise. Although the Nova Scotia Court of Appeal
18 case is based on different legislation, the mandate of
19 that Board is remarkably similar to the mandate of this
20 Board. And I would suggest to you that the legislative
21 mandate, particularly in Manitoba, is very narrow.

22 It's restrict -- restricted by Section
23 26(1) of the Crown Corporation Public Review and
24 Accountability Act, and that is to review and approve
25 rates. The broad discretion which you have is in section

1 26(4), and that provides for the factors that you can
2 consider in approving those rates. I summed it up as
3 being a broad discretion in fulfilling a narrow mandate,
4 but not a broad mandate.

5 Mr. Gange referred yesterday to Section
6 26(4), Roman Numeral VIII, which says that:

7 "The Board may consider any compelling
8 policy considerations the Board
9 considers relevant to the matter."

10 I would note that thi -- this gives the
11 Public Utilities Board the jurisdiction to consider
12 policy in determining the rates. It does not provide the
13 jurisdiction to set policy using electric rates. And in
14 Manitoba, based on the existing legislation, the
15 Legislature has reserved to itself the right to set
16 social policy, which is not expressly granted to the
17 power of the Public Utilities Board.

18 In terms of your suggestion that you
19 create a new rate class of low income customers, however
20 that would be defined, I would submit to you that it is
21 within the provisions of Manitoba Hydro's legislation for
22 it to establish the classes, and to bring the rates for
23 classes of service to the Public Utilities Board for
24 their review and approval. To suggest that classes can
25 be set on a car -- on a criteria which have nothing to do

1 with the characteristics of the usage of power is beyond
2 the mandate of Manitoba Hydro and we submit it's beyond
3 the mandate of this Board as well.

4 Ms. Ramage notes that the Board -- the
5 Board -- the Manitoba Hydro Board, in Section 28, has the
6 ability by regulation to prescribe the terms and
7 conditions upon and subject to which the Corporation will
8 supply power to the users of power supplied to it. That
9 would suggest that the Manitoba Hydro Board of Directors
10 would have within its domain the ability to establish the
11 -- the classes of customers that it would serve, and the
12 terms and conditions upon which they would be served.

13 MR. ROBERT MAYER: That sounds like a bit
14 of a stretch, but okay. I have your argument on that.

15 MS. MARLA BOYD: I guess I'm puzzled by
16 that comment. The -- the statute is quite clear that
17 they have been given by regulation that power, so it --
18 it is a legislative piece.

19 MR. ROBERT MAYER: The terms and
20 conditions I understand.

21

22 (BRIEF PAUSE)

23

24 CONTINUED BY MS. MARLA BOYD:

25 MS. MARLA BOYD: I think the -- the --

1 the appropriate items to be considered are classes of
2 customers that are identified on their energy usage or
3 consumption characteristics, and that anything beyond
4 that is -- you've -- you've fallen back into the realm of
5 social policy, which is properly reserved to the
6 Legislature of the province.

7 I wanted to address RCM/TREE's suggestion
8 in its written submission, although it wasn't raised
9 yesterday, that Manitoba Hydro may have at one time
10 believed that a low-income assistance program was
11 reasonable, or to use their words, "at least not
12 illegal."

13 In support of that RCM/TREE cited at the
14 bottom of their written submission Manitoba Hydro's
15 request for review and variance in which we requested
16 that PUB defer the date for the submission of a report on
17 all low-income bill assistance program. And I want to be
18 very clear, Manitoba Hydro has never taken the position
19 that a program such as being proposed by RCM/TREE, and
20 particularly it's the rate affordability section there,
21 is reasonable, is within the mandate of Hydro to operate,
22 or is within the mandate of the PUB to direct. And you
23 will find, if you review the record of Manitoba Hydro's
24 rebuttal evidence in the 2008 electric GRA, or in
25 Centra's final argument in the 2007/'08 gas GRA, that

1 that position has been taken consistently by Manitoba
2 Hydro and Centra Gas.

3 In requesting a delay for filing a report
4 on bill assistance, Manitoba Hydro was in no way
5 acknowledging the legality of such a program, and was in
6 no way prejudging the content of such a report, or
7 whether the report would propose a program at all.

8 I think aside from the question of whether
9 or not the PUB has the jurisdiction to direct such a
10 program, there's the question of whether the PUB ought to
11 direct such a program. And that was the -- that's where
12 the Ontario Division -- the Ontario Energy Board cited
13 their confusion and that was recognized by the Ontario
14 Court that that was an issue that they could consider.

15 RCM/TREE has suggested that rate
16 affordability program is only in degree different from
17 all customer classes receiving the benefits of export
18 revenues to subsidize rates. And Manitoba Hydro cannot
19 agree with that characterization. An important
20 distinction is that export revenues are applied to all
21 customer classes within Manitoba Hydro's distribution
22 system, and all domestic customers receive a share of the
23 be -- export revenue.

24 In the case of the affordability rate
25 program, which is proposed by Mr. Colton and endorsed by

1 RCM/TREE, the PUB is essentially being asked to play
2 Robin Hood, to take from other customers, albeit not all
3 the rich, and to give to the poor. This was admitted by
4 Mr. Colton in cross-examination, that the so-called rich
5 that will be asked to pay for this program include
6 seniors, nursing homes, schools, single mothers, and
7 other ratepayers, some of whom will only narrowly miss
8 qualifying for the program themselves. You'll find that
9 at transcript pages 5,040 -- sorry, 7,052 and 7,053.

10 Although Mr. Colton offered a discussion
11 of cost effectiveness, it's clear from his definition
12 that this program is not cost effective as we understand
13 the word to mean in this forum. He stated at page 6,906
14 of the transcript that a business case is not seeking to
15 quantify all of the costs of the low-income affordability
16 program, and to quantify all of the benefits or cost
17 reductions accruing, and endeavouring to show that the
18 cost reductions generated by the program exceeded the
19 costs of the program.

20 Both in his direct evidence on page 6,907
21 and in response to cross-examination at page 7,041, Mr.
22 Colton admitted that there is no argument that a low-
23 income program will be cost-free on net; that is to say,
24 there will be net costs associated with the program. Mr.
25 Colton agreed with the finding of the 2007 APPRISE paper

1 included in his evidence that, and I quote:

2 "We've not found any evidence to either
3 support or refute the hypothesis that
4 programs can be cost neutral; however,
5 based on their design, certain programs
6 are unlikely to be cost neutral."

7 This is self-evident from the fact that
8 this program requires that rates be increased. Mr.
9 Colton has recommended a fixed-meters charge to be
10 recovered from all classes. In fact, as we've
11 demonstrated during cross-examination and the subsequent
12 refiling of PUB/RCM/TREE-7, which was filed as
13 Undertaking Number 164A, the costs of the proposed
14 program may in fact be higher than Mr. Colton originally
15 calculated, and we appreciate the candour of both
16 RCM/TREE and Dr. Colton in that regard. Based on an
17 affordability standard of 6 percent, the costs of the
18 program could approach \$50 million every year.

19 It's very important that that evidence is
20 clear in the Board's mind. The response to that
21 undertaking is not a calculation of savings; it's a
22 calculation of costs. This is the amount that would need
23 to be recovered from all ratepayers in the form of a rate
24 increase, and based on a rough calculation of \$10 million
25 being equivalent to 1 percent, that could mean an

1 increase in the order of 5 percent across the Board, over
2 and above the rate increases sought in this application.

3 MR. ROBERT MAYER: Well, you don't have
4 to go much further on the issue of whether or not it's --
5 it's a revenue neutral or a -- Mr. Colton -- and I think
6 everybody recognized that his calculations were
7 incorrect, and I -- I think we all know the impact of
8 that.

9

10 CONTINUED BY MS. MARLA BOYD:

11 MS. MARLA BOYD: Thank you for that. I
12 think it -- it should be noted as well that the
13 administrative costs, I think, are now generally accepted
14 to be somewhat higher in the program than were originally
15 described by Mr. Colton -- by Dr. Colton. That's in
16 large part because the target audience has been somewhat
17 revised. Removing those who are means tested from the
18 program removes the simplest and most efficient way for a
19 utility to verify its customers.

20 The customers that are referred to as the
21 working poor and identified by Dr. Carter to be more
22 transient in terms of moving in and out of poverty, we
23 agree that -- with the Vice-Chair's comments that that's
24 a good thing; however, it does increase the
25 administrative costs and the challenge of recertifying

1 those customers.

2 We would submit that, even if you find
3 that you have the jurisdiction, the rate affordability
4 proposal is not in the interests of consumers, as the
5 costs associated with the program will be significant and
6 will have a negative impact on the rates of the majority
7 of Manitoba Hydro's ratepayers.

8 Manitoba Hydro believes that the best way
9 to assist lower-income customers is to continue providing
10 energy efficiency, bill management, and crisis
11 intervention programming. The lower-income energy-
12 efficiency program provides sustainable, long-term
13 solutions to customers by improving energy efficiency of
14 the home, resulting in ongoing reduced compensation --
15 sorry, consumption and lower energy bills. The current
16 bill management program offers support to customers who
17 are having difficulty paying their bills by offering
18 options to spread the payments out to a more manageable
19 time period.

20 CAC/MSOS suggested in closing argument
21 that it found merit with the arrears management portion
22 of Dr. Colton's proposal, and we note that Manitoba Hydro
23 already offers this assistance to customers, albeit not
24 to the same drastic levels that are suggested by Dr.
25 Colton.

1 As the Board is also aware, Neighbours
2 Helping Neighbours assist customers who are experiencing
3 hardship and who are at risk of disconnection by
4 providing funding towards their bill, and more
5 importantly, those customers are put in touch with the
6 Salvation Army who will work with them to access other
7 programs which might improve their situation.

8 Manitoba Hydro agrees with Mr. Ganges'
9 comment on Tuesday that we are not here to solve the
10 problem of poverty. We have pondered why RCM/TREE has
11 suggested that the rate affordability program, as it
12 appears to work against what we understand to be their
13 primary objective, to promote conservation through the
14 use of appropriate price signals to customers.

15 More to the point, however, one can't look
16 at an energy afford -- affordability program without
17 looking at poverty as a whole. Energy affordability is
18 part of a much larger, more complex social platform, and
19 government and other related non-government entities must
20 be involved to ensure there's no redundancy between a
21 utility energy affordability program, and other soc --
22 social welfare or assistance programs. Leveraging
23 existing programs and the knowledge of stakeholders who
24 are working with lower income customers is crucial. Mr.
25 Carter brought that expertise and a broad view to the

1 Hearing, and his experience in studying poverty for over
2 forty (40) years should not be dismissed out of hand.

3 Mr. Chairman, in your closing remarks on
4 June 9th, you posed a question which we have listed as
5 Tab -- as number 31 in our Tab 1, as to what the gross
6 and net cost of the program would be. I believe we've
7 covered the issue of the gross cost with respect to the
8 filing of that exhibit. And in terms of calculating the
9 benefits associated with the programs, we concur with Mr.
10 Colton in his response to PUB/RCM/TREE-13A through C,
11 that it would be too difficult, and in his words, "not a
12 useful exercise to attempt."

13 Manitoba Hydro concurs with this
14 assessment, as it relates to customer costs and with
15 respect to utility benefit, would anticipate only a very
16 marginal reduction in collection costs would be possible,
17 which would be overshadowed by the administration costs
18 of the program.

19 And, Mr. Chair, you also posed the
20 question listed as number 32 in our book of documents, as
21 to whether non-utility costs and benefits should be
22 included in any cost benefit analysis of a low income
23 rate affordability program offered by the Utility.
24 Manitoba Hydro is of the view that non-utility costs and
25 benefits, if they exist and can be accurately measured,

1 could be included in a cost benefit analysis; however,
2 such a societal benefit cost metric should be used
3 appropriately.

4 Similar to analysing DSM programs, a
5 societal benefit cost test is appropriate for assessing
6 the holistic benefits relative to costs associated with
7 an opportunity. However, the metric is inappropriate in
8 determining a specific entities' level of investment in
9 pursuing the opportunity. The appropriate metric for
10 determining an entity, for example the government, the
11 Utility, the ratepayer, or a participating customer,
12 investments should only include the benefit and cost
13 relevant to that entity.

14 With respect to the final question posed
15 by the Chair in this area, you asked whether low income
16 programs should be run by agencies outside the utility.
17 Manitoba Hydro's response to that question will depend on
18 the type of program under consideration.

19 Manitoba Hydro has been quite clear that
20 it does not have the mandate or the information necessary
21 to run a rate affordability program. However, with
22 respect to low efficiency programs -- low income energy
23 efficiency programs, Manitoba Hydro is well equipped,
24 both with infrastructure and expertise, to run the
25 program, and concurs with the comments of Dr. Colton and

1 Mr. Carter that such programs need to be integrated with
2 programs with the same or similar populations. To that
3 end, Manitoba Hydro has been working with community
4 groups, government agencies, not for profit
5 organizations, including CAC, the Manitoba chapter, and
6 RCM/TREE, both of which have members on Manitoba Hydro's
7 advisory group.

8 It is worth noting Dr. Carter's evidence
9 on pages 800 -- 8,007 and 8,008 of the transcripts, that
10 the province of Manitoba, and specifically Manitoba
11 Hydro, is considered to have one of the most
12 comprehensive approaches to addressing energy poverty in
13 Canada.

14 And with that, I'll leave the topic unless
15 you have any questions of me, and I'll hand the mic back
16 to Ms. Ramage.

17 MS. PATTI RAMAGE: I am going to be
18 dealing with the issues of rate design and rate
19 administration, and hopefully getting close to -- I can
20 tell you the end is in sight.

21 We're up to slide 82. There were numerous
22 rate design proposals, or rate design issues, that were
23 explicit or implicit in Manitoba Hydro's Application, or
24 which were raised by participants during this proceeding,
25 or by the Chair in his remarks which -- that he made at

1 the conclusion of the evidentiary phrase (sic).

2 The Chairman's question number 29 asked
3 the parties to comment generally on rate changes as they
4 may deem advisable. Other remarks by the Chair were
5 directed at specific potential rate changes. I'll deal
6 first with the Basic monthly charge; that was the
7 Chairman's question number 34.

8 Manitoba Hydro applied for a reduction in
9 the residential Basic monthly charge from the current --
10 or from the then current six dollars and eighty-five
11 cents (\$6.85) to five dollars and eight-five cents
12 (\$5.85), effective April 1st, 2010, and to four dollars
13 and eight-five cents (\$4.85), effective April 1st, 2011.

14 Manitoba Hydro advised the Board and
15 participants that the proposed reduction was consistent
16 with the Corporation's demand-side management objectives
17 and would be generally favourable to low-income
18 customers. And you'll find that at PUB -- or Manitoba
19 Hydro's response to PUB/Manitoba Hydro Second Round 182B.

20 During the proceeding though, Mr. Warden
21 indicated that Manitoba Hydro accepted the PU's -- PUB's
22 judgment in the 2010 interim order and that the basic
23 monthly charge should not be reduced, and Manitoba Hydro
24 would, therefore, not be pursuing the reduction in this
25 Application. Mr. Warden's evidence in that regard can be

1 found at transcript page 414 through 415.

2 The Corporation's original Application
3 requested that most of the residential increase for both
4 years of the Application be recovered in the over 900
5 kilowatt hour per month block of the energy rate. The
6 proposed rate structure evolution towards steeper
7 inversion was the -- was intended to move the price for
8 usage above 900 kilowatt hours per month towards the
9 marginal cost of providing that energy, and thereby
10 induce greater conservation by the residential class.

11 The PUB in its approval of the interim
12 rate increases in Order 18/'10 reduced the extent of the
13 inversion proposed by Manitoba Hydro for April 1st, 2010,
14 and in Order 40 of '11 reversed all the inversion in the
15 rates and directed a single rate block for the
16 residential class. Manitoba Hydro is not seeking any
17 further changes to the rate structure, as implemented in
18 Order 40/'11 at this time.

19 The Chairman's remarks noted as Question
20 35 raised the issue of rate class consolidation. In
21 Order 150 of '08, the PUB directed Manitoba Hydro to
22 continue the process of consolidating the general service
23 small and general service medium custor -- customer class
24 rate structures, and to provide the Board with a proposal
25 for a stepped up program and a timeframe for completion.

1 And here I'm up to slide 83.

2 Manitoba Hydro filed its plan to
3 consolidate the two (2) rate classes on July 31st of
4 2009, and included the plan in its GRA as -- as Appendix
5 13.8. That plan demonstrated that considerable progress
6 had been made with respect to cons -- consolidation, but
7 there remained the task of consolidating the first block
8 energy rate and the basis monthly charge.

9 In Tab 10 of the Application it was noted
10 that the April 1st, 2010, proposed rates for the small
11 and medium classes reflect a fully consolidated energy
12 and demand charge. Those rates were approved on an
13 interim basis in Order 18 of '10. The remaining gap is
14 in the base -- is in the monthly basi -- basic charge.

15 With the interim rate increase on April
16 1st of 2010, that gap was reduced to two dollars and
17 ninety-five cents (\$2.95) between the basic monthly
18 charge for three (3) phase general service small and the
19 basic monthly charge for general service medium. With
20 the April 1st, 2011, interim increase, the gap was redurs
21 -- reduced to two dollars and five cents (\$2.05). It is
22 expected the gap will be fully closed with the next
23 General Rate Application.

24 There's been no suggestion that the class
25 consolidation is improper or that Manitoba Hydro has not

1 carried it out correctly. The Board has had a --
2 previously endorsed consolidation. Manitoba Hydro
3 submits that its consolidation has been substantially
4 completed. The issue is now effectively resolved.

5 The issue of limited use of billing demand
6 rates is also in the Chairman's question number 35.
7 Manitoba Hydro's application proposed only one (1) change
8 to the structure of the LUBD rate. That is the first
9 KVA's of billing demand be exempt for medium LUBD
10 customers, to be consistent with small LUBD customers and
11 other general service small and medium classes. Other
12 than that, the LUBD retains its fundamental structure of
13 having a demand charge set equal to 25 percent of the
14 demand charge of the corresponding regular general
15 service class, and an energy rate set that a customer
16 would be indifferent between LUBD and the regular class
17 at a billing load factor of approximately 18 percent.

18 The LUBD rate was not addressed during the
19 entire proceeding by any proce -- by any participant.
20 Manitoba Hydro submits the rate structure as proposed
21 should be accepted.

22 Similarly, no Intervenor opposed the
23 approval of the SEP or curtailable rate program ex parte
24 orders. Manitoba Hydro request all such orders up to the
25 date of the Board's order in this proceeding be approved

1 as final. A full listing of the orders is provided in
2 Manitoba Hydro's book of documents at Tab 23.

3 One (1) matter Manitoba Hydro does wish to
4 address with respect to SEP, is the PUB's concerns in the
5 past with respect to Manitoba Hydro making off-peak
6 summer sales to both SEP and export customers.

7 On April 28th, 2009, the Board issued
8 Order 57 of '09, approving the extension of the Surplus
9 Energy Program to March 31st, 2013, and, at that time,
10 requested an explanation and justification for continued
11 sales of off -- off-peak overnight summer exports.

12 Manitoba Hydro believes it's provided the
13 explanation and justification sought by the PUB in its
14 report filed March 4th, 2009, in particular, pages 10
15 through 13 of that document. In addition, we have Mr.
16 Cormie's evidence regarding summer off-peak sales at
17 transcript page 8,119, which was not challenged on the
18 record, and it is worth reviewing here. Mr. Cormie said:

19 "We only sell in the off peak in the
20 summer, because we can't store it, the
21 reservoir is full. Lake Winnipeg is
22 above seven fifteen (715) and you're
23 forced to make the reservoir releases.
24 The water going -- the water's going
25 down the river. If we have the offer -

1 - opportunity of salvaging the value by
2 selling it for a cent, we will. We'll
3 take the cent rather than spilling it.
4 But it's not because we have chosen
5 that the one (1) cent is a profitable
6 transaction compared to the alternative
7 of carrying it over into the winter.
8 We would carry it over to the extent we
9 could."

10 So Manitoba Hydro submits that there's
11 enough information on the record at this proceeding to
12 conclude that the PUB's concern regarding export and SEP
13 summer off-peak sales has -- has now been resolved.

14 But I see the Chairman at the mic, so if
15 I'm -- if we're not there --

16 THE CHAIRPERSON: Well, I'm just drawing
17 back on a -- on a -- on a memory on this. I suggest to
18 you perhaps the -- the major concern on that was -- and
19 it actually gets into your -- your contract limitations,
20 but whether it benefits Manitoba Hydro in the long haul
21 to sell at such prices into the market, as to whether or
22 not it -- it effects the market to any degree that it
23 disadvantages Manitoba Hydro in the long haul.

24 MS. PATTI RAMAGE: Well, we would be
25 selling to SEP customers who are Manitoba customers, so

1 I'm not clear -- we -- we would not sell at overnight
2 rates, at these low rates, at a loss to Manitoba Hydro.
3 It's still recovering Manitoba Hydro's costs; they're
4 just very small at that point. But it would not affect
5 Manitoba Hydro in the export market at all, because that
6 power -- in terms of the SEP power, I'm not...

7 THE CHAIRPERSON: I -- I think -- I think
8 you've actually hit the point. I think -- I think the
9 main -- the main thing that was lying behind it was the
10 concern of selling, making opportunity sales at that
11 price, whether or not it was advantageous to Manitoba
12 Hydro in the long haul, sort of like -- I'll give you a
13 real life example. The Salisbury House on Tuesdays sell
14 -- you buy one (1) thing, everything else you get for
15 ninety-nine (99) cents, so I -- I understand from some of
16 my friends that frequent the place fairly frequently,
17 that the only time they go is Tuesday.

18

19 (BRIEF PAUSE)

20

21 MS. PATTI RAMAGE: Yeah, and I think the
22 key in the export market is we don't set the price in the
23 export market. We're in for such a small percentage that
24 that isn't going to make a difference. They're not going
25 to be -- no one's sitting waiting for Manitoba Hydro.

1 And another aside I would have, because I
2 recall having this conversation myself with Mr. Gaudreau
3 some time ago when -- because this doesn't happen often,
4 but I remember Mr. Gaudreau being concerned about this.
5 And at the time there was transmission constraints that
6 didn't allow us to send the power to the States, and --
7 and that was one (1) of the reasons it was so low.

8 And so there's some other factors at play
9 too. So in that case it was spill the water or give it
10 to a Manitoban at that -- at that price.

11 THE CHAIRPERSON: Thank you.

12

13 CONTINUED BY MS. PATTI RAMAGE:

14 MS. PATTI RAMAGE: Which, as I say, would
15 still -- Manitoba Hydro would still be ahead as opposed
16 to the spill.

17 Next I'll move on to demand energy
18 rebalancing, which refers to the PUB's interest in
19 Manitoba Hydro's recent efforts -- I should say this is
20 slide 87 we're up to -- to gradually recover a greater
21 share of general service class revenues from energy
22 charges, and a correspondingly lesser share from demand
23 revenues.

24 Manitoba Hydro filed its plan to rebalance
25 on July 31st, 2009, and included that plan as Appendix

1 13.7 to its current application. That document noted
2 that between 2003 and 2009 demand charges had either
3 decreased or remained unchanged for all demand billed
4 general service rate classes, while energy charges have
5 increased between 28 percent and 36 percent, depending on
6 the class.

7 The interim rate increases implemented in
8 2010 and 2011 have continued this process of rebalancing,
9 and that all of the increase to the general service
10 classes has been applied to the energy rates.

11 In his evidence, on behalf of RCM/TREE,
12 Paul Chernick, beginning at page 36, takes issue with
13 embedded costs as a benchmark for demand energy
14 rebalancing. Indeed, Mr. Chernick does not believe that
15 demand charges should even exist and should be entirely
16 eliminated from the rates. And there I refer to page 39
17 of his report.

18 Appendix 13.7 of Manitoba Hydro's
19 Application also noted that there may be scope for
20 further demand energy rebalancing beyond the benchmark
21 indicated by relative embedded cost shares. However,
22 unless and until Manitoba Hydro can move to a new rate
23 platform which incorporates time-of-use energy charges
24 for all currently demand-billed classes, Manitoba Hydro
25 submits that the current approach, gradually increasing

1 the emphasis of energy in the recovery of the revenue
2 requirement, is appropriate.

3 Time-of-use rates have been the subject of
4 discussion at past GRAs and Manitoba Hydro understands
5 the Board continues to have an interest in them. We
6 believe that time-of-use pricing is consistent with the
7 variation in marginal energy costs among time periods,
8 and in theory may be applicable to most customer classes
9 served by Manitoba Hydro.

10 Manitoba Hydro believes that developing,
11 piloting, and implementing time-of-use rates, if it is to
12 be undertaken, should begin where the -- where such rates
13 are most easily implemented: that is, with the large
14 industrial customers who are typically more responsive to
15 price signals, are more sophisticated energy users, and
16 who have the required metering infrastructure already in
17 place. If and when time-of-use rates are successfully
18 implemented among Manitoba Hydro's largest customers, the
19 lessons and experience gained thereby can be applied, if
20 appropriate, to similar rate initiatives for other
21 customer classes.

22 Time-of-use rates were not extensively
23 discussed during the hearing portion of the current
24 proceeding. Manitoba Hydro's current Application didn't
25 include a proposal for a general time-of-use rate for any

1 class.

2 The Corporation is currently in
3 consultation with its large energy-using customers over a
4 range of industrial rate and service extension topics,
5 including time of use and energy-intensive rate
6 possibilities. And that brings us to the Chairman's
7 question number 27, which was an invitation to the
8 parties to comment on the need for, and prospects for,
9 future energy-intensive indu -- a future energy-intensive
10 industry rate.

11 MR. ROBERT MAYER: Don't -- don't leave
12 time of use yet so quickly.

13 MS. PATTI RAMAGE: Oh.

14 MR. ROBERT MAYER: There was, in fact,
15 some comment on time-of-use rates by me, and I asked a
16 couple of questions, and I forgot who I was even talking
17 to at that point in time, this hearing's been so long,
18 but is the -- listening to your argument today -- I
19 remember who I was talking to. It was to RCM/TREE when
20 they were -- when I was making the argument that the only
21 place where there's any elasticity is the ability of
22 people to move their ener -- move their usage around.

23 And is the only thing that is preventing
24 time-of-use rates from being implemented across virtually
25 all classes is the cost of the installation of the smart

1 meters?

2

3 (BRIEF PAUSE)

4

5 MS. PATTI RAMAGE: Mr. Vice-Chair, as you
6 can see, I needed assistance from -- from the back row
7 for that one, so what I can tell you is that certainly is
8 one (1) issue, and it's a big issue, but there is a
9 number of issues that relate to administration, customer
10 acceptability, and those type of issues, which Manitoba
11 Hydro would look to try to resolve with that biggest
12 customer group first, moving forward, and then learn the
13 lessons. But -- but it is much more complex than simply
14 just the meters, but the meters are certainly a big
15 issue, too.

16 MR. ROBERT MAYER: Thank you.

17

18 CONTINUED BY MS. PATTI RAMAGE:

19

20 (2) questions with respect to energy-intensive industry
21 rates. I think I covered the first. The second was the
22 invitation to comment on whether or not it's prudent to
23 delay consideration of the energy-intensive industry
24 rate.

25 Manitoba Hydro's ongoing discussions with

1 MIPUG and industrial customers are focussed on industrial
2 rates, rate design, and supporting policy generally, not
3 only on the specific form of an energy-intensive rate. A
4 rate application emerging from this consultation may or
5 may not include an energy-intensive rate -- rate-like
6 rate, but it will be directed at the issues which lead
7 Manitoba Hydro to originally file its Energy Intensive
8 Application, and the concerns by the Board expressed in
9 Order 112/09.

10 The energy intensive rate raises
11 particularly difficult issues related to fair and
12 equitable treatment of new versus existing customers, and
13 new versus existing load.

14 It may not be possible to resolve all
15 issues within the framework of a single rate proposal.
16 While it's prudent to resolve these issues as
17 expeditiously as possible, it would not be prudent to
18 simply refile an application substantially similar to
19 that advanced in February of 2010.

20 Manitoba Hydro requests the continued
21 patience of the Board and Intervenors while it completes
22 the ongoing consult -- consultations, and works towards
23 the best possible solution to issues raised by the gap
24 between current industrial rates and marginal costs.

25 Dealing -- I'm now up to slide 90. In

1 August 2009, Manitoba Hydro applied for an interim ex
2 parte order approving a temporary change to allow billing
3 demand concessions to General Service large and medium
4 customers who were experiencing reduced electrical usage
5 directly resulting from reductions to operations caused
6 by the economic downturn.

7 The concession program was intended to
8 address potentially negative impacts of Manitoba Hydro's
9 demand energy rate structure where operations were
10 curtailed for the purpose of matching output to market
11 demand. And there I refer you to Manitoba Hydro's
12 response to PUB/Manitoba Hydro First Round 167.

13 Affected customers significantly reduced
14 energy usage due to batch processing were unable, but
15 were -- they were unable to reduce their demand.
16 Consequently, the unit energy cost increased, in some
17 cases significantly. See, for example, the unit cost
18 depicted for primary middle sectors ranging up to
19 eighteen cents (.18) per kilowatt hour in Manitoba
20 Hydro's response to PUB/Manitoba Hydro First Round 165A.

21 Manitoba Hydro's demand energy rate
22 structure is useful in signalling the value of both
23 energy and capacity to customers, but it was not designed
24 for sustained periods of sig -- significantly below
25 normal customer operations.

1 The proposed concession was to work by
2 capping the unit energy to qualifying customers at not
3 more than 10 percent higher than the average price based
4 on their operations during a baseline period, the twenty-
5 four (24) month period ending August 2008.

6 In Order 126/09, the PUB approved on an
7 interim ex parte basis a partial payment deferral program
8 for qualifying GSL and GSM customers based on the formula
9 proposed on Manitoba Hydro's Application. The partial
10 deferral was to be carried on Manitoba Hydro's books at
11 Manitoba Hydro's short-term borrowing rate.

12 The Corporation was approved to offer the
13 concession for the months of June through November 2009.
14 Manitoba Hydro provided the PUB with reports on the
15 number of eligible customers, the number of applying and
16 participating customers, and the affected revenues,
17 energy, and demand.

18 The order indicated that the Board would
19 consider further relief when Manitoba Hydro applied for a
20 final order on -- on this Application. Manitoba Hydro is
21 now applying for that final order, which converts the
22 partial bill payment deferral into a true concession as
23 contemplated in the Corporation's original Application.

24 Manitoba Hydro believes this is
25 appropriate for the following reasons, and some of these

1 are outlined in PUB -- or Manitoba Hydro's response to
2 PUB/Manitoba Hydro First Round 167.

3 It's Manitoba Hydro's opinion that billing
4 demand concessions were necessary to retain operations in
5 Manitoba at a time when companies with facilities in
6 multiple jurisdictions were closing the facilities with
7 higher cost of operations in an effort to reduce costs
8 and match inventories with global demand for their
9 products.

10 Retention of these operating facilities in
11 Manitoba enabled facilities to return to normal operation
12 as market conditions improve, protecting Manitoba Hydro's
13 investment in the infrastructure already deployed to
14 serve these customers. Additionally, opportunities for
15 employment and provincial economic activity are retained.

16 With the conclusion of the program in
17 November 2009, Manitoba Hydro has clearly established its
18 liabilities as they relate to the deferrals provided to
19 eligible customers. These liabilities are well within
20 the range of estimates provided by Manitoba Hydro. In
21 fact, the impact on rates is less than originally
22 anticipated.

23 As noted by Mr. Warden at transcript page
24 418, the total amount of the liability is 1.3 million,
25 which was well below the originally estimated cost of the

1 program.

2 Further, as was noted by MIPUG this
3 temporary concession has permitted Manitoba Hydro to
4 continue receiving revenue from these customers, more
5 than it would have received had it become necessary to
6 sell the energy as surplus at a time of low spot market
7 prices. And there I refer to MIPUG's evidence at
8 transcript page 7,291.

9 Manitoba Hydro firmly believes that this
10 concession is similar to others that it makes available
11 to demand-billed customers. Mr. Warden noted, at
12 transcript page 4,557 that:

13 "Manitoba Hydro, within its service
14 extension policies, does have a
15 provision for billing concessions for
16 unusual circumstances. Other unusual
17 circumstances in which Manitoba Hydro
18 has provided demand billing concessions
19 include but are not limited to
20 unintended demand caused by failure of
21 equipment and lower than normal load
22 factor due to commissioning new
23 equipment. Manitoba Hydro and its
24 customers definitely saw the economic
25 slowdown of 2008/'09 as a very unusual

1 circumstance for which Manitoba Hydro's
2 demand billing practices in unmitigated
3 form were not intended."

4 During -- during the close of inter
5 submissions on -- Intervenor submissions on Tuesday a
6 couple of issues arose which I'd like to address. The
7 first is: Should there have been some requirement for
8 participating customers to provide fina -- financial
9 information in support of their applications for the
10 demand concession?

This issue was first raised in Order 126/09 beginning at page 14 in which the Board indicated that this was some additional information that may be considered for finalisation of the order. Manitoba Hydro was quite clear on this matter.

16 In response to PUB/Manitoba Hydro First
17 Round 167B, Manitoba Hydro advised:

1 Manitoba Hydro's products and/or
2 services may not directly relate to
3 those factors. The Corporation's
4 objective in providing for relief was
5 to ensure that energy costs, which are
6 universal to operations in all
7 jurisdictions, not contribute to the
8 competitiveness or lack thereof of a
9 Manitoba based operation."

10 There was, therefore, no requirement for a
11 qualifying customer to file or have reviewed its
12 financial information.

13 Furthermore, Manitoba Hydro did not want
14 to have to involve itself in a complex evaluation of
15 financial data to determine how distressed the customer
16 might be and what was the degree of contribution of
17 electrical rates to that distress.

18 Given the short-term nature of the
19 program, it may not have even been possible to do with
20 any meaningful financial screening. The program was
21 intended to deal with adverse impacts of the rate
22 structure under conditions beyond the normal experience.

23 The second issue that was raised on
24 Tuesday was by the Vice-Chair regarding small -- a small
25 nonprofit organisation not receiving that same

1 concession. Manitoba Hydro's not privy to the details of
2 the case cited by the Vice-Chair, but it is unlikely the
3 -- the unit costs of such operations were significantly
4 affected by the economic downturn.

5 First, such off -- operations are often
6 served at the general service small rate, whether they're
7 --- whether -- whether they are either not billed for
8 demand or whether a significant portion of their demand
9 is not billed.

10 Even if they were a General Service medium
11 or large class, where all demand is billed, they are not
12 industrial operations whose load factors can shift
13 radically in response to the requirement to reduce
14 production.

15 In light of the foregoing, Manitoba Hydro
16 takes issue with the characterisation which was made at
17 several points in the hearing that this is a form of
18 corporate welfare, transcript page 4,556, or bill
19 affordable -- bill affordability, at transcript 5,818.

20 Customers who participated in this program
21 actually saw increases to their unit price of energy
22 accompanying their reduced use of energy. In an exchange
23 with the Vice-Chair, at transcript page 5,818, Mr. Warden
24 not only addressed this issue head on but provided a
25 compelling summary supporting Manitoba Hydro's request.

1 Mr. Warden said:

2 "It certainly wasn't affordability that
3 we were considering when we introduced
4 the Billing Demand Concession Program
5 for a very temporary period to deal
6 with the downturn in the economic
7 cycle, a very serious downturn in the
8 economic cycle that could have forced
9 businesses, put certain companies out
10 of business, and that would have a
11 direct impact on the economy of the
12 province and people, possibly low-
13 income, that work for those businesses.
14 The fundamental problem though that we
15 were addressing was that because of the
16 structure of our rates there were some
17 customers [and we went over that today
18 with Mr. Hacault] that were paying
19 sixty (60) cents and higher per
20 kilowatt hour, and our rates were never
21 really designed to do that, and a
22 demand charge and an energy charge --
23 [or I'm sorry] and our rates were never
24 really charged to do that with a demand
25 charge and an energy charge. The

1 average was certainly never intended to
2 go to those exorbitant levels. That's
3 what it was trying to address.

4 In our policies, our customer service
5 policies do have some provision to
6 build -- to provide concessions for
7 unusual circumstances that -- that
8 arise out of our billing practices.

9 That's what this was addressing. I
10 think that's totally different than
11 some kind of a low -- low-income type
12 program for a class of customers."

13 And Mr. Warden went on to say:

14 "But if there was another segment of
15 our population, possibly low-income,
16 that was affected because of a quirk in
17 our billing structure then we -- we
18 would address it. We would -- we would
19 address it. And I think every billing
20 structure has to have provision for
21 exceptions and that's what this was."

22 On Tuesday Mr. Williams asked that:

23 "If the PUB approves Manitoba Hydro's
24 request to make the concessions final,
25 it should do so in express recognition

1 that is -- it is addressing exceptional
2 circumstances."

3 That is precisely the nature and intent of demand
4 concessions at Manitoba Hydro. They are intended to
5 address those unique and rare circumstances in which a
6 normally good rate is producing perverse results. And,
7 as a result, Manitoba Hydro has absolutely no objection
8 to Mr. Williams' request in that regard.

9 Now I was going to move to a new topic,
10 but --

11 MR. ROBERT MAYER: Don't go there, yet.
12 I'll try to avoid the corporate welfare bum analogy
13 again. And -- but isn't it -- there is a concept of
14 ability to pay in the argument you just made. I just
15 heard from Ms. Boyd that Hydro can't deal with ability to
16 pay. I'm sorry, you can deal with ability to pay from
17 your richest customers but you can't deal with ability to
18 pay from your poorest?

19 That -- that -- I'm not going to go a lot
20 farther with this. It was argued it was a rate design
21 problem. We haven't seen any change in the rate design.
22 If -- if that's the case we should be at least hearing
23 about a change in the rate design. But, I'm sorry, when
24 the public looks at something like this they've got to
25 wonder what a Crown corporation, as opposed to a

1 corporation that has to report to its shareholders on how
2 much money it earns, but it has -- the concept, or at
3 least the appearance, I suggest, makes the argument that
4 there's no ability that we can -- that you can't deal
5 with ability to pay, somewhat suspect.

6 MS. PATTI RAMAGE: Sir, I have to
7 disagree with you on the question of ability to pay
8 because I think the whole notion -- or the whole
9 objective of this program was on a -- a very unique quirk
10 that occurred with this -- what normally was a good rate,
11 that when we had an unexpected and very large economic
12 downturn, people were paying rates that were, as Mr.
13 Warden talked about, sixty (60) cents per kilowatt hour.
14 That's a problem with the rate in this unusual
15 circumstance where people are taking their batch-type
16 processes and reducing them and then suddenly for their
17 efforts to try to reduce and keep going, or instead of --
18 of getting a benefit or finding their unit cost of energy
19 is actually going through the roof, which was never
20 intended.

21 So -- and Manitoba Hydro did in fact cap
22 that with that -- with the 10 percent in terms of it --
23 it wasn't a program that you could easily get into. You
24 had to show that you had a -- a 10 percent increase. So
25 I don't think it was an ability to pay question. It was

1 a -- a rate design question. And when you say fixing it,
2 it's a good rate, it's just this one (1) situation and we
3 need that flexibility.

4 In another situation that I'm aware of,
5 the billing demand had a, I'll call it, systemic issue
6 and that would be for enterprises like ski hills where we
7 were finding they were getting hit with the billing
8 demand in a way that Manitoba Hydro and ultimately this
9 Board felt was inappropriate and we did put in a rate
10 design change. We put in the LUBD to help those
11 customers. And so those customers are not paying the --
12 the same demand rate. They're -- and they're not paying
13 -- the small customers are not paying for their first 50
14 kVAs. And -- and we've put in that kind of concession.

15 Manitoba Hydro, because of the unique
16 circumstances, doesn't see that there's a permanent
17 change needed but there's a change to recognize this one
18 (1) unique circumstance.

19 MR. ROBERT MAYER: I -- I have your
20 argument, Ms. Ramage, that the 10 percent sounds an awful
21 lot like a means test. I have your point.

22 MS. PATTI RAMAGE: But the -- but the 10
23 percent is on the change of the rate. It's not change on
24 the ability to pay. It's -- it's that if your actual
25 cost, your unit cost, went up by -- by greater than 10

1 percent. So the ability to pay doesn't -- whether a
2 company was about to go under or whether a company was
3 able to manage, better manage some of those changes to
4 its processes, it -- it -- that 10 percent was just the -
5 - the factor where we said the billing, the actual rate
6 design at 10 percent has gone too far out of whack. So I
7 don't think it has anything to do with their ability to
8 pay.

9 MR. ROBERT MAYER: It -- it was a means
10 test, very clearly a means test. That's what gave you
11 access to the program. But I have your point and I'm not
12 going to pursue that a lot further but...

13 MS. PATTI RAMAGE: I'd like to pursue it
14 a little further with you though, Mr. Mayer, because I'm
15 not understanding why you think the 10 percent in a rate,
16 unit rate cost, becomes a means test. If it was a 10
17 percent cost to the customer overall but it's in their
18 actual unit rate where we look at the amount of deviation
19 compared to their two (2) previous years of -- of what
20 they were paying as a unit cost.

21 MR. ROBERT MAYER: I --

22 MS. PATTI RAMAGE: So I -- I'm having
23 trouble understanding. So if -- if you can help me
24 understand maybe I can help you.

25 MR. ROBERT MAYER: Okay. In order to

1 access the program they had to establish that they were
2 paying 10 percent more, 10 percent or more over their
3 existing unit cost. That, by definition, is a means
4 test.

5 THE CHAIRPERSON: If Mr. Mayer's words
6 were just changed to say the criteria for entering the
7 program was that.

8 MS. PATTI RAMAGE: It was definitely a
9 criteria in terms of how out of whack your rate has gone.

10 THE CHAIRPERSON: A long -- it's been a
11 long time since I've done cost accounting. I can
12 fortunately barely remember some of it but the -- they
13 usually break them down into fixed and variable costs,
14 I'll grant you that, but in -- insurance doesn't change,
15 despite output, property taxes don't change. There's all
16 sorts of functions that costs don't change because of a -
17 - of a drop in -- in production. That's true, is it not?

18

19 Like the premiums, there's fixed costs
20 that operations incur, regardless if they're down for
21 summer break or vacations or -- or, in this particular
22 case, an unfortunate, more than unfortunate for an awful
23 lot of people, circumstance.

24

25 (BRIEF PAUSE)

1 MS. PATTI RAMAGE: I think there's two
2 (2) points to be made there. One is that Manitoba Hydro
3 had the ability, through its rates, to keep people
4 working and keep people employed and keep companies
5 competitive through its rates, through a concession that
6 -- that it was not out of line with its policies and
7 which would not -- when you talk about things like the
8 summer shutdown or something, they would not have been
9 eligible to use this rate if their past billing practices
10 were for those sort of things. So they would have
11 already planned costs like that into their budgets.

12 It's -- this was -- this was an unexpected
13 unit cost that they couldn't react to appropriately
14 because when they did react to it their unit costs went
15 up, which wouldn't be the norm.

16 THE CHAIRPERSON: Well, undoubtedly,
17 we'll have to give a lot of -- of thought to this. You -
18 - you had mentioned one (1) other part to this. You were
19 explaining before, when you were talking about -- the
20 lower bill assistance idea was that Manitoba Hydro, in
21 the mandate, you weren't allowed basically to do things
22 that governments would undertake. If your measure was --
23 was undertaken to prevent higher unemployment, isn't that
24 a matter for government?

25 MS. PATTI RAMAGE: I -- I think it is,

1 except for when it's, for Manitoba Hydro, that we're
2 going to lose money because these people are not working
3 and we're not selling the power to them any more, then I
4 think it -- it maybe does come within -- it becomes a
5 greater interest to Manitoba.

6 And if I could just go back to your one
7 (1) other point when you talked about property taxes and
8 those sort of costs, in that situation you're still --
9 the -- the customer is still getting their garbage pickup
10 once a week and they are still getting the same service.
11 They might -- they might find in that case it -- it's --
12 it's expensive because they have to pay those same rates
13 because of their other economic circumstances but in
14 Manitoba Hydro's case we're not paying -- supplying the
15 service anymore. They're not -- their -- their actual
16 purchase of our -- our product has gone 50 percent but
17 they're paying a higher rate. And so I think that's the
18 difference. They're still getting -- when they pay their
19 other service costs they're still getting the service.
20 And in our case, they -- they were reducing their service
21 but increasing their cost.

22 THE CHAIRPERSON: Well -- well, through
23 your able services, I think that we have a pretty good
24 grasp on the point that you're making, and I do
25 understand the distinction that you're making from some

1 of the other things.

2

3 CONTINUED BY MS. PATTI RAMAGE:

4 MS. PATTI RAMAGE: Okay, thank you. I'm
5 going to move to the cost of service study, which is an
6 interesting topic in this hearing. And here the Chairman
7 invited all parties to comment on whether or not changes
8 to the cost of service study are required.

9 Manitoba Hydro believes that there are
10 some possible changes that could be made to the cost of
11 service study but it would prefer to advise the Board and
12 Intervenors with respect to these matters once it has
13 reviewed and developed a response to the independent
14 consultant report that is being prepared on the COSS.
15 And if -- for the record, if I say COSS instead of cost
16 of service study, when we read the transcripts that's --
17 it -- it means one and the same.

18 It is also Manitoba Hydro's strong
19 preference that the Board not issue any directives in its
20 forthcoming order with respect to cost of service
21 methods, whether on its own initiative or at the behest
22 of any other party. Such directives would better await
23 the filing and review of the independent report and
24 Manitoba Hydro's response thereto.

25 Manitoba Hydro did file a prospective cost

1 of service study for the fiscal year '09/'10 as Appendix
2 11 and subsequently in May of 2010 Manitoba Hydro filed a
3 prospective cost of service study, or PCOSS, for 2010/'11
4 as Appendix 58. In its main filing, Tab 11, Manitoba
5 Hydro noted that it supported most but not all of the
6 directives provided by Board Orders 117/06 and 116/08 and
7 that Manitoba Hydro continued to have concerns that the
8 results under the directed methodology could not be
9 relied upon as class revenue requirement benchmarks or
10 for rate design.

11 Manitoba Hydro noted further that it
12 intended to engage external consulting services to review
13 the cost of service methodology for consistency with cost
14 causation, utility economics, and the range of regulatory
15 practice in North America and, pursuant to that review,
16 to make appropriate recommendations with respect to
17 either maintaining or varying those methodologies. As
18 such, Manitoba Hydro recommended that PCOSS-10 and PCOSS-
19 11 be accepted for information only at this time because
20 the current rate application is being filed on an across
21 the board basis.

22 Manitoba Hydro's filing also reviewed PUB
23 directives in Orders 117/06 and 116/08 and provided its
24 response. In Tab 11 at page 3, the Corporation noted
25 that:

1 "PCOSS-10 includes a single export
2 class that is allocated generation and
3 transmission costs on the same basis as
4 did domestic customers."

5 Manitoba Hydro continues to believe that consideration
6 still -- should still be given to separate opportunity
7 and dependable export classes. And this is one (1)
8 option that will be further considered in the upcoming
9 external review of the cost of service study.

10 The issues discussed in PCOSS-11 beginning
11 at page 7 include assignment and/or allocation of the
12 cost of thermal generation, assignment of DSM cost to the
13 export class, forecast versus historical actual prices
14 for export revenues, assignment of cost associated with
15 trading desk, MAPP, and MISO. The export class, the cost
16 it attracts, and the treatment of net export revenues are
17 all matters that significantly bear on the cost of
18 service results and are a focus of the independent
19 review.

20 MIPUG supports Manitoba Hydro's with --
21 position with respect to DSM costs, here I refer you to
22 transcript page 7,275, and the appropriate prices to
23 include in the forecast of exports. There's transcript
24 page 7,276. MIPUG comments on but does not take a
25 position with respect to the assignment of cost

1 associated with the trading desk, MAPP, and MISO. And
2 there I refer you to the prefiled testimony of Messrs.
3 Bowman and McLaren at page 56.

4 While MIPUG took issue with Manitoba
5 Hydro's treatment of thermal generation costs, its
6 overall perspective on the cost of service study was that
7 it represents a fair allocation of costs among the
8 various classes. Both in their pre-filed evidence and
9 again in their final submission on Tuesday at page 8,
10 MIPUG concluded, quote:

11 "The Board should rely on the results
12 of the embedded cost of service study
13 as a key tool for reviewing and
14 implementing fair and reasonable
15 rates."

16 End quote.

17 Mr. Hacault then went on to make the
18 interesting assertion that this conclusion was not
19 challenged during the proceeding. I'm assuming this was
20 intended to refer to cross-examination only because
21 Manitoba Hydro had noted in its rebuttal evidence that
22 there were significant issues which were included in the
23 external review of the cost of service study that could
24 substantially affect the results.

25 On page 40 of rebuttal Manitoba Hydro

1 reviewed the PUB's directive from Order 116/08 regarding
2 the incorporation of marginal cost into the cost of
3 service study. While Messrs. Bowman and McLaren appear
4 to believe that the introduction of marginal cost con --
5 concepts will have a limited impact on the cost of
6 service study results, and there I refer to their pre-
7 filed testimony at page 54, Manitoba Hydro does not want
8 to prejudge the results of the current external review of
9 this particular aspect of the cost of service study, nor
10 does it wish to prejudge the PUB's review of any
11 recommendations that may flow from that independent
12 review.

13 It would be premature to conclude, as
14 MIPUG's witnesses appear to do, that this issue will not
15 have a material impact on the results of the study. As
16 Manitoba Hydro noted in its rebuttal evidence, it was
17 demonstrated during the 2008 GRA, and this is at Exhibit
18 Manitoba Hydro 68, the impact on cost of service results
19 is potentially considerable.

20 Manitoba Hydro would also point out that
21 in significant measure the conclusions of Bowman and
22 McLaren with respect to class revenue cost coverage
23 ratios and their subsequent recommendations about
24 differentiated rate changes by class rely on assumptions
25 about the cost of making export sales and the appropriate

1 treatment of any net export revenues over and above those
2 costs.

3 The key recommendation of Bowman and
4 McLaren appear at page 62 of their pre-filed testimony
5 and again in their direct evidence at transcript page
6 7,283. They conclude and recommend as follows. As
7 summarized in Table 5.1, there is evidence that six (6)
8 of nine (9) major rate classes are currently paying rates
9 that approximate the cost to serve them or are -- or are
10 above this level even before the allocation of any
11 surplus export revenues. In this context, these classes
12 largely merit a class-specific level of rate adjustment
13 that is close to the core benchmark targeted in the
14 respective IFF forecast. Classes that remain well below
15 this level, notably, GSL zero to 30 kVs and residential,
16 merit rate adjustments in excess of benchmark level.

17 In this context, Messrs. Bowman and
18 McLaren appear to be suggesting that the entire
19 allocation of net export revenues is a policy variable
20 and should not enter into the determination of class RCC
21 ratios and any conclusions drawn therefrom. In other
22 words, conclusions should be based on RCCs prior to any
23 allocation of net export revenues. This is an
24 interesting perspective, but if it's to be taken
25 seriously and if it's to be explored it need -- you need

1 to recognize that the acceptability of these results is
2 critically dependent on getting the cost causation right
3 when it comes to the treatment of exports.

4 In MIPUG's Table 5.2 on page 61 of their
5 pre-filed testimony they purport to demonstrate the class
6 RCCs prior to the allocation of what they call policy
7 credits, i.e., next -- net export revenues, is high -- is
8 as high as 108.8 percent for the class of customers that
9 they represent and only 88.8 percent for residential
10 customers.

11 This result, however, is critically
12 dependent on the allocation of cost depicted in their
13 Table 5.1 on page 58, which shows the unit cost
14 associated with exports at four point two nine (4.29)
15 cents per kilowatt hours and those associated with their
16 clients general service large over a hundred kV at only
17 three point two six (3.26) cents, a difference of 32
18 percent. Manitoba Hydro cannot accept this as credible
19 in terms of cost causation given that roughly half of
20 exports are opportunity sales which should not carry as
21 much res -- much more responsibility than variable costs.

22 If these results were modified to more
23 closely reflect cost causation by the export class, all
24 domestic RCCs prior to policy credits would decline. But
25 those classes for whom generation and transmission were

1 most prominent in the cost profile, that is the general
2 service large greater than 100 kV, they would decline the
3 most.

4 The independent cost of service study
5 review will fully consider the assignment and allocation
6 of costs against exports. It is appropriate to obtain
7 and review the results of the independent study before
8 drawing conclusions with respect to class RCCs before
9 these policy credits. A similar caveat should be placed
10 on conclusions and recommendations flowing from class RCs
11 after allocation of net export revenues. Currently,
12 Manitoba Hydro allocates those net revenues on the basis
13 of class total costs. Prior to 2008 they were allocated
14 on the basis of class generation and transmission loads.
15 There may be methods identified during independent review
16 that are more appropriate and should receive due
17 consideration.

18 MR. ROBERT MAYER: Ms. Ramage, I think
19 we're prepared to accept your argument with respect to
20 waiting -- awaiting the independent study. No, I know
21 we're prepared to await for your independent study. I
22 don't think we're going to be messing with -- with those
23 distributions. And I think that position applies with
24 respect to class results in ZOR and the treatment of
25 thermal costs. I think we're going to want to hear all

1 that. You've -- you've hired an independent expert. I'm
2 thinking that we'd like to see the independent expert.

3

4 CONTINUED BY MS. PATTI RAMAGE:

5 MS. PATTI RAMAGE: Great. Thank you for
6 that. So I think we can jump ahead then in the outline
7 to page 97. And that's the end of my water so I'm going
8 to have to move quickly now, you'll be pleased to hear.

9 The Chairman raised a number of issues
10 related to the PUB's participation in the regulatory
11 review of Manitoba Hydro's capital plans and export
12 contracts. Here I'm referring to Chairman issues number
13 5, 19, and 40. And I'd like to note that these comments
14 were prepared prior to the service of the subpoena and --
15 and so while they may touch on some of those issues they
16 certainly were not intended to specifically address those
17 issues.

18 Manitoba Hydro is firmly of the view that
19 the Board's role is properly one (1) of rate approval and
20 does not absent an order -- absent an order from
21 government, extend to review or approval of the
22 Corporation's capital plans nor the export contracts
23 which underpin the advancement of those plans. Manitoba
24 Hydro's subject to a complex oversight framework with
25 government, the Board of Manitoba Hydro, the PUB, Crown

1 Corporation's Council, and other regulatory bodies, each
2 assigned responsibility for specific functions.
3 Apparently someone wants me to go longer.

4 Manitoba Hydro and its government-
5 appointed Board are charged with responsibility to
6 provide for the continuance of a supply of power adequate
7 for the needs of the province and to engage in and
8 promote economy and efficiency in the development,
9 generation, transmission, distribution, supply and end
10 use of power, the section we're all -- I think we've
11 become quite familiar with.

12 Section 2(b) of the Manitoba Hydro Act
13 specifically empowers the -- Manitoba Hydro to market and
14 supply power to persons outside the province on terms and
15 conditions acceptable to the Manitoba Hydro-Electric
16 Board. No provision is made for regulatory review of the
17 terms and conditions of the export contracts themselves
18 and any attempt to do so would likely be met with
19 constitutional and trade challenges.

20 But legal challenges aside, practical
21 considerations dictate it's not feasible to regulate
22 export contracts. To which contracts would regulation
23 apply? Real-time? Day-ahead? Year-ahead? Long-term?
24 And where would you draw the line and on what basis. All
25 are entered into in a competitive market.

1 The Board may well wonder then how are
2 these contracts before US regulators. Mr. Cormie
3 explained the US process to best -- to the best of his
4 ability. In the US our counterparties are required to
5 file their power resource plans. It's a process not
6 dissimilar from our NFAAT processes. Price may be
7 considered in terms of comparing the Manitoba Hydro
8 resource to the cost of alternate resources such as
9 buying or building wind or thermal but the regulator is
10 in no way approving or adjusting that price. Similarly,
11 Man -- the Manitoba Hydro Public Utility Board can't
12 impose a price on our extraprovincial customers.

13 The parties to this proceeding are no
14 doubt well versed in the legislative provisions that
15 define the PUB's jurisdiction with respect to Manitoba
16 Hydro and in particular its capital plans. The
17 relationship between the PUB and Manitoba Hydro is
18 governed by the Crown Corporation's Public Review and
19 Accountability Act, or I refer to it for short as -- in
20 short as the Accountability Act, in particular, Section
21 26, which grants the PUB jurisdiction to review and
22 approve rates for service.

23 Contrary to Mr. Williams' suggestion the
24 test for rates is not derived from Section 77 of the PUB
25 Act. Mr. Williams' submission in this regard appears to

1 ignore the effect of Section 2(5) of the PUB Act and
2 Section 26(3) of the Accountability Act, where nothing
3 outside of Part 1 of the PUB Act, dealing with procedural
4 matters for the conduct of a PUB review of -- of a rate
5 application, apply to Manitoba Hydro.

6 In any event though, getting back to the
7 capital plan question, the Manitoba Hyd -- the Manitoba
8 Court of Appeal's clear and unequivocal 1980 decision
9 confirmed the PUB does not, under its ordinary mandate,
10 have jurisdiction to approve the Corporation's capital
11 plans. Now, that decision is contained -- and I'm sure
12 you're familiar with it --

13 MR. ROBERT MAYER: I don't think that's
14 in issue. I don't think that's in issue at all, Ms.
15 Ramage. I think the only argument that seemed -- that
16 we, as a Board, may have with Manitoba Hydro is: Do the
17 results -- or do your contracts and your required
18 development reflect on rates? And if they do then we at
19 least should be able to see them.

20 But I think now I'm getting into the topic
21 we don't want to discuss in the subpoena but it's --
22 clearly expansion will result in -- in affect on rates.
23 Where that dividing line is as to how much we can comment
24 on and how much we can see I suppose may be left up to
25 another body to determine but the issue is not -- we know

1 what the law is with respect to our ability to -- to
2 control capital development and -- and we're not in the
3 picture. But insofar as it affects rates, we are of the
4 view that we have the right at least to see what the
5 possibilities are that rates will impact, how they will
6 impact, and whether they will impact in a fair and just
7 manner.

8

9 CONTINUED BY MS. PATTI RAMAGE:

10 MS. PATTI RAMAGE: Okay. And I notice,
11 in the Chairman's comments, he asked the parties to
12 comment whether the PUB should rely on the NFAAT hearing
13 and avoid duplicating that work, so I'm going to address
14 part of your comments in response to that question of the
15 Chairman's.

16 And he asked in -- he specifically asked
17 the parties to turn their minds to the Court of Appeal's
18 decision when making its comments, and that's why I had
19 introduced the concept, because I agree, I -- I think
20 everybody in the room is -- is well aware of that
21 decision and -- and its -- certainly its basic impact. I
22 think the issue goes to the next level, as you've
23 addressed.

24 But in terms of duplicating an NFAAT,
25 Manitoba Hydro's view is the PUB must rely on decisions

1 of the parties duly appointed to make those decisions.
2 To do otherwise is contrary to law and, from a pac --
3 practical perspective, is rife with pitfalls. And this
4 also goes to the degree of how far one goes into looking
5 at those capital plans. For example, what is the
6 Corporation to do if the NFAAT panel directs one (1)
7 course of action and the PUB recommends another? There
8 are numerous parties with an interest in the NFAAT that
9 are not regular PUB participants. Are they to intervene
10 in one (1) process and not the other, or would they --
11 should they incur the costs of -- of coming to both
12 because the PUB could be making comments or
13 recommendations that could impact their interest?

14 MR. ROBERT MAYER: Ms. Ramage, I -- I'm
15 not sure how useful this is going to be. The province is
16 going to say who's going to do the NFAAT. There was a
17 time, as I understand it, in history, and not all that
18 ancient history, where the PUB, as a matter of course,
19 conducted NFAAT hearings. That changed significantly
20 with the -- with the Wuskwatim because now that the
21 environmental assessments are mandatory in generation
22 projects, we now have -- the government of the day, in
23 its wisdom, said they didn't want two (2) hearings. They
24 had to have an environmental hearing, they didn't want to
25 duplicate the process, and they appointed two (2) members

1 from this Board to -- and instructed the Clean
2 Environment Commission to do the -- the needs for and
3 alternatives to hearing as well as the envir -- as well
4 as the environmental one.

5 We could probably sit around here for the
6 rest of the afternoon, but I don't think it would be
7 incredibly useful in light of the fact that the province
8 will do what the province will do in appointing who's
9 going to -- who, if anybody, is going to do a needs for
10 and alternatives review.

11 MS. PATTI RAMAGE: You've -- you've
12 aroused my curiosity with the "if anybody" comment, Mr.
13 Chairman. I might be able to help you if...

14 MR. ROBERT MAYER: Well, the -- we've
15 heard comments there will be. There will be an
16 independent body, and of course we've all heard
17 announcements that somebody's building Keeyask. So I'm
18 not sure how useful any conversation we can have at this
19 table will be for anybody.

20

21 (BRIEF PAUSE)

22

23 MS. PATTI RAMAGE: Mr. Mayer, I -- this
24 may be stating the obvious, or I'm not sure, but on
25 Tuesday or Monday when you spoke, I think it was with Mr.

1 Williams regarding this topic of the "if anybody," I went
2 back to the office and if it is of assistance, something
3 I have here that I don't think is particularly
4 controversial, but if it gives the PUB some sense I do --
5 did get consent to provide a letter because I think the
6 Vice-Chair asked Mr. Williams if he knew what was going
7 on in terms of an NFAAT. And -- and I'm not sure that
8 it's going to tell you much more than we've -- we've told
9 -- in fact, I know it's not going to tell you more than
10 we've told you on the record.

11 But I -- I can tell you that a letter in
12 January of 2011 was sent from the minister responsible
13 for Hydro assuring that an NFAAT is going to be required
14 for the Keeyask and Conawapa projects and I -- I have
15 that here if that's --

16 THE CHAIRPERSON: Yes, that would --

17 MS. PATTI RAMAGE: -- of interest.

18 THE CHAIRPERSON: That is of interest.

19 And perhaps Mr. Singh could copy it for us.

20

21 (BRIEF PAUSE)

22

23 THE CHAIRPERSON: Thank you, Ms. Ramage.
24 That is helpful.

25 MS. PATTI RAMAGE: Mr. Warden just said

1 he thought we'd already filed it. When I checked we
2 hadn't, and letters between the Minister and Manitoba
3 Hydro aren't normally filed, so that's -- this week I
4 went back and said, Can I bring this back to the panel to
5 give them at least what we know. So --

6 THE CHAIRPERSON: Okay.

7 MS. PATTI RAMAGE: -- I have that for
8 you.

9 THE CHAIRPERSON: Okay. You can proceed.

10

11 CONTINUED BY MS. PATTI RAMAGE:

12 MS. PATTI RAMAGE: But in any event, so
13 we've received assurance from government that an NFAAT
14 will take place. We can't tell you any more about who's
15 going to do it.

16 But getting back to the discussion
17 regarding this Board's role, I -- I think in order to
18 have a meaningful discussion I think we want to consider
19 the scope of the information which the PUB could
20 conceivably require in order to satisfy its rate approval
21 mandate and compare that to the information in an NFAAT
22 to see what the difference really is.

23 And there's no dispute that the cost of
24 capital projects have to be reflected in rates. However,
25 taking the cost of capital projects into account in rates

1 -- in the rate approval process is quite different from
2 reviewing and opining on the merits of the capital
3 projects or possible alternative development plans.

4 And -- and I think that comes to Manitoba
5 Hydro's concern. Manitoba Hydro has made extensive
6 efforts in this proceeding to provide the Board with
7 requested information and to ply -- apply the widest
8 possible latitude in identifying what information could
9 possibly be of relevance to the approval of rates.

10 THE CHAIRPERSON: Ms. Ramage --

11 MS. PATTI RAMAGE: Yeah.

12 THE CHAIRPERSON: -- I think this Board
13 can decide what it needs, what it requires --

14 MS. PATTI RAMAGE: Well --

15 THE CHAIRPERSON: -- and how it plays
16 into how we see our mandate.

17

18 (BRIEF PAUSE)

19

20 MR. ROBERT MAYER: I don't know where
21 you're going from here, Ms. Ramage, but I don't think the
22 Board's going to fuss with the City of Winnipeg's issue.

23 MS. PATTI RAMAGE: No.

24 MR. ROBERT MAYER: And I for one, and I
25 don't think anybody disagrees -- let's put it this way.

1 The Southern Chiefs' intervention was very disappointing.

2 MS. PATTI RAMAGE: I'm sorry, I was
3 listening to two (2) things. Sorry, Mr. Mayer.

4 MR. ROBERT MAYER: That -- that the
5 Southern Chiefs' intervention was very disappointing.

6 MS. PATTI RAMAGE: Yes. I -- I wanted to
7 finish on this topic though with two (2) things. One (1)
8 is to mark this letter as an exhibit. And that would be
9 Manitoba Hydro Exhibit 161 -- 162.

10 THE CHAIRPERSON: 162 is fine.

11

12 --- EXHIBIT NO. MH-162: Letter

13

14 CONTINUED BY MS. PATTI RAMAGE:

15 MS. PATTI RAMAGE: Okay. And then I just
16 wanted to -- Mr. Chairman, the -- the one (1) point
17 though is that at your issue number 20, you -- where is
18 it? The PUB -- you asked whether there should be any
19 negative inferences drawn from -- from the lack of all
20 the various alternative development scenarios that the
21 Board had requested.

22 And that's why we were going into this
23 topic, is whether the Board should draw negative
24 inferences for Manitoba Hydro not filing every
25 alternative scenario. And -- and our view was simply

1 that we don't have that information today. That
2 information is something that will be prepared for an
3 NFAAT but that Manitoba Hydro believes that you have all
4 the information that -- that you need in order to give
5 our -- to -- to look at the rate approval that we're
6 seeking today.

7 And I did want to go into some detail beca
8 -- on -- on one (1) issue related to the 1989 capital
9 plans Court of Appeal case relating to an issue Mr.
10 Williams raised. And that was where Mr. Williams asked
11 this Board to use its rate approval function to send
12 messages to Manitoba Hydro. And I think that's a
13 different issue than what we've talked about. And that's
14 really where my focus -- and I think maybe when you're
15 looking at the slides you're -- you're misinterpreting
16 where my focus is going because I want to address Mr.
17 Williams' comments about sending messages to Hydro.

18 And because in the Court of Appeals
19 decision -- or in that decision the stated case that this
20 Board referred to the Court of Appeal was does the PUB
21 have jurisdiction to approve, reject, or vary Manitoba
22 Hydro's capital project plans, such as plans to construct
23 new generating stations incidental to or as a condition
24 of granting approval for changes in the price charge for
25 power. And remember that Mr. Williams has asked you to

1 take percentages away from our rate increase if you don't
2 like what we're doing and add them back on. And that's
3 been his submission. And I think that case really
4 addressed that kind of submission.

5 And what I've done is I've gone back and
6 looked at the PUB's factum and Manitoba Hydro's factum to
7 see exactly what the court was deciding when they were
8 asked to decide the question of do they have the po --
9 does the PUB have the power to do this incidental to its
10 rate approval function. And the PUB's factum itself took
11 the position that the PUB doesn't have jurisdiction to
12 direct Manitoba Hydro in advance of its capital projects,
13 what you're saying today, but that the Board does have
14 the power to make recommendations if it's asked.

15 At that time, the PUB acknowledged even if
16 Manitoba Hydro was making what it viewed as a terrible
17 mistake in capital plans, it said, We don't have any say
18 in going forward, that's at Tab 27, but we can deal with
19 it in the rates when you actually get to the year once
20 you're in service. That was the PUB's view at the time.
21 I'm not suggesting you're bound by that view. I'm just
22 telling you what the court heard when they made this
23 determination.

24 In response, and man -- and that's at Tab
25 28, Manitoba Hydro put the issue to the court or

1 responded to that issue, saying that if the PUB were able
2 to withhold rate increases required to enable Manitoba
3 Hydro to recover costs of capital projects it would have
4 gained this power indirectly inasmuch as Manitoba Hydro's
5 funds are primarily raised from this source and its
6 practical ability to carry out its mandate depends on the
7 availability of the requisite money. It is submitted
8 that such transfer of power as would result would not be
9 a reasonable interpretation of the role of the Public
10 Utilities Board provided in the legislation. And, again,
11 that's at Tab 28.

12 And so the importance of this is that the
13 notion that Mr. Williams has put forward, that the PUB
14 may use its rate approval ma -- mandate to send a message
15 on matters outside its jurisdiction, whether it be
16 capital plans or DSM, and do indirectly what they can't
17 do directly, was put straight in front of the court, and
18 that was the issues argued before it. So when it came to
19 the -- when it answered the question, No, it can't do
20 incidental, I think that's -- that's exactly what the
21 court was saying. You cannot do incidentally what you
22 can't do directly.

23 MR. ROBERT MAYER: Mi -- Ms. Ramage, that
24 wasn't what I understood Mr. Williams' argument to be.
25 And I -- I think his jacket might still be here, but I

1 haven't seen him for a while. And if he were here, he
2 could probably sort us all out. But I heard the message
3 on the O&A costs and -- saying that you're not being
4 efficient enough. You're -- you're running amuck and
5 that we can adjust rates if we are of the opinion that
6 your operation and maintenance costs are too high and
7 you're not appropriately managing the -- the operations
8 of the Company.

9 I'm not sure that I agree with it but
10 that's what I understood his argument to be. And that
11 you're entitled to recover not all costs that you spend
12 but maybe costs reasonably and properly spent. That was
13 what I had understood his argument. I don't know how
14 that would have got into any capital spending we were
15 talking about.

16 MS. PATTI RAMAGE: What -- what I heard
17 him say was we weren't doing enough on DSM and Manitoba
18 Hy -- send Manitoba Hydro the message, reduce 1 percent
19 because you're not doing enough on DSM and give them back
20 half a percent from that to -- for -- for the future.
21 And what I'm saying is that this decision says you can't
22 do in -- indirectly what you can't -- you shouldn't be
23 doing --

24 THE CHAIRPERSON: Yeah, we --

25 MS. PATTI RAMAGE: -- indirectly what you

1 can't do directly.

2 THE CHAIRPERSON: -- we have your point
3 and we'll review the transcript to see what he had -- had
4 to say.

5 MS. PATTI RAMAGE: Okay. And the very
6 good news is I am now turning it over to Ms. Boyd to
7 bring us home. And with -- with our conclusions, I
8 think.

9 MS. MARLA BOYD: Just scrolling through
10 the last pieces of the -- the material that's before you,
11 you have our slide summarizing the issue with respect to
12 live spreadsheets and you may have noted at Tab 30 that
13 we have filed a written argument in that respect. I
14 think our position is -- is fairly well understood and we
15 don't propose to review it at this point but I'll leave
16 it to the Board to be reviewed at your pleasure.

17 I -- I take your comments with respect to
18 the City of Winnipeg submission and the fact that we
19 don't need to review that. Again, our slide 103
20 summarizes the position. We did not accept the City of
21 Winnipeg's position in writing although it wasn't
22 advanced orally, so I don't think there's much need to
23 address that. And I --

24 THE CHAIRPERSON: I -- I'm sorry to break
25 in right now given -- given we're so close, but Ms.

1 Pambrun made the, I think, assertion that Manitoba Hydro
2 had -- had no dialogue with the City. Is -- is that the
3 case?

4 MS. MARLA BOYD: No. In fact, that's
5 exactly the piece that we don't accept. And -- and
6 there's been a -- a number of questions both in this
7 process and outside of this process where there's been
8 ongoing communication between the City and Manitoba
9 Hydro. There was over a hundred and forty (140) separate
10 information requests in this process alone. Manitoba
11 Hydro has also previously responded to formal written
12 questions that were submitted by the City outside of our
13 process. So -- so we don't -- we don't accept those
14 comments but we -- we did indicate that our -- our
15 willingness to continue to try and meet with the City and
16 --

17 THE CHAIRPERSON: Has Manitoba Hydro
18 actually sat down and met with the City's officials?

19 MS. PATTI RAMAGE: Yes, I've been in some
20 of those meetings, and so I think the City's submission,
21 quite frankly, is mistaking -- or is -- is confusing
22 understanding with willingness to try to explain.

23 THE CHAIRPERSON: Well, the impression
24 left by what Ms. Pambrun was -- to be frank was that you
25 -- Manitoba Hydro had -- had not followed up and had not

1 met with the City and sort of left -- left them wondering
2 why they were being charged this or that.

3 MS. PATTI RAMAGE: Every question, to the
4 best of knowledge that they submitted, which was in
5 writing, was responded to in writing. And I believe --
6 and there was follow-up meetings following that. Whether
7 the City understood or accepted the answers is a
8 different story. And I can't comment on that.

9 But there was also the opportunity here to
10 -- to cross-examine. And -- and the suggestion in Ms.
11 Pambrun's submission was that Manitoba Hydro took away
12 that opportunity when we didn't rely on the cost of
13 service. And we didn't think that was fair because the
14 cost of service studies were in fact filed and questions
15 were in fact asked on them. It was just that we weren't
16 relying on them for our across the board increase.

17 THE CHAIRPERSON: Okay. Thank you.
18 Sorry, Ms. Boyd.

19
20 CONTINUED BY MS. MARLA BOYD:

21 MS. MARLA BOYD: That's fine. I -- I can
22 also offer the Board a brief update regarding the diesel
23 application which I know is of some interest to the
24 Board. On July 5th, which was Tuesday I believe,
25 Manitoba Hydro filed an application with the PUB for an

1 interim ex parte order to eliminate the tail block rate
2 to the residential class of customers for the four (4)
3 diesel communities.

4 The rates currently affecting the diesel
5 communities were approved in Order 134/10, which was
6 issued on December 22nd of 2010. This application filed
7 this week is intended to address, in part, Directive 6 of
8 Order 134/10, which required Manitoba Hydro to develop
9 and file a five (5) year fully-costed plan to mitigate
10 residential customers -- to migrate residential customers
11 to grid rates for all consumption.

12 Our current application is meant to
13 provide immediate rate relief to residential customers
14 and thereby access to grid rates. No other changes are
15 proposed within that application. We have provided a
16 copy of that application to previous parties to the
17 diesel proceedings, specifically CAC/MSOS, MKO, and to
18 INAC, and have included with the application a status
19 report on the directives from Order 134/10.

20 THE CHAIRPERSON: Ms. Boyd, the Board
21 will be back to you on that point. We obviously received
22 the application. The issue from our perspective is: Why
23 ex parte?

24 MS. MARLA BOYD: Well, actually, in -- in
25 reviewing that summary, I -- I wondered the same myself,

1 and -- and given that we've served three (3) parties, I
2 don't know that it's truly described as an ex parte
3 application anymore, but it was originally filed with --
4 with that word in it, and --

5 THE CHAIRPERSON: This is a very unusual
6 way of doing it, but we've discussed it ourselves and
7 we're just thinking we presumably can find some form of
8 expedited written, paper-based process, even if it
9 happens to involve a -- a day of -- of hearing.

10 MS. MARLA BOYD: Certainly. We'd be
11 pleased to discuss that further with you. That will be
12 Ms. Fernandes that -- that addresses that matter, but I'm
13 certain she'll be happy to discuss that.

14 MR. ROBERT MAYER: We -- we did note that
15 ex parte appeared more than once in the -- in the
16 Application, and so we took it that you really meant it,
17 but --

18 MS. MARLA BOYD: Apparently --

19 MR. ROBERT MAYER: -- I couldn't quite
20 understand why you would serve anybody if you were asking
21 for an ex parte application.

22 MS. MARLA BOYD: Yes, I -- I agree with
23 your comments.

24

25 CONTINUED BY MS. MARLA BOYD:

1 MS. MARLA BOYD: Just by way of
2 conclusion, Manitoba Hydro filed this application a long,
3 long nineteen (19) months ago, and this process has
4 involved thousands and thousands of information requests
5 that have been responded to by Hydro and by Intervenors
6 and experts. You have heard, I believe, more than forty-
7 one (41) days of evidence, including witnesses for Hydro;
8 KPMG; ICF; the two (2) independent consultants, Drs.
9 Kubursi and Magee; and, by my count, eight (8) experts
10 engaged by three (3) Intervenor groups. You've heard
11 three (3) days of argument, and you have at your disposal
12 almost nine thousand (9,000) pages of transcript
13 references.

14 The simple questions before the Board, and
15 for which Manitoba Hydro seeks approval, are outlined on
16 our -- our slide 106. I'm not going to reiterate all
17 those requests; they're -- they're before you. The only
18 thing I would note is that, with respect to the request
19 for additional implica -- implementation of an additional
20 .9 percent increase effective August 1st, that in order
21 to implement such an order we would request that the
22 Board provide their order or their finding in that
23 respect by July 22nd.

24 As we all know, this hearing has focussed
25 much more on other items than it has on the matters that

1 are central to the Board's jurisdiction over Manitoba
2 Hydro. In addition to considering these rate requests,
3 the PUB mandated that this hearing would review Manitoba
4 Hydro's risks and its risk-management practices. It is
5 Manitoba Hydro's fervent hope that there is -- all of the
6 information exchanged over these nineteen (19) months has
7 been adequate -- adequate to satisfy you that Manitoba
8 Hydro has managed its risks well and is taking the
9 appropriate steps to ensure that those risks will be
10 managed well into the future.

11 The allegations raised by the New York
12 Consultant have been dismissed by all experts who
13 appeared before you. The inflammatory allegations of
14 blackouts and billion-dollar losses are unsubstantiated.
15 Although there's been some suggestions for minor
16 improvements, the evidence of the experts, both those
17 called by Hydro and those called by the Intervenor groups
18 and the independent consultants, all essentially confirm
19 that Manitoba Hydro's practices and models are
20 appropriate, and that the risks are being managed
21 appropriately.

22 Manitoba Hydro will give consideration to
23 the suggestions and the recommendations made by these
24 experts as part of its desire to continuously improve its
25 practices, but there has been no evidence brought before

1 -- before you to suggest that there's a need to be
2 concerned with Manitoba Hydro's risk-management
3 practices.

4 This hearing confirms the evidence that
5 has been put forward for many years by Manitoba Hydro:
6 One (1) of the most significant risks faced by the
7 Corporation is drought. The evidence also demonstrates
8 how Manitoba Hydro is an organization in the business of
9 managing droughts. We cannot make it rain, nor can we
10 predict whether or when it will rain, but the systems in
11 place ensure that Manitoba load is given the highest
12 priority for service. This is true in the modelling,
13 it's true in the system operating parameters, and it's
14 true in the negotiation of terms in the export contracts
15 which allow Manitoba Hydro to curtail its export
16 obligations in the face of drought.

17 This hearing has also demonstrated that
18 the systems by which Manitoba Hydro manages its operation
19 and its risks are complex, and we've seen from the
20 evidence of the experts who have attempted to replicate
21 Manitoba Hydro's work that the system is complicated and
22 variable. One cannot create a set of rules and operate
23 as those -- as though those rules will apply in all
24 situations.

25 A great deal of time has been expended in

1 the hearing, and particularly in the IR process, because
2 of some stakeholders, participants, or advisors who are
3 operating on the mistaken assumption that Manitoba
4 Hydro's system can be reduced to a simple set of rules,
5 and that it is nego -- and that its operations, excuse
6 me. Manitoba Hydro's system cannot be reduced to a
7 simple set of rules, and its operation in the face of
8 uncertain weather forecasts ought not to be judged, or
9 even condemned with hindsight.

10 The role of this Board is not to apply
11 hindsight to the decisions made by Manitoba Hydro,
12 whether in the 2003/'04 drought or at any other time.
13 The role of this Board is to consider the forecast of the
14 Corporation as contained in the integrated financial
15 forecast, and to satisfy itself that the rates sought by
16 the Corporation provide sufficient monies to cover
17 operating, maintenance, and administration expenses of
18 the Corporation, interest expense on debt, and a
19 sufficient level of equity.

20 In conjunction with a review of rates
21 mandated by the CCPRA, the Board can also take into
22 consideration any other factors it considers relevant.
23 To that end, the Board has informed itself of the longer-
24 term financial implications of the decade of investment,
25 followed by the decade of returns.

1 These longer-term financial forecasts are
2 simply that; forecasts. And while they may be useful to
3 inform the Board as to its rate decisions in the test
4 year, they are not adequate to determine Manitoba Hydro's
5 future development plans, nor is the PUB expected to draw
6 conclusions regarding preferred and alternative
7 development scenarios in this hearing.

8 The volume of information in this
9 proceeding is overwhelming, and if we were successful
10 today in making Mr. Williams look like a piker, as the
11 Vice-Chair suggested, then I must say I confess that we
12 owe thanks to our colleague, Ms. Fernandes, who has been
13 invaluable in terms of coordinating that material for us.

14 We want to conclude by thanking all of the
15 parties involved for their efforts in digesting and
16 testing the information, and the Board for its attention
17 and patience throughout the process.

18 I have been asked to convey a special
19 thanks to the counsel and expert witnesses of MIPUG and
20 RCM/TREE, or Action Centre Verte, for their construct --
21 their constructive contributions to the proceeding.

22 It was especially refreshing to hear Mr.
23 Hacault's comments about the positive aspects of Manitoba
24 Hydro, and how we are the envy of other jurisdictions.

25 Manitoba Hydro certain echoes those

1 comments, and sincerely hopes that all parties can keep
2 the best interests of energy consumers first and foremost
3 in proceedings.

4 We encourage the Board, in the face of the
5 volume of material before them, to return to the
6 questions that are central to the Application, being the
7 approvals that are sought by Manitoba Hydro.

8 We are confident that the evidence has
9 been thoroughly tested, and that the requested rate
10 increases are just and reasonable, and reflect the
11 appropriate balance of the interest of the ratepayers,
12 and the ongoing need for a financially stable utility.

13 Subject to any questions which you have of
14 us, that concludes Manitoba Hydro's submission.

15 THE CHAIRPERSON: Thank you, Ms. Boyd and
16 -- and Ms. Ramage. I'm -- I don't mean to be a
17 fussbudget, but --

18 MS. ANITA SOUTHALL: Mr. -- Mr. Chairman,
19 sorry, I -- I did have to put the closing submission of
20 SCO on the record as an exhibit, so I apologize. I
21 haven't done that.

22 THE CHAIRPERSON: If you give me a second
23 I'm going to ask you to do that.

24 MS. ANITA SOUTHALL: Okay.

25 THE CHAIRPERSON: Okay?

1 MS. ANITA SOUTHALL: Thank you.

2 THE CHAIRPERSON: First of all I was
3 going to say, in the interchanges between the parties, I
4 think it might be helpful -- I believe it was -- it was
5 you, Ms. Boyd -- if you could just read in your -- your
6 response with -- with respect to SCO?

7

8 (BRIEF PAUSE)

9

10

11 THE CHAIRPERSON: It's page 104.

12 MS. MARLA BOYD: I -- I'm afraid I took
13 Mr. Vice-Chair Mayer's desire to move forward a little
14 too seriously, but Manitoba Hydro did review SCO
15 submission, and finds no merit in their position.

16 Contrary to the Board's clearly stated
17 direction in Order -- Order 30/10, SCO is seeking to use
18 the public utility rate and risk review as a forum to
19 seek compensation for unproven and unsustainable
20 allegations of liability for property and other damages.

21 As the PUB has stated at the outset, this
22 is not the proper forum for dealing with such claims, and
23 we would submit that the PUB has no jurisdiction to order
24 the relief claimed by SCO.

25 THE CHAIRPERSON: Thank you.

1 Ms. Southall, if you wouldn't mind now
2 putting in SCO's closing statement into the record, and
3 then I'll provide our closing remarks.

4 MS. ANITA SOUTHALL: Thank you, Mr.
5 Chairman. So SCO's closing written submission was
6 provided by their counsel, Mr. Rath, circulated by email
7 to the Board and all participants on June 22nd, 2011.

8 And it should be noted as marked as SCO
9 Exhibit 3. Thank you.

10 THE CHAIRPERSON: Thank you.

11

12 --- EXHIBIT NO. SCO-3: Final Submissions of SCO

13

14 THE CHAIRPERSON: This brings to an end
15 the public segments of Manitoba Hydro's GRA for 2009/'10
16 and '10/'11 rates filed late in 2009, distracted at
17 times, and certainly significantly extended by a) the
18 intervention of the former Manitoba Hydro advisor NYC; b)
19 related matters; c) the wait of Manitoba Hydro's
20 preferred development plan which would, if it gained
21 regulatory approval, involve a development plan costing
22 in excess of 16 billion, and new export contracts; and
23 also d) the Board's concern about Manitoba Hydro's risk.

24 In all, this has been the longest hearing
25 in the -- in the Board's history. While questions of

1 cost and -- and value, and -- and value for money for at
2 least some aspects of this lengthy process, and actions
3 taken through it could be debated for some time. There
4 can be no doubt as to the efforts made by all persons and
5 parties associated and/or directly involved in the
6 proceeding, and we thank everyone involved in it. It was
7 certainly a testing process and a very lengthy one, and a
8 lot of enormous work, obviously, went into it.

9 So on behalf of the Board, I thank one and
10 all. An order with respect to this Hearing will come in
11 due course.

12 Manitoba Hydro has indicated a preference,
13 if not, an intention to file another GRA for a further
14 rate change, as I understand it, to take effect April
15 1st, 2012. Manitoba Hydro has also indicated an
16 interest, given this hearing experience, for an expedited
17 approach for this new GRA, presumably in such a late fall
18 for a GRA that could be filed in the -- in the late -- in
19 late fall, an updated IFF, an updated CIF -- CF -- EF,
20 and further relevant information would be filed.

21 Presumably as well, by that time, the
22 matter of the Board's subpoena will have been dealt with,
23 and perhaps even a new EIIR, or an EIIR-like proposal,
24 may be readied. We understand the recession ended some
25 time ago -- it's just a note -- and perhaps Manitoba

1 Hydro's COS study may be available, or at least an update
2 on that.

3 So, with that, we stand adjourned. Thanks
4 again.

5

6 --- Upon adjourning at 4:25 p.m.

7

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11 Certified correct,

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18 Cheryl Lavigne, Ms.

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