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MANITOBA PUBLIC UTILITIES BOARD

Re: MANITOBA HYDRO'S APPLICATION
FOR APPROVAL OF NEW ELECTRICITY RATES
FOR 2010/11 AND 2011/12

Before Board Panel:

Graham Lane - Board Chairman
Robert Mayer, Q.C. - Board Member

HELD AT:

Public Utilities Board
400, 330 Portage Avenue
Winnipeg, Manitoba
June 7, 2011
Pages 7622 to 7878

1 APPEARANCES

2 Bob Peters) Board Counsel

3 Anita Southall (np))

4

5 Patti Ramage) Manitoba Hydro

6 Marla Boyd)

7

8 Byron Williams) CAC/MSOS

9 Myfanwy Bowman (np))

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11 Antoine Hacault) MIPUG

12

13 Michael Anderson (np)) MKO

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15 William Gange (np)) RCM/TREE

16

17 Delanie Coad (np)) SCO

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19 Denise Pambrun (np)) City of Winnipeg

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21 Gavin Wood (np)) Independent Experts

22

23 David Forsyth) Gerdau

24

25

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1 --- Upon commencing at 9:34 a.m.

2

3 THE CHAIRPERSON: Okay. Good morning,
4 everyone. Welcome to Mr. Matwichuk and Mr. McCormick.
5 Sorry, it's just early morning. So this morning we have
6 CAC/MSOS's witnesses, Mr. Williams. And then we'll have
7 Mr. Singh swear the witnesses in.

8 MR. BYRON WILLIAMS: Yes, Mr. Chairman,
9 certainly. And then I'll have some preliminary matters
10 before we get to their qualifications.

11

12 CAC/MSOS PANEL:

13 GREG MATWICHUK, Sworn

14 JOHN MCCORMICK, Sworn

15

16 MR. BYRON WILLIAMS: Yes, and good
17 morning, Mr. Chairman and Mr. Vice-Chair. Are -- the
18 first order of business is just to distribute three (3)
19 matters which we intend to have marked as exhibits. And
20 I -- I did want to note, and I'm certainly prepared to
21 speak to this more, but that there is some updates and
22 new information in the slides of Mr. -- Mr. McCormick.

23 But I've had the opportunity to speak to
24 My Learned Friend, Mr. Hacault, and my understanding is
25 that he has no objection, and also with My Learned

1 Friend, Ms. Boyd, who I -- I'm quite confident Hydro will
2 have some quibbles with the interpretation of the
3 material, but my understanding is that they have no
4 objection to it being admitted.

5 So I wasn't going to foist it upon the
6 Board until I'd taken the opportunity to speak with My
7 Friends. And my understanding is that they don't have
8 any objections. If they do, speak now or forever hold
9 your peace.

10 With that, Mr. Chairman, I'd like to ask
11 Mr. Singh to provide the Board with the direct evidence
12 of Mr. Matwichuk, which we'd suggest be marked as
13 CAC/MSOS-29, and it's a beautiful blue colour. Mr.
14 Matwichuk wishes to assure you that that is not a
15 reflection of his own political views or the -- the --
16 it's -- you know, Albertans seem to like dark blue, for
17 some reason.

18

19 --- EXHIBIT NO. CAC/MSOS-29:

20 Direct evidence of Mr. Matwichuk

21

22 MR. BYRON WILLIAMS: There's also a one
23 (1) page document titled, "Evidence and Information
24 Request Errata of Mr. McCormick," which we'd suggest be
25 marked as CAC/MSOS number 30.

1 --- EXHIBIT NO. CAC/MSOS-30:

2 Evidence and Information Request Errata of
3 Mr. McCormick

4

5 MR. BYRON WILLIAMS: Mr. McCormick
6 advises me that his legal counsel distributed the second-
7 last version of it as -- as opposed to the last version,
8 so there will be one (1) additional errata that he will
9 bring to your attention.

10 And, Mr. Chairman, the third document we
11 would draw to your attention is -- and ask that it be
12 marked as Exhibit 31 is the presentation of Mr.
13 McCormick, dated June, 2011.

14

15 --- EXHIBIT NO. CAC/MSOS-31:

16 Presentation of Mr. McCormick, dated June
17 2011

18

19 MR. BYRON WILLIAMS: Is that
20 satisfactory, Mr. Chairman?

21 THE CHAIRPERSON: Yes.

22 MR. BYRON WILLIAMS: And, Mr. Chairman,
23 just for the Board's information, if you're -- if you're
24 looking for the -- the new things that are not on the
25 record I'll just provide you with the page numbers. And,

1 as I said, these were provided to counsel in advance.
2 The pages that this new information appears on are pages
3 25.

4 MR. ROBERT MAYER: Okay. Which one are
5 we dealing with now?

6 MR. BYRON WILLIAMS: Sorry, Mr. Mayer --
7 Mr. Vice-Chair. It's the presentation of Mr. McCormick,
8 number 31, sir. And the new information, just for the
9 Board's information is on page 25, and pages 44 through
10 49.

11 THE CHAIRPERSON: 40 -- 45 to 49, is that
12 what you said?

13 MR. BYRON WILLIAMS: I misspoke, Mr.
14 Chairman: 44 through 49.

15

16 (BRIEF PAUSE)

17

18 THE CHAIRPERSON: Very good, sir.

19 MR. BYRON WILLIAMS: And just -- we're
20 hoping to minimize the paper shuffling. Our expectation
21 is that the direct of Mr. McCormick will take -- excuse
22 me, Mr. Matwichuk will take most of the morning. When --
23 when Mr. McCormick's evidence is up there are two (2) --
24 this is -- this is probably something persons could do at
25 the break, there are two (2) information requests that

1 one might want to have reference to.

2 And this is for Mr. McCormick's evidence
3 which will come later. That is PUB Hydro 1-35E, 1-35E.
4 And secondly, PUB/CAC-1-13 Exhibit 1 to that response,
5 Exhibit 1. And again, that will come up a bit later in
6 the day.

7

8 (BRIEF PAUSE)

9

10 MR. BYRON WILLIAMS: And, Mr. Chairman,
11 and Mr. Vice-Chair, we're -- we're now prepared to
12 proceed with qualifications of the witness.

13

14 EXAMINATION-IN-CHIEF BY MR. BYRON WILLIAMS (QUAL):

15 MR. BYRON WILLIAMS: And good morning,
16 Mr. Matwichuk and Mr. McCormick.

17 MR. GREG MATWICHUK: Good morning, sir.

18 THE CHAIRPERSON: I think everyone's read
19 the qualifications if you want to move to the areas of
20 expertise that they want -- you wish them to be qualified
21 for it might speed things on a bit.

22 MR. BYRON WILLIAMS: Mr. Chairman, great
23 minds think alike. That's exactly where we're going to -
24 - to start. Mr. Chairman, we seek to qualify Mr.
25 Matwichuk as an expert in regulatory accounting with a

1 particular focus on revenue requirement analysis,
2 regulatory principles, regulatory risk assessment, rate
3 making forecasting, and regulatory mechanisms/solutions,
4 which may be used to address issues arising -- arising
5 from the preceding areas.

6 And in terms of Mr. McCormick, we seek to
7 qualify him as an expert in capital markets, including
8 such areas as debt financing, equity financing, business
9 evaluation for the purpose of financial decision making,
10 and modelling for the purpose of financial decision
11 making.

12 THE CHAIRPERSON: Thank you, sir. Mr.
13 Hacault, does your -- do you have any comments?

14 MR. ANTOINE HACAULT: No objections.

15 THE CHAIRPERSON: I don't see Mr. Gange
16 here. Maybe I'm missing someone. I don't see Ms.
17 Pambrun. Ms. Boyd.

18 MS. MARLA BOYD: Thank you. We have no
19 objections.

20 THE CHAIRPERSON: Mr. Peters, any
21 comments?

22 MR. BOB PETERS: No objections.
23 Certainly, sir, I could also indicate Mr. Gange did tell
24 me yesterday and I forgot to pass on that he would not be
25 attending today as his clients take no issue with the

1 evidence being presented by these witnesses.

2

3 RULING (QUAL) :

4 THE CHAIRPERSON: Very good.

5 MR. ROBERT MAYER: They take no issue
6 with the evidence being presented by these witnesses?

7 MR. BOB PETERS: I -- I'm thinking as to
8 what Mr. Gange told me and I believe that's exactly what
9 he told me.

10 THE CHAIRPERSON: Mr. Williams...?

11 MR. BYRON WILLIAMS: I was wondering if
12 Mr. Peters could get that in writing from Mr. Gange, Mr.
13 Chairman.

14

15 EXAMINATION-IN-CHIEF BY MR. BYRON WILLIAMS:

16 MR. BYRON WILLIAMS: Before proceeding
17 with the direct of Mr. Matwichuk, and then subsequently
18 Mr. McCormick, there's a couple of preliminary steps.

19 Mr. Matwichuk, you are responsible for the
20 evidence marked as CAC/MSOS Exhibit number 6, titled
21 "Manitoba Hydro General Rate Application for Rates Based
22 on the 211 -- 2010/'11, 2011/'12 Test Years - Direct
23 Evidence of Greg Matwichuk."

24 Is that correct, sir?

25 MR. GREG MATWICHUK: Yes, sir.

1 MR. BYRON WILLIAMS: And you were also
2 responsible for Information Responses
3 PUB/CAC/MSOS/Matwichuk number 17 through 24.

4 Would that be correct, sir?

5 MR. GREG MATWICHUK: Yes, that's correct.

6 MR. BYRON WILLIAMS: And you were
7 responsible, sir, for the Information Responses
8 MIPUG/CAC/MSOS/Matwichuk 1-1 through 1-3.

9 Would that also be correct, sir?

10 MR. GREG MATWICHUK: Yes, that is
11 correct. Thank you.

12 MR. BYRON WILLIAMS: And can you confirm
13 that material was prepared under the direction -- under
14 your direction, care, and control, sir?

15 MR. GREG MATWICHUK: Yes, it was.

16 MR. BYRON WILLIAMS: And to the best of
17 your knowledge are there any material errata and/or
18 updates in your evidence that you wish to bring to the
19 attention of the Board?

20 MR. GREG MATWICHUK: None, that I'm aware
21 of.

22 MR. BYRON WILLIAMS: And so you're
23 prepared to proceed?

24 MR. GREG MATWICHUK: Yes, sir.

25 MR. BYRON WILLIAMS: And before we get to

1 you, Mr. McCormick -- my apologies to the court reporter.
2 I can also indicate, Mr. Chairman and Mr. Vice-Chair,
3 that Ms. DeSorcy has joined the crowd today.

4 Mr. McCormick, you're responsible for the
5 written evidence marked as CAC/MSOS Exhibit number 5,
6 written evidence of John D. McCormick on behalf of CAC
7 and MSOS, dated December 10th, sir?

8 MR. JOHN MCCORMICK: While I don't know
9 the exhibit number off by heart. Yes, I did write
10 evidence dated December 10, filed in this proceeding.

11 MR. BYRON WILLIAMS: Thank you for that,
12 sir. And you were also responsible for the preparation
13 of responses to PUB/CAC/MSOS McCormick Information
14 Requests 1 through 16.

15 Would that be correct, sir?

16 MR. JOHN MCCORMICK: Correct.

17 MR. BYRON WILLIAMS: And that material,
18 both the written evidence and the information responses,
19 was prepared under your care and control, sir?

20 MR. JOHN MCCORMICK: Yes.

21 MR. BYRON WILLIAMS: And are there any
22 material errata and/or -- errata that you wish to bring
23 to the Board's attention?

24 MR. JOHN MCCORMICK: We --

25 MR. BYRON WILLIAMS: And I direct the

1 Board's attention to CAC/MSOS Exhibit 30.

2 MR. JOHN MCCORMICK: I prepared Exhibit
3 30. What you see is a preliminary draft. There is one
4 (1) correction which I would like to add to Item number 2
5 in the Revision to Evidence, which refers to page 59.

6 The additional information which does not
7 appear on the printed sheet that you have, is that the
8 number seven three five seven (7357) should be seven
9 three seven five (7375), and the number one three zero
10 (130) should be one four eight (148). And with that
11 amendment to the errata sheet, the evidence, to the best
12 of my knowledge and belief, is correct.

13 MR. BYRON WILLIAMS: Mr. McCormick,
14 perhaps just for my benefit, could you repeat the page
15 number, sir.

16 MR. JOHN MCCORMICK: The page is 59 in
17 Item number 2 on the Revisions to Evidence. And the
18 number seven three five seven (7357), where it appears in
19 the table following line 3 should be seven three seven
20 five (7375), and the number one thirty (130), which
21 appears in that table, should be one forty-eight (148).

22 MR. BYRON WILLIAMS: Thank you for
23 that. And Mr. Matwichuk, we're now ready to proceed with
24 your -- your evidence. And just to the Board before we
25 proceed, we expected that the Board would try to ex --

1 expedite the qualifications and we understand that
2 totally.

3 Mr. Matwichuk will give you just a -- a
4 brief introduction of himself which will just take a few
5 minutes and will not be nearly as extensive as
6 qualifications.

7 And with that, Mr. Matwichuk, I'd ask you
8 to proceed.

9 MR. GREG MATWICHUK: Thank you, Mr.
10 Williams. Good morning, Mr. Chairman and Mr. Vice-
11 Chairman, the Board staff, and all other parties. It's
12 good to be back here in Winnipeg and I'm grateful for the
13 opportunity to appear once again for this tribunal, and
14 to present and discuss issues that are of significance to
15 this jurisdiction and, more specifically, with respect to
16 Manitoba Hydro and its ratepayers.

17 I've had the good fortune of being asked
18 to appear before you on behalf of the Consumers
19 Association of Canada Manitoba, and the Manitoba Society
20 of Seniors. For those who've not seen me in some time,
21 I'm -- or for those who I have not had the pleasure of
22 meeting, I thought I might provide you with a brief
23 background.

24 As a chartered accountant, I have had the
25 good fortune of providing written and oral testimony with

1 various issues of revenue requirement, cost
2 responsibility, risk, regulatory principles, regulatory
3 accounting, to name a few. That testimony has been in
4 various jurisdictions, including this Board and other
5 provincial and federal reg -- regulators. In that
6 milieu, I have worked in a variety of regulated
7 industries: electricity, gas distribution, oil and gas
8 pipelines, as well as telecom.

9 I am fortunate to have appeared before
10 this Board on a number of occasions. That was
11 principally dealing with Centra Gas, the revenue
12 requirements, and the impact of the -- on the gas
13 ratepayers of the purchase of it by Manitoba Hydro. I've
14 had the opportunity to work with a number of Manitoba
15 counsel on a variety of other proceedings, providing
16 advice and input to their cases before this Board. In
17 consulting my CV, you will see that I have worked with
18 Ernst & Young, were there for six (6) years at Ontario
19 Hydro at the time, a vertically integrated utility, was a
20 client, and involved audit, accounting and regulatory
21 issues in which I was intimately involved in.

22 Since that time, I've represented a large
23 municipality, the City of Calgary, and I have advised two
24 (2) regulatory boards on electricity rate-related
25 matters. I have represented industrial power consumers

1 in Alberta, and various anti-poverty and consumer groups
2 in various jurisdictions across the country, including
3 before regulatory tribunals -- tribunals, as well as some
4 large private industries, particularly on pipeline
5 matters.

6 In all, Mr. Chairman, I have been blessed
7 with the opportunity to be a student of regulatory
8 matters and regulatory risk and ratepayer impacts for in
9 excess of twenty-seven (27) years. My CV is Attachment 2
10 in Exhibit CAC/MSOS Exhibit 6.

11 Turning to my evidence, there are four (4)
12 key components of coverage and how they are considered in
13 the evidence and in my recommendations in written and
14 oral testimony. First, Mr. Chairman, I wanted to
15 consider who are the domestic ratepayers, and how are
16 they impacted by Manitoba Hydro decisions and forecasts?

17 Second, I wanted to consider risks. In
18 this and previous proceedings, there exists an extensive
19 record of framing and chronicling risk, as well as quant
20 -- attempts at quantifying financial consequences of
21 risk. I do not intend to venture into that realm; the
22 record is plentiful on that score. Rather, in terms of
23 risk, my focus is on how the risks and rewards in running
24 a utility like Manitoba Hydro play into the role and the
25 consequences of being a domestic ratepayer.

1 Thirdly, the focal point of my evidence is
2 a rate stabilization mechanism, and I've addressed it
3 here as an RSM, as I will throughout the rest of this
4 direct. In my evidence, I had given it the moniker of an
5 RSR, but I have tried to clarify that it is not a
6 reserve, it is not a fund, and we will -- we will deal
7 with that shortly. But the fundamentals for it are based
8 in risk and who bears the risks.

9 Finally, the fourth area that I'd like to
10 deal with is -- is a secondary focus, and that is out of
11 Manitoba Hydro's historical references to certain
12 financial targets.

13 At the heart of my evidence are the
14 Manitoba Hydro export forecasts, the significant
15 variances, the impact on the income statement volatility,
16 and how the RSN -- RSM can help overcome these gaping
17 variances to the benefit of ratepayers.

18 I would like to get right to the point, if
19 I may, and that means addressing forecasts, specifically
20 export revenue forecasts, export revenue variances, and
21 the RSM. We'll then turn to the four (4) components I
22 mentioned on the previous slide, and then examine the
23 fundamentals that lead to the RSM.

24 You'll see in -- in this graph, Mr.
25 Chairman -- I'll address the red line shortly, but to

1 give it some context, in my evidence I noted that there
2 are large variances between forecast export revenue and
3 actual export revenue. And from this graph you can see
4 that the variance was significant, or has been
5 significant, and was as high as 48 percent of forecast
6 and on average over 22 percent off the mark.

7 The red line represents the variance, the
8 difference between the forecast and actual. That's the
9 variance I'm talking about for export revenue over the
10 period 2001 to 2009. You may observe that variances are
11 both positive and negative, around zero, but
12 predominantly above the zero line, i.e., positive
13 variances or actual export revenue exceeds forecast. And
14 --

15 MR. ROBERT MAYER: Sir, we are to assume,
16 therefore, that zero doesn't mean they made no money,
17 zero is what they forecasted to make.

18 Is that correct?

19 MR. GREG MATWICHUK: Yes, it's the
20 variance off the forecast, that's correct, Mis -- Mr.
21 Mayer. Yes, that -- that is a -- it is a difference
22 between what Manitoba Hydro actually ended up exporting
23 in terms of dollar revenue versus what they had included
24 in the forecast when they established domestic rates, so
25 you've got it.

1 Now, if forecasting of export revenues was
2 closer to actual, as one would expect for most costs and
3 most revenues in a utility in a cost of service
4 environment, the red line that you see there would rather
5 hover just above or below, to your point, Mr. -- Mr.
6 Mayer, would just hover above or below the zero line.

7 Just over the period 2001 to 2009, the net
8 positive export variance, i.e., the cumulative over the
9 period which you see before you, was 441 million. That
10 means that export revenues were under forecast by 441
11 million during that period.

12 Let's contrast the export revenue
13 variances with domestic revenue variances. You can see
14 by the green line in this slide that the actual domestic
15 revenue is much closer to forecast. The variances are
16 much smaller for domestic revenue than they are for
17 export revenue.

18 The average variance for domestic revenue
19 is under 3 percent for this period. The level of the
20 variance is not only more desirable, but it's what one
21 would expect for forecasting in a cost of service
22 environment, particularly for a mature utility.

23 Export revenue forecasting, as we saw in
24 the previous slide and on this one, is 22 percent off the
25 mark versus 3 percent off the mark for -- for domestic.

1 The point is, Mr. Chairman, prospective rate making and
2 the cost of service model relies on reasonable forecasts.

3 In regulated utilities when forecasts are
4 not within close proximity of actuals, regulators have
5 access to and do use tools to deal with such wide
6 variances. One (1) such tool is an RSM. In this slide
7 we compare the export revenue variances that you've se --
8 seen in the previous two (2) slides, the red line, to
9 refunds that might be generated under an illustrative
10 example for a recommended RSM, and that's the blue line.

11 And this is a graph that was taken
12 directly from a response to an -- an IR. Pardon me. And
13 the wide export variances on the red line, the RSM takes
14 those wide variances and the RSM represented by the blue
15 line and delivers to the ratepayer the amounts of those
16 variances that are smoothed out over time, and the
17 smoothing dulls the one (1) year spike, for example, of
18 the drought year such that the refund situation remains
19 in place throughout the period.

20 So you can see what precipitated the
21 recommended RSM. And those are the wide export
22 variances. Having addressed the forecasts, the variances
23 and the RSM tool, let's now turn to the fundamentals
24 underlying the evidence.

25 In respect of the first component of the

1 four (4) that I intended to address in my evidence, the
2 domestic ratepayers, let's move to who are the domestic
3 ratepayers. Let's consider the overall role they play.
4 We will turn to their role, why their role is relevant to
5 RSM evidence and we will move on to how RSM can assist
6 the Board.

7 As promised, let's examine electricity
8 ratepayers in Manitoba. As you know, Manitoba Hydro is a
9 Crown corporation, and is a ubiquitous monopoly service
10 provider across the Province.

11 Manitoba residents are generally domestic
12 ratepayers. For Manitoba Hydro the shareholders, the
13 Province of Manitoba, which in turn is answerable to the
14 residents, generally speaking the taxpayer public, and
15 the ultimate owners are the shareholder, or share -- yes.

16 Un -- as such, the shareholders and the
17 domestic ratepayers are essentially the same group. For
18 the purpose of this evidence it is assumed that the two
19 (2) are essentially the same group. And the public
20 domestic customer owners are referred to in this evidence
21 as the domestic ratepayers. In reviewing the record I
22 found that Doctors Kursi -- Kubursi and Magee appear to
23 hold a similar view.

24 And until rebuttal evidence I had not
25 previously observed Manitoba Hydro's declaration of

1 ratepayer risk, but now I see that Manitoba Hydro has
2 agreed with this view. And together with Doctors Kubursi
3 and Magee it would appear there would be some consensus
4 on that point. If during our discussions I default to
5 the term simply ratepayer, I'm intending to indicate
6 domestic ratepayer.

7 If we examine in terms of who bears the
8 risks, Mr. Chairman, if we examine an investor owned
9 utility, an IOU, the at-risk parties are the
10 shareholders. If the investor owned utility should fail
11 to meet its financial expectations, essentially for
12 whatever reason, the shareholders are at risk for
13 suffering diminished value to their holdings in that
14 company.

15 As noted in the previous slide, for
16 Manitoba Hydro the shareholder is the province of
17 Manitoba, which in turn is answerable to the residents,
18 generally speaking, the resident taxpayer public and the
19 -- are the -- and the ultimate owners are the
20 shareholders. And as such, should Manitoba Hydro fail to
21 meet it's financial expectations, the resident ratepayers
22 of Manitoba are the at-risk parties.

23 Having defined the domestic ratepayer as
24 the domestic customer owners who bear the residual rights
25 and obligations, the key regulatory issue in this

1 context, sir, is that domestic ratepayers essentially
2 bear all of the risks of Manitoba Hydro's operations and
3 financial consequences -- consequences of those risks.

4 I intend to briefly discuss two (2) key
5 principles of risk and reward. First, symmetry of risk
6 in reference to both the downside risk and the upside
7 risk. Second, I intend to address the investor
8 perspective, a fundamental relationship of risk and
9 rewards.

10 Manitob -- Manitoba Hydro forecasts, as we
11 discussed earlier, play a large role in the risk and
12 reward scenario for domestic customer ratepayers. My
13 evidence define the downside and the upside risk.

14 The downside risk is that possible single-
15 event outcomes with lower worth than expectation, and
16 that's the key, Mr. Chairman, lower worth than
17 expectation. The upside risk, conversely, is the
18 possible single-event outcomes with higher worth than
19 expectation.

20 As my former stats and econometrics
21 professors used to say, in an economic or statistical
22 measurement a risk is a variation around the mean or,
23 alternatively, in the context of a distribution of
24 possible outcomes, the spread of actual outcomes around
25 the expected outcome, as measured by the variance of the

1 standard deviation. Therefore, in both -- in the context
2 of both the upside and the downside risk the spread in a
3 distribution is both above and below the mean average of
4 the distribution.

5 To date the record of this proceeding
6 appears to have been dominated by the concern for those
7 items below the mean, such as the risks that might
8 adversely affect net income or net revenue, and those are
9 things like drought and reduced export demand.

10 Generally the fundamentals of risk can be
11 captured in terms of both negative and positive outcomes.
12 While I don't want to ignore the downside risk, I'm
13 hoping to shine the light of context on the upside risk
14 in this hearing.

15 In the case of Manitoba Hydro, the
16 converse of lower than expected revenues is higher than
17 expected revenues. And again, that's the variance
18 between the expected and the actual results.

19

20 CONTINUED BY MR. BYRON WILLIAMS:

21 MR. BYRON WILLIAMS: Mr. Matwichuk, if I
22 could just stop you here for a moment.

23 Certainly from a ratepayer expected --
24 perspective one can understand why they might care about
25 lower than expected revenues. Speaking exclusively from

1 a ratepayer perspective, how can a -- why -- why, if at
2 all, would a ratepayer be concerned about higher than
3 expected revenues driven by variances from export
4 forecasts?

5 MR. GREG MATWICHUK: Well, I'm about to
6 launch into that Mr. -- Mr. Williams.

7 MR. BYRON WILLIAMS: Clever segue?

8 MR. GREG MATWICHUK: Yeah. But broadly
9 speaking you will see that ratepayers have an interest
10 because of the risks that they bear on the downside risk.

11 And as we observed in the graphs near the
12 outset, history appears to show greater volatility from
13 forecast in export revenue than it does from domestic
14 revenue. We've also observed that export revenue
15 variances have been more positive than negative and
16 that's in line with the common expectation in this
17 proceeding that there will be a drought approximately
18 once every ten (10) years.

19 Now, let's speak about risk in a
20 regulatory context. Generally, risk can be framed that
21 the outcome will be different than expected. In the
22 regulatory context the risk is that the actual result
23 will be different from that amount forecast for the
24 purpose -- that was used for the purpose of setting
25 domestic rates. Domestic rates are set to be -- are

1 intended to be set based on what is reasonably expected,
2 and we -- we saw that on the green line with respect to
3 domestic revenue, that's it's fairly close to what was
4 expected.

5 A risk to Manitoba Hydro domestic
6 ratepayers is that the actual avenue -- revenue will be
7 greater or lower than what domestic rates are forecast to
8 generate. If the actual domestic revenue is less than
9 forecast then domestic rates were too low. If the actual
10 domestic revenue is greater than forecast then the
11 domestic rates were too high.

12 While actual amounts can and do differ
13 from forecast for a variety of reasons, and the im --
14 impact all costs and revenues, the evidence is focussed
15 on revenue variances, and more specifically export
16 revenue variances. So with higher earnings in -- this is
17 getting back to your question, Mr. Williams, it
18 represents a lost opportunity through transparency and --
19 an explicit refund. A subsequent rate increase should be
20 a bit lower so that a citizen ratepayer has the money in
21 his jeans so that he or she can, for example, purchase a
22 bus pass rather than find alternative transportation.

23 While not attempting to be comprehensive,
24 some examples of downside risk include water levels,
25 export demand, or export prices that are lower than

1 expected, and import prices that are higher than
2 expected, or a combination of those. Conversely, some
3 examples of upside risk or opportunity include water
4 levels, export demand, and export prices that are higher
5 than expected, and import prices that are lower than
6 expected, and, again, with a potential combination of
7 those.

8 Currently, if domestic rates end up being
9 too low, Manitoba Hydro might return to the regulator and
10 cres -- request higher domestic rates in the name of
11 improving its equity position. So, under current
12 circumstances, following a sharp or precipitous decline
13 in export revenues, ratepayers may be relatively
14 confident that a rate increase is coming, but in
15 contrast, given the sudden rise in export revenues,
16 ratepayers likely won't have the same level of confidence
17 of a rate decrease.

18 If domestic rates end up being too high,
19 Manitoba Hydro could, using its own discretion, employ
20 the additional equity from higher domestic rates to incur
21 costs -- or to make use of that newly found equity, or
22 simply bank it, so to speak. That level of discretion is
23 asymmetrical, and that's part of the issue, Mr. Chairman,
24 and it's squarely the concern regarding the potential for
25 misaligned risk tolerances articulated by Doctors Kubursi

1 and Magee.

2 My evidence discusses how the RSM
3 mechanism can overcome that potential, and for the
4 potential for Manitoba Hydro to unilaterally exercise its
5 discretion on enhanced equity.

6 As the second of the two (2) fundamentals
7 of risk I noted on an earlier slide, I simply wanted to
8 make mention of the investor perspective. And it's very
9 simple and very fundamental, Mr. Chairman: An investor
10 who bears a risk should see a clear and explicit
11 opportunity of return. An investor who bears a risk
12 should see a clear and explicit opportunity for a return.

13 With the foregoing as a backdrop, there
14 are four (4) summary findings with respect to the
15 recommended RSM. First, domestic ratepayers essentially
16 bear all the risks of Manitoba Hydro's operations and
17 financial consequences of risks of actual export revenues
18 less than forecast. Domestic ratepayers are entitled to
19 an explicit reward for the risks they bear when export
20 revenue is greater than forecast. This finding is
21 consistent with the principle that any investor has to
22 bear -- who has to bear a risk should see a clear and
23 explicit opportunity for return.

24 Thirdly, Mr. Chairman, domestic ratepayers
25 have not explicitly benefited through rates from rewards

1 of export revenue risks they bear. In response to
2 bearing that risk, ratepayers should receive the benefits
3 that accrue from actual ex -- net export revenue
4 exceeding forecast. And, finally, Mr. Chairman, a rate
5 stabilization mechanism would allow domestic ratepayers
6 to explicitly benefit from the risks that they bear.

7 So, if I may, I would like to turn to the
8 logic for an RSM, and to do that, I would like to address
9 it from the following perspective. First, we need to
10 address how domestic rates are established for Manitoba
11 Hydro. Second, we should consider how actual events
12 unfold relative to forecast. And, third, we'll consider
13 where revenue volatility exists and where it manifests.

14 So far -- so, first, Mr. Chairman, how,
15 generally speaking, are domestic rates determined in this
16 jurisdiction? Well, we start with a formalized mechanism
17 which we all know and are very familiar with, is the
18 revenue requirement, or the cost of service. It's a
19 forecast of costs and a very formalized mechanism.

20 Second, there's another formalized
21 mechanism which is known as the prospective cost of
22 service study, or the PCOSS, and this where costs from
23 the total revenue requirement are shared by rate class,
24 and there is a cost reduction from the assumed and --
25 i.e., the forecast net export revenues. And then, from

1 there, we proceed to another mechanism that is the rate
2 design exercise.

3 Manitoba Hydro's mandate requires adequate
4 power to meet the needs of domestic ratepayers. Cost of
5 capacity above that need is placed at risk in a
6 competitive export market, and that risk is born by
7 domestic ratepayers. Manitoba Hydro is not simply
8 permitted to use its own discretion in setting its own
9 cost of service, it's own cost allocation -- allocation or its
10 rate design.

11 They come before you, Mr. Chairman, where
12 the revenue requirement, cost allocation, and rate
13 setting mechanisms are both formalized and transparent.
14 Now, I understand that the forecast revenues are based on
15 -- the forecast export revenues are based on median water
16 flows. That is the current standard.

17 Given that domestic ratepayers essentially
18 bear all the risks, ratepayers bear the financial
19 consequences of forecast error associated with export
20 revenue. Forecast export revenues are determined by for
21 -- export revenues after deduction of specifically
22 assigned and allocated costs, and this is part of the
23 prospective cost of service study we were mentioning
24 earlier.

25 We recognize that ratepayers do have some

1 benefit from forecast amounts of export revues, but there
2 are no explicit benefits to domestic ratepayers for
3 export revenues greater than forecast. There are
4 explicit and immediate mechanisms to determine domestic
5 rates through revenue requirement and the PCOSS. That
6 includes forecast export revenue but no explicit and
7 immediate mechanism to determine benefits to domestic
8 ratepayers for export revenues greater than forecast.

9 As we'll discuss later, the RSM offers
10 that mechanism. In comparing actual and forecast of
11 export revenues, inevitably actual revenues will be
12 greater or lesser than forecast.

13 Although not possible, but conceptually,
14 Mr. Chairman, if you can imagine, if you will, if one had
15 perfect foresight, forecasts would be the actual results
16 and domestic rates would collect the actual amounts. But
17 as we all know, there is no perfect foresight in utility
18 forecasting.

19 But indulge me for a moment, Mr. Chairman.
20 Conceptually, conceptually only, if for forecast -- if
21 for export revenue forecasts equalled actuals, what we
22 experienced during the last decade, ratepayer rates would
23 have been lower with the perfect foresight, if we had
24 forecasts that were used in determining rates that were
25 the actual amounts.

1 THE CHAIRPERSON: Have you taken into
2 account the various financial tests that have been
3 applied and accepted with respect to Manitoba Hydro?

4 MR. GREG MATWICHUK: Yes, sir. What the
5 -- simply what this means is we would have had higher
6 amounts for export revenue to offset the revenue
7 requirement because it's just a matter of a forecasting
8 exercise, are we close or are we -- are we far away.

9 And this evidence just simply states that
10 forecasting export revenues is extremely difficult, and
11 we recognize that. It's not saying Manitoba Hydro is not
12 doing its best in its forecasting. It's just suggesting
13 this is the nature of the beast, that there are wide
14 variances. And because of those wide variances, this is
15 an opportunity to look at a specific mechanism.

16

17 CONTINUED BY MR. BYRON WILLIAMS:

18 MR. BYRON WILLIAMS: Mr. Matwichuk, just
19 to follow up on the Chairman's question if I interpreted
20 it correctly, and I just -- he'll correct me if I'm not.
21 Can't it be argued that positive export variances from
22 forecast have enabled the Corporation to buy down or to -
23 - excuse me, to increase its retained earnings, have less
24 debt, and -- and less financial -- financing costs, debt
25 financing costs?

1 MR. GREG MATWICHUK: I think, Mi -- Mr.
2 Williams, what you're getting at is that it has allowed
3 Manitoba Hydro to move towards its target of debt-equity.
4 Is that...

5 MR. BYRON WILLIAMS: Yes, and I -- I'm
6 suspecting the Chairman might have been getting at that
7 point as well.

8 MR. GREG MATWICHUK: yes. And, again,
9 this is something that I'll be addressing shortly. But
10 essentially, Mr. Williams and -- and Mr. Chairman, that
11 the issue of debt-equity is that if that is a target that
12 the Board wishes to continue with, it can help, but then
13 it gives rise to many other issues including
14 intergenerational equity and intergenerational inequity.

15 MR. BYRON WILLIAMS: Mr. Matwichuk, I'm
16 going to -- I don't want to interrupt your flow too much,
17 but ultimately there is -- if -- if the Corporation has
18 certain financial targets, which the Board, for rate
19 setting purposes, wants to en -- endorse, is there any
20 reason why your RSM mechanism cannot work with them?

21 MR. GREG MATWICHUK: And again, Mr.
22 Williams, thank you for that, and -- and we -- we will
23 get to that in this presentation, but given your
24 question, the -- the answer is clearly yes. And, Mr.
25 Chairman, this -- this RSM mechanism can work whether

1 there is a target or not. And you will see -- we'll go -
2 - we'll walk through the mechanics so -- in order to
3 demonstrate that.

4 MR. BYRON WILLIAMS: And I apologize for
5 the interruptions.

6 MR. GREG MATWICHUK: No. Thank you, Mr.
7 Williams. But getting back to export -- actual exports
8 and forecast exports, if we had the perfect foresight, if
9 actual rev -- export revenue is greater than forecast,
10 then domestic rates were too high. If actual revenue is
11 lower than forecast then domestic rates were too low.

12 It -- it's the same principle that applies
13 with the domestic revenue. Now we turn our conceptual
14 minds to historical empirical data. When we look over
15 the past decade, actual export revenues actually were
16 materially greater than forecast export revenues. So
17 there was a significant forecasting error in export
18 revenue. And again, I'm -- I'm not attempting to draw
19 out fault of Manitoba Hydro. It's just the simple fact.
20 As we saw, the forecasting error was much less on
21 domestic revenue. So this is not a pejorative term, it's
22 just simply a reflection of the facts.

23 With that history in mind, and with the
24 perfect foresight, assuming that we had it, if the
25 forecast revenues matched the actual export revenues,

1 then domestic rates would have been lower than they have
2 been.

3 The point is, Mr. Chairman, with better
4 expert forecasts domestic rates would have been offset by
5 higher forecasts of export revenues than those that were
6 historically included in rates, particularly over the
7 past decade.

8 Given that dom -- domestic ratepayers bear
9 the risks of Manitoba Hydro decisions, operations and
10 actions, i.e., domestic ratepayers are the at-risk
11 parties, domestic ratepayers bear all the financial
12 consequences of risk that the actual export revenues will
13 vary from forecast export revenues. So domestic
14 ratepayers bear that risk.

15 We can recall the adverse water conditions
16 of 2004 and the export losses were followed by a Manitoba
17 Hydro requested rate increase to supplement fallen
18 retained earnings, i.e., the rate increase when actual
19 export revenue was below forecast. This is an example
20 where the domestic ratepayer was experiencing and
21 realizing the financial consequences of downside risk.
22 Earlier we discussed the risk has both downside, i.e.,
23 the lower water levels, for example, and the upside,
24 higher water levels.

25 Ratepayers who bear the financial

1 consequences of risk are entitled to rewards on the
2 upside. Just as Manitoba Hydro advanced applications for
3 rate increases when export revenues were lower than
4 forecasts, i.e., lower amounts in existing rates due to
5 low water conditions, symmetry of risk and reward suggest
6 that domestic ratepayers should similarly benefit when
7 actual export revenue is above forecast.

8 And to put it in more -- in simple terms,
9 an increased bill in the face of bad times suggests a
10 decreased bill as a result of good times. Based on the
11 history, the capital, the expenditures, the operations
12 and so on, it is fair to say that there appears to be a
13 general commitment in Manitoba Hydro to exporting power.
14 Assuming a general commitment to exporting power it is
15 essential to understand how domestic ratepayers are
16 involved and ensure they are impacted appropriately.

17 If the goal of participating in export
18 power is to provide benefits to domestic ratepayers there
19 should be an explicit and transparent mechanism where one
20 can observe, directly identify the benefits, quantify
21 them, ensure -- and ensure that they are explic --
22 explicitly delivered to domestic ratepayers.

23 MR. BYRON WILLIAMS: Mr. Matwichuk, just
24 to stop you for a second. Doesn't the cost of service
25 study do that for forecast revenues?

1 MR. GREG MATWICHUK: And just to
2 summarize the previous slides, Mr. Williams,
3 unfortunately it does not because the cost of service
4 study provides its best forecast of both domestic revenue
5 and export revenue, as well as all the costs. And while
6 the domestic revenue is -- is fairly close to forecast,
7 the export is not and therefore this wide divergence does
8 not have a direct accounting to what the ratepayers are
9 entitled to.

10 MR. BYRON WILLIAMS: So it's the
11 variances from forecasts that you're saying are not
12 accounted for?

13 MR. GREG MATWICHUK: That's correct.
14 Currently, Manitoba Hydro does not make
15 use of an explicit, immediate, and formalized regulatory
16 mechanism to adjust domestic bills when the actual amount
17 of export revenue differs from forecast. And the
18 forecast you'll recall, Mr. Chairman, is what was used to
19 establish domestic rates. Therefore, there is no
20 explicit benefit to domestic ratepayers from better than
21 expected or forecast export revenue.

22 Now having spoken of the risks, who bears
23 them, the benefits, and the absence of a formalized
24 mechanism to pass them on to ratepayers, those who bear
25 the risks, I will now turn to a brief discussion of the

1 volatility of export revenues.

2 The volatility of export revenues is
3 manifest through net income. It's been reported in this
4 proceeding, and I quote:

5 "The primary source of net income
6 variability relates to the substantial
7 level of hydrology risk that is present
8 in Manitoba Hydro's operations."

9 And that comes directly out of the
10 National Bank financial report.

11 Secondly -- and again, I'm quoting:

12 "Manitoba Hydro has a very large
13 position in power exports. As such,
14 earnings derived from electricity
15 exports are one of the most critical
16 factors influencing corporate financial
17 performance."

18 And that, Mr. Chairman, comes out of the
19 ICF report.

20 In the period 2005 to 2010 cumulative
21 actual net income of 1.44 billion was greater than the
22 cumulative forecast net income of 663 million. So the
23 difference, the variance there was 777 million, so over
24 that period net income was 117 percent greater than
25 forecast.

1 MR. BYRON WILLIAMS: And you're speaking
2 of export revenues in the -- in that context, sir?

3 MR. GREG MATWICHUK: I'm -- yes, but I'm
4 speaking of where it's manifest, and that it's manifest
5 in net income. And I'm -- so the -- the variance that
6 I'm talking about there, Mr. Williams, is strictly
7 related to net income.

8 From 2001 to 2009 actual export revenue
9 exceed forecast export revenue by 441 million. In my
10 evidence I noted that consistently underestimated net
11 income was a significant regulatory issue for Manitoba
12 Public Insurance. And -- and I believe that was in
13 proceedings, both in 2001 and 2010. The underforecast
14 net income suggests that GRA's have either overstated
15 costs or understated revenues, or both.

16 In my analysis and in my evidence the
17 export revenue is a significant component of that
18 variance and that suggests material amounts were not
19 included in forecasts for -- to offset domestic rates and
20 therefore domestic rates were essentially too high.

21 Now I recognize the difficulty in
22 forecasting water levels and the resulting variances
23 between forecasts and actual results. There is no
24 question, but it does lead one to question the long-term
25 forecasts, say, beyond 2012 and 2013. They may not be

1 very reliable, and promises of lower rates or lower pace
2 of rate increases ten (10) to twenty (20) years from now.
3 I would suggest that those need to be examined with a
4 healthy degree of scepticism.

5 Variability of water flows may have
6 greater financial consequences with expansion: greater
7 capital, greater interests costs, greater exposure to
8 ratepayers. The concern is elevated by problems with
9 experience of short -- shorter-term forecasts. Expansion
10 means more debt, more debt means more risk to the
11 domestic ratepayers.

12 If we're not forecasting export revenues
13 with the same reliability of -- that we are with domestic
14 revenues, then with longer-term hori -- time horizons
15 and, therefore, more uncertainty, brings into serious
16 question the reliability of long-term forecasts.

17 Domestic ratepayers do not currently have
18 an explicit, formalized mechanism to obtain rewards of
19 Manitoba Hydro risk taking. More immediately, a rate
20 stabilization mechanism can assist with handling those
21 variances resulting from risk taking.

22 I'd now like to turn to a discussion more
23 directed at the RSM itself. In the context of Manitoba
24 Hydro and its ratepayers, a rate stabilization mechanism
25 provides a formal, explicit and immediate mechanism to

1 allocate benefits and costs to ratepayers when actual
2 revenues vary from forecasts, whether that's up or down.

3 The Manitoba Hydro circumstances lend
4 themselves to an RSM. There are significant variances
5 from forecasts, observed volatility in export revenue,
6 and we have forecasts that are subject to known
7 contingencies, but with uncertain timing and impact. So
8 we -- we understand the contingencies we face, but we
9 have great uncertainty with respect to the timing and
10 impact of those.

11 Another way to look at -- at this is from
12 the perspective of the National Energy Board, and they
13 have established criteria for setting up a deferral
14 account, and they have three (3) criteria. The first is
15 absence of control -- that is, the level of a cost of
16 revenue is outside of management's control. Well, export
17 revenue is subject to a host a uncontrollable factors:
18 water levels, level of demand in the export market, level
19 of prices.

20 The third (sic) criterion is the inability
21 to reasonably forecast. The question is: Is management
22 unable to reasonably forecast the level of costs or
23 revenues?

24 MR. BYRON WILLIAMS: Mr. Matwichuk, did I
25 miss the second criteria?

1 MR. GREG MATWICHUK: I'm at the second
2 criterion.

3 MR. BYRON WILLIAMS: Okay.

4 MR. GREG MATWICHUK: It's the inability
5 to reasonably forecast, and -- and we'll see -- I'm
6 returning to this slide, Mr. Chairman, just to
7 demonstrate again that domestic revenue, represented by
8 the green line, there's a reasonable opportun -- a
9 reasonable ability to forecast it. But with respect to
10 the fore -- forecasting of export revenues, that is a
11 more difficult exercise.

12 And the third criterion that the NEB has
13 is -- is materiality: Are the balances likely to be
14 material? And, Mr. Chairman, there's just no question.
15 In respect of export revenue, we're dealing with tens and
16 perhaps hundreds of millions of dollars.

17 An RSM would direct the significant
18 returns from exports, where there are export revenue
19 variances, to domestic ratepayers who bear the risks
20 associated with exports.

21 So now I'd like to turn to retained
22 earnings, and -- and Mr. Williams helped -- helped me
23 understand that retained earnings may be an important
24 issue. Now, it suggests that -- Manitoba Hydro suggests
25 that retained earnings is able to deal with forecast

1 variances, and I'm going to suggest to you, Mr. Chairman,
2 that retained earnings is not an appropriate vehicle to
3 deal with significant variances in actual exports from
4 those forecasts used in a rate setting format.

5 Rate retained earnings is simply an
6 historical accounting of cumulative net income, which is
7 a mix of many factors. And as we know, it's not a cash
8 balance that can be accessed, rather it's an amount
9 supported by other things, and -- and particularly with
10 respect to Manitoba Hydro, largely by capital investment
11 in its infrastructure. It's not accessible liquidity.
12 It's not supported by liquid instruments, such as GIC's.
13 Rather it's supported by mortar and wires and other such.

14 It's an accounting creation, but it's an
15 accounting creation that was not designed -- not
16 originally intended for domestic ratepayer protection, so
17 it wasn't designed for that.

18 It does not appear that rate retained
19 earnings have been used to provide a level of certainty
20 associated with explicit ratepayer protection. Certainly
21 that would provide transparency of export revenues. And,
22 again, I return to the issue of transparency we obs --
23 where we could observe and identify and return it to the
24 ratepayer.

25 Now I'd like to turn to how the RSM

1 functions. When the actual export revenue is greater
2 than forecast there would be a refund to ratepayers.
3 When actual export revenue is lower than forecast there
4 would be a recovery from ratepayers. And those
5 differences are amortized over a reasonable period, say
6 five (5) years, to help promote attributing the
7 differences to the ratepayer who paid for the service
8 together with the smoothing of the individual impacts.

9 Now, Mr. Chairman, this slide is a -- is
10 directly from a response to an IR from the PUB, and PUB
11 CAC/MSOS/Matwichuk-22, Attachment 1. I had to check that
12 small writing with my aging eyes. It shows the working
13 mechanics of an RSM, and, at the Board's request, uses
14 the data from Table 3 of my evidence.

15 And with your indulgence, I -- I recognize
16 there are a lot of numbers on this table, but I'd like to
17 take -- walk you through a few examples to greater
18 elucidate the mechanics. And -- sorry, I'm just
19 experiencing technical difficulties here.

20

21 (BRIEF PAUSE)

22

23 MR. GREG MATWICHUK: Bear with me. I'm
24 almost there. There we go.

25 MR. BYRON WILLIAMS: We're simply doing

1 this to build drama, Mr. Chairman.

2

3

(BRIEF PAUSE)

4

5

MR. BYRON WILLIAMS: Do you want me to
6 point, Mr. Matwhichuk?

7

MR. GREG MATWICHUK: No, it's okay. All
8 right. Yeah. This will be a very brief change of seats.
9 This will be a very brief change of seats. Mr. Chairman,
10 let's begin with 2001, and, again, this is data from the
11 Table 3 in my evidence which used the available data on
12 the record from 2001 to 2009, and it is a typical way of
13 demonstrating how a deferral account works.

14

15

16

17

18

19

So in the first year we begin with a zero
balance because nothing has happened. But in the first
year at line 2 there's a -- there's a variance, and this
was taken from the data from the record, that the actual
export revenue was in fact greater than forecast by 78
million.

20

21

22

23

24

25

So if we slip down to line 4, that was the
variance for the year, and, therefore, the balance of the
variance for the year before any amortization. Given
that we need to quantify -- identify and quantify these
in a particular year, we have to wait until the sub -- a
subsequent year to be able to amortize them.

1 So there is zero amortization at line 7.
2 And therefore, the balance at the end of year 1 is in
3 fact the same as the variance in the export revenue. So
4 the balance at the end of the year is the 78 million.
5 Which then, if you go back up to line 1 in 2002, ends up
6 being the opening balance for that year.

7 Then significantly in 2002 there is again
8 a positive variance, where actual export revenue exceeded
9 forecast export revenue of 197 million. Now together
10 with the prior years variance, they total at line 5 the
11 275 million.

12 And here we see our first amortization at
13 line 7. And that is taking the 78 million from the prior
14 year and amortizing it over five (5) years. And that's
15 why they're in that box together. You'll see the five
16 (5) years going across 2002 through 2006, the 16 million
17 is one fifth (1/5) essentially, of seventy-eight (78),
18 rounded. So that 16 million then goes to line 16 where
19 that is a refund to domestic ratepayers. And that 16
20 million then comes off the net balance at line 5 of 275
21 million to now be 259 million going forward.

22 So in 2003 we have that opening balance of
23 259 million at line 1. And then at line 3 in 2003 we
24 experienced where actual export revenues were -- was
25 indeed less than forecast export revenues, \$56 million.

1 So that 56 million is netted against the opening balance
2 to arrive at two (2) thou -- 203 million. Then we
3 proceed down to line 7 and we see the amortization is
4 continuing from the original year, 2001, and now we're
5 introducing amortization of the variance from 2002 going
6 forward of 39 million. You'll see it proceeds over five
7 (5) years.

8 And we work through the mechanics down and
9 the balance at the end of the -- or now the net refund is
10 a combination of two (2) amortizations, the sixteen (16)
11 and thirty-nine (39) to be 55 million. And the end of
12 the year we have a balance of 148 million.

13 We carry that forward up to line 1 again.
14 And 2004, which we all recognize, was a year of a drought
15 and forecast export revenue was not attained, and actuals
16 was much lower, and therefore we have to reflect, for
17 symmetry purposes, Mr. Chairman, that there was a
18 negative variance.

19 So down below again, lines 7 through 9 we
20 see the amortizations of prior years. And then
21 significantly you will note at the bottom the net refund
22 is still in place from the amortization mechanics. And
23 the balance at the end of the year has now turned
24 negative. But that negative balance, when it carried
25 forward in 2005 is offset by the positive export variance

1 that we experienced in 2005.

2 THE CHAIRPERSON: Sir, I -- just to help
3 you out, I -- we -- we certainly have your point and
4 understand exactly what you're doing.

5 MR. GREG MATWICHUK: Okay. Very good,
6 Mr. Chairman. Thank you.

7

8 CONTINUED BY MR. BYRON WILLIAMS:

9 MR. BYRON WILLIAMS: I have one (1)
10 question about this table, Mr. Matwichuk. Just -- and I
11 realize that this is an illustrative table responsive to
12 a -- a request by the PUB. If we -- you'll agree with me
13 if we look at the 2004 year, in addition to significant
14 variances from forecast -- negative variances from
15 forecast exports, there was also a negative variance in
16 terms of power purchase or im -- imports of power, you
17 recall that, sir?

18 MR. GREG MATWICHUK: Yes, that's correct.

19 MR. BYRON WILLIAMS: And that's not
20 displayed in this calculation you've presented here?

21 MR. GREG MATWICHUK: That -- that has not
22 been included in the calculation. But in my evidence,
23 Mr. Williams, and Mr. Chairman, my definition of net
24 export revenue ultimately to be used for this mechanism
25 does include the -- the netting of power purchases

1 because it's the definition from the prospective cost of
2 service study.

3 MR. BYRON WILLIAMS: Thank you.

4 MR. ROBERT MAYER: One (1) other --

5 MR. BYRON WILLIAMS: Thank you.

6 MR. ROBERT MAYER: -- one (1) other item
7 on that, sir. Where have you shown the 2003 unexpected
8 domestic revenue, which is clearly shown on your chart
9 and which I clearly remember granting to Manitoba Hydro
10 by way of two (2) interim unexpected rate increases.

11 MR. GREG MATWICHUK: Sorry, Sir, you're
12 talking about the unexpected revenue from domestic
13 revenue in 2003. And this -- this evidence has assumed,
14 sir, that for domestic revenue purposes that we don't
15 need a -- a mechanism for domestic revenue because over
16 time it seems to even out very close to the forecast.
17 Whereas for export revenue, we don't -- we're not seeing
18 that -- we're not seeing that measure of precision, if I
19 can put it that way.

20 Does that help you, Mr. Vice-Chairman?

21 Okay. Thank you.

22 So, what I'd like to turn to next, is
23 again, an illustrative example of what the -- the effect
24 might be on a monthly bill. So the monthly bill
25 hopefully is -- we'll keep it in a very simple example of

1 the basic charge of six eighty-five (685) -- six dollars
2 and eighty-five cents (\$6.85), the energy charge assuming
3 consumption of a thousand kilowatt hours and -- and
4 again, I'm -- I'm thinking of a residential bill here,
5 Mr. Chairman. A thousand kilowatt hours at a rate of six
6 dollars and sixty -- or sorry, six point six-two (6.62)
7 cents on top of the basic charge of six eighty-five
8 (6.85) would give us sixty-six dollars and twenty cents
9 (\$66.20) for -- for a current month total of seventy-
10 three dollars and five cents (\$73.05).

11 And then through the RSM there would be an
12 adjustment on the bill to be given a -- an appropriate
13 name, and I've just selected for this illustration an
14 "Export Revenue Normalization," and that would show
15 either a reduction or an increase, but typically as we've
16 seen from -- from the data on the previous slide it would
17 be a reduction. And the net -- it would show it then
18 therefore a net total monthly of sixty-eight-o-five
19 (68.05) after that reduction.

20 MR. BYRON WILLIAMS: Mr. Chairman, just
21 time-wise we're making actually better practice than --
22 better time that we -- we did yesterday, perhaps because
23 Mr. McCormick's not heckling as much as he did in our
24 practice run.

25 I wonder if -- if -- looking at the time

1 which is quarter to eleven (11), if the Board would --
2 would wish us to finish up this subject, which I -- I
3 think would take us another fifteen (15) or -- or so
4 minutes, or if the Board would like a break at this point
5 in time?

6 THE CHAIRPERSON: We'll -- he -- he
7 might as well continue.

8 MR. GREG MATWICHUK: Thank you, Mr.
9 Williams. Thank you, Mr. Chairman.

10 So I'd like to speak to the benefits and
11 support for the recommended RSM. And as you've heard me
12 say it is a formalized mechanism and it is a transparent
13 mechanism. As such, it provides an explicit link between
14 the variances from export revenues generated under
15 existing domestic rate assumptions and the risks borne by
16 the domestic ratepayers.

17 Further, in terms of benefits and support
18 for the -- for the RSM. And thirdly, in preference for
19 this model over a general reliance on retained earnings,
20 an RSM provides the transparency that would otherwise not
21 be available.

22 Fourth, it is a tool for the regulator
23 rather than an instrument for the company to engage in
24 activities within its discretion.

25 An RSM will ensure there is symmetry in

1 handling through domestic rates the fluctuations in
2 export revenues. That was fifth.

3 The sixth is it will remove the
4 discretion, potentially involving other priorities and
5 place it squarely where it belongs.

6 Seventh, an RSM can help all parties,
7 including the regulator, and it can avoid surcharges in
8 setting up the mechanism, unlike reserves which rely on
9 surcharges to get them going, Mr. Chairman, and it avoids
10 the surcharges that were suggested by Doctors Kubursi and
11 Magee.

12 Eighth, it is relatively straightforward
13 and administratively easy to implement.

14 And, finally, ninth, there is no
15 segregation of existing retained earnings in the
16 recommended RSM as in some RSM models, and, Mr. Chairman,
17 I'm sure you and the Vice-Chairman are familiar with
18 MPI's segregation.

19 I'm sorry, I have a couple of others I'd
20 like to address, is that there's no need to set a target
21 or manage the fund relative to the target. There's no
22 funding or additional financing required by the province,
23 and, Mr. Chairman, this is something that I -- I wish to
24 emphasize, and you'll see later in the presentation, is
25 that it's used in other jurisdictions.

1 So what are the outcomes of the RSM? In
2 the end, there is a matching of benefits with risks. The
3 recommended RSM uses the financial gains and losses from
4 events that were not forecast to ensure that the domestic
5 ratepayer is explicitly -- or the domestic ratepayer
6 explicitly receives the benefits of favourable events in
7 the same manner in -- as they bear losses from
8 unfavourable events.

9 A second outcome is smoothing. Financial
10 -- the financial gains and losses, i.e., the variances,
11 are amortized over five (5) years, so the rates are kept
12 relatively stable, and that you will see in the graph
13 that I presented, the comparison of the variances with
14 the line that represented the RSM result.

15 Third, it mitigates against the potential
16 for moral hazard. RSM mechanisms' simplicity and
17 transparency alleviates the need for Manitoba Hydro to
18 exercise discretion with respect to the use of financial
19 impacts of events where actual net export revenues are
20 greater or less than the forecast net export revenues.

21 THE CHAIRPERSON: Staying on moral hazard
22 again, maybe you could define it a little bit more
23 broadly.

24 MR. GREG MATWICHUK: Okay. Mr. Chairman,
25 there are a couple of perspectives on that. One is the

1 perspective that was advanced by Doctors Kubursi and
2 Magee, and -- and I noted that in my evidence. But, more
3 broadly, it refers to the potential for Manitoba Hydro to
4 undertake activities that may not be in the interest of
5 ratepayers, and that -- that's the more broad definition
6 of it.

7 THE CHAIRPERSON: In -- in short, you're
8 suggesting, for example, if -- if a -- if a plan was
9 undertaken that didn't work out as expected, there'd be a
10 continual reminder of that in the bills of the customers.

11 MR. GREG MATWICHUK: There would be, sir.
12 Now, Mr. Chairman, as I referred to
13 earlier, RSMs do currently exist. They can found in
14 regulated entities such as hydro-electric utilities,
15 water utilities, gas LDCs, otherwise known as local
16 distribution companies, and, as you're quite aware,
17 insurance companies. Examples that I -- some of the
18 examples that I referred to in my evidence was Gaz Metro,
19 which is a distribution compan -- gas company in -- in
20 Quebec, and that -- their mechanisms is very similar to
21 the one that I'm recommending in terms of their mechanism
22 is very much weather-related. Hotter and colder weather
23 can generate greater or less -- sorry, I should say
24 reverse, lesser or greater gas requirements, and their --
25 their -- they set up a -- an RSM specifically for that.

1 And the other exam -- one (1) of the other
2 examples I referred to was Seattle Li -- light -- City &
3 Light, which is a hydro-electric company, but they set up
4 a fund balance with -- with targets, and that's certainly
5 not the approach that I'm recommending.

6 THE CHAIRPERSON: Sir, I think we'll take
7 our break now before you go on to the targets. And just
8 for the benefit of those assembled, it's our tentative
9 plan to continue for how long it may take to work through
10 CAC/MSOS's witnesses today, the original direct and all
11 the cross-examination and the redirect.

12 So if we go by 4:30, so be it. So we'll
13 take the break now.

14

15 --- Upon recessing at 10:54 a.m.

16 --- Upon resuming at 11:15 a.m.

17

18 THE CHAIRPERSON: Okay, away we go. Mr.
19 Williams...?

20

21 CONTINUED BY MR. BYRON WILLIAMS:

22 MR. BYRON WILLIAMS: Yes, Mr. Matwichuk,
23 when we were last speaking I think you had our rapt
24 attention at page 52 of your PowerPoint presentation.

25 MR. GREG MATWICHUK: Thank you, Mr.

1 Williams and Mr. Chairman. I -- I will pick it up at
2 slide 52. And I'd like to discuss in brief certain
3 Manitoba Hydro financial targets and recognizing that
4 there are -- there is some history associated with --
5 with these targets, and those being retained earnings,
6 debt-equity ratio, and interest coverage ratio.

7 First, lest -- let's consider retained
8 earnings. Manitoba Hydro contends that the benefit of a
9 75:25 debt-equity ratio is to provide a level of equity
10 sufficient to withstand the financial impacts of risk,
11 such as severe drought, significant infrastructure
12 damage, loss of access to export markets, variability in
13 earnings during a period of system expansion, and other
14 adverse events, while alleviating the need for sudden
15 large compensating rate increases.

16 Mr. Chairman, what I have indicated in my
17 evidence is that retained earnings is really not a strong
18 indicator that an entity can withstand adversity.
19 Equity's not a pool of cash. And, as noted earlier, it's
20 an historical accounting of accumulation of net income.
21 And in the case of Manitoba Hydro, that is largely
22 invested in infrastructure capital, not liquid assets.

23 The distinction was aptly demonstrated
24 when businesses, more generally, who were flush with
25 earnings, i.e., retained earnings, but had compromised

1 cash flow sometimes were -- was the precursor to their
2 demise.

3 For example, in the US we are all familiar
4 with Enron, and in that case, had high retained earnings
5 but was unable to withstand the crunch that it bore at
6 the time. In Canada, Pacific Natural Gas, PNG, a
7 regulated gas utility, has bo -- had -- had relatively
8 high retained earnings but fell into financial
9 difficulty.

10 PNG, as the result of the loss of one (1)
11 or two (2) major industrial customers, their cashflow
12 dried up. Despite a healthy retained earnings, PNG was
13 unable to withstand adversity without significant rate
14 increases.

15 It's my understanding, Mr. Chairman, that
16 there's no statutory requirement for a retained earnings
17 level. Manitoba Hydro suggests retained earnings are in
18 effect internally-restricted form of self insurance and
19 rate stabilization.

20 I am unaware of any internal restriction
21 Manitoba -- Manitoba Hydro is open to allocate retained
22 earnings at its discretion. Based on the record, there
23 has been no reliable formal transparent mechanism to use
24 retained earnings as a vehicle to protect against rate
25 increases.

1 Manitoba Hydro's target for debt --

2 MR. ROBERT MAYER: Whoa, whoa, whoa,
3 whoa, whoa. There was another line on that -- on that
4 statement.

5 MR. GREG MATWICHUK: Pardon me.

6 MR. BYRON WILLIAMS: Mr. Vice-Chair might
7 be interested in that line.

8 MR. ROBERT MAYER: What's this about
9 province place on Manitoba Hydro at a higher risk when
10 legislates distribution of funds. What are we talking
11 about?

12 MR. GREG MATWICHUK: In 2003, Mr. Vice-
13 Chairman --

14 MR. ROBERT MAYER: There was a one (1)
15 time dividend legislated, that was it, at which, of
16 course, all of it was never carried through. Are you
17 suggesting that there's something in the works we don't
18 know about?

19 MR. GREG MATWICHUK: No, Mr. Chairman,
20 there's -- there's nothing in the works that you don't
21 know about. It -- it's something that was clearly
22 disclosed. And as you're referring to, was a one (1)
23 time element in legislation. And that was a \$200 million
24 distribution.

25

1 CONTINUED BY MR. BYRON WILLIAMS:

2 MR. BYRON WILLIAMS: Mr. -- Mr.
3 Matwichuk, just -- just -- it's on your slide, so the
4 Vice-Chair might appreciate what you -- I think a bit
5 more description of what you meant by the point there.
6 Not that I'm welcoming it, but we're trying to be
7 responsive to the...

8 MR. GREG MATWICHUK: Yes, Mr. Williams,
9 and -- and Mr. Vice-Chairman. The point is -- is simply
10 this, that if retained earnings was a measure of the
11 ability to withstand adversity, one has to wonder whether
12 the province would have put the Corporation in peril by
13 reducing the retained earnings by \$200 million and there
14 -- therefore the debt-equity ratio.

15 MR. BYRON WILLIAMS: And, Mr. Matwichuk,
16 just to finish up on the point and then we'll -- we'll
17 certainly let the Vice-Chair intervene, but I'm going to
18 help -- hope I get to the point first. Is your point
19 then that the fact that the province felt confident
20 enough to distribute funds, a suggestion that retained
21 earnings is not the be all/end all that -- that -- that
22 some may attribute to it?

23 MR. GREG MATWICHUK: Well, I certainly
24 wasn't privy to the legislation or -- or what -- more
25 specifically what led up to the legislation. But from

1 the appearance of what did take place is that the
2 province had the confidence in the Manitoba Hydro to be a
3 vibrant ongoing business even after the distribution of
4 \$200 million and its inherent impact on retained
5 earnings.

6 MR. ROBERT MAYER: The legislation is
7 tied directly to export profit. And if it didn't
8 materialize in that piece of which -- of it which didn't
9 materialize reduced the amount of money that was actually
10 intended to be distributed. It was tied directly to
11 export revenues at the time. I now understand that you
12 are referring, in fact, to the one (1) time piece of
13 legislation that -- which hasn't come around since?

14 MR. GREG MATWICHUK: Yes, that's right,
15 Mr. -- Mr. Vice-Chairman. It was simply that one (1)
16 time that the -- the Mani -- the province exercised its
17 entitlement as a shareholder, I might add.

18 MR. BYRON WILLIAMS: And, Mr. Vice-Chair,
19 I do apologize for interrupting your question. I was
20 just hoping to get Mr. Matwichuk to your point.

21 MR. GREG MATWICHUK: So turning to slide
22 55, the Manitoba Hydro's target, as I understand it was
23 75:25 and it has been that target for a number of years.

24 As I understand the record from this
25 current proceeding, and according the Manitoba Hydro, the

1 quote that I'm reading from is that:

2 "The target was revised to 75:25 except
3 during years of major investment in
4 generation and transmission system."

5 And that is -- close quote -- and was
6 apparently to accommodate a shift in management emphasis.

7 I'm not aware of any data --

8 MR. ROBERT MAYER: Mr. Matwichuk, that's
9 not exactly accurate. We've been told for years that the
10 debt-equity tar -- target did not include major new
11 generation that was always considered part of something
12 they were going to have to do.

13 MR. BYRON WILLIAMS: Mr. Chairman, Mr.
14 Vice-Chair, I think we may be confusing two (2) different
15 subjects. And with the -- for the purposes of clarity, I
16 think that you -- you may be referring to the target for
17 internally-generated capital.

18 Whereas -- I -- I'm going, you know -- and
19 certainly the record may correct me, but I'll suggest
20 that the debt-equity target and this exception to it was
21 brought in within the last two (2) or three (3) years,
22 that would be my -- my understanding, sir.

23 MR. ROBERT MAYER: You may be right.

24 MR. GREG MATWICHUK: And -- and Mr.
25 Chairman and Mr. Vice-Chairman, I was -- I was quoting

1 the record from Manitoba Hydro response to an IR.

2 THE CHAIRPERSON: Just continue, Mr.
3 Matwichuk.

4 MR. GREG MATWICHUK: Thank you, sir. I'm
5 not aware of any data on the record or outside
6 evidentiary record to find a meaningfully -- support a
7 particular debt-equity ratio for Manitoba Hydro

8 On slide 56, continuing on with the debt-
9 equity ratio, one might expect that if the market
10 considered -- and this is the capital markets, considered
11 debt-equity ration of such importance, the market would
12 also expect the debt guarantee fee to drop as a result of
13 an improved debt-equity ratio. We can observe that the
14 debt -- debt guarantee fee has not changed with an
15 improved debt-equity ratio.

16 Attractive financing rates for Manitoba
17 Hydro do not appear to depend on the achievement of
18 internal financial targets. Manitoba Hydro appears to be
19 voluntarily moving off the 75:25 to a debt-equity of
20 80:20 in the years to come. Yet, Manitoba Hydro
21 previously claimed that 80:20 diminishes its ability to
22 mitigate risks such as drought.

23 Now what I'm suggesting, Mr. Chairman, is
24 that I'm not observing any magic to any particular debt-
25 equity ratio. In a drought retained earnings is -- does

1 not appear to be a tool to deal with adversity. We're
2 looking for a tool to be able to recognize the need to
3 have the ability to borrow.

4 Now we acknowledge that debt and debt
5 costs are significant. And we need to look at what
6 influences the debt costs. Manitoba Hydro suggest that
7 debt-equity is important for determining its ratings from
8 credit rating agencies. Credit ratings, Mr. Chairman, as
9 you are probably well aware assess credit-worthiness.
10 And credit-worthiness is essentially whether the issuer
11 of debt has the capacity and the willingness to meet its
12 financial commitments as they come due.

13 So, the capacity to meet the financial
14 commitments as they come due. This is a very important
15 definition. Only 4 percent of Manitoba Hydro debt is not
16 issued by the province, the rest is issued and/or
17 guaranteed by the province for which Manitoba Hydro pays
18 a one hundred (100) basis point debt guarantee fee. The
19 Manitoba Hydro credit ratings, they are based primarily
20 on the relationship with the province, debt issued by the
21 province, and the debt guarantee. And this, in itself,
22 is acknowledged by both National Bank Financial and
23 Manitoba Hydro itself.

24 Another important aspect to the credit
25 ratings, Mr. Chairman, is that only the DBS -- DBRS

1 reports on Manitoba Hydro report on the long-term debt.
2 Both S&P and Moody's only report on Manitoba Hydro's
3 short-term debt.

4 So S&P and Moody's are not reporting on
5 the long-term credit-worthiness of Manitoba Hydro. So
6 when there is a reference to credit ratings in this
7 proceeding, we must be careful to understand that only
8 one (1) of the three (3) agencies is reporting on the
9 long-term creditworthiness of Manitoba Hydro.

10 If we may, let's -- let's turn to some
11 empirical data. The debt component of the debt-equity
12 ratio has varied significantly as -- by as much as 26
13 percent, and what I mean by that, that is to say that it
14 has been as high as 88 percent and as low as 73 percent,
15 i.e., the debt component. But credit ratings have not
16 been downgraded. They have not been downgraded during
17 that time, nor have the province's debt -- credit
18 ratings.

19 The -- the high of 88 percent was in 1997.
20 In 2002, the debt component was 77 percent. So that was
21 in 2002. After the 2004 drought, debt was back up to 87
22 percent. It would appear that there is very little or no
23 correlation between debt-equity ratio and credit ratings.
24 There does not appear to be a case for debt-equity being
25 a determinative factor in credit ratings.

1 I'd now like to turn to interest coverage
2 ratio.

3 THE CHAIRPERSON: Mr. Matwichuk, I'm
4 certainly not making an argument or anything of that
5 particular nature, but the -- there's been a lot put on
6 the record about the specific reports by the various
7 rating agencies, and they rely, of course, a lot on the --
8 -- the Crown itself, the province, but they do talk about
9 the evidence of the target of the 75:25 and indications
10 of rate increases in tough times and things like that.
11 So they do take into account the -- the ability, for
12 example, in the case of a monopoly, a regulated monopoly,
13 rate changes, so it's not like they don't -- it's not
14 like the -- the rating agencies do not comment on
15 Manitoba Hydro, because they do. They -- no, I'm saying
16 it's not that they do not -- it's a double negative.
17 They comment on Manitoba Hydro in the --

18 MR. GREG MATWICHUK: Yes, sir, they --
19 they do comment on Manitoba Hydro as an entity, and --
20 and in those comments, they make what I would call --
21 when I -- I've read those reports, going back probably a
22 decade, and when I read those parts -- reports, it is
23 more of a passing reference to a number of statistics
24 which include retained earnings, yes. They also include
25 things like cashflow, they also include things like

1 return on equity, but when you read the reports, very
2 much up front in the report, the primary reference is to
3 the relationship with the province and the -- and the
4 debt guarantee itself.

5 THE CHAIRPERSON: I'm not disagreeing
6 with you. In fact, I -- if anything else I drew out --
7 what I wanted to hear was the fact that you had -- you'd
8 read those reports.

9 MR. GREG MATWICHUK: Yes, sir, I have.
10 Thank you.

11 In terms of slide 60, interest coverage
12 ratio, Manitoba Hydro has been operating with a target of
13 one point two (1.2) times interest coverage. Now, I was
14 -- I'm unaware of evidence to quanti -- quantify that one
15 point two (1.2) times as a reasonable target, and I also
16 understand that there's no particular statutory
17 requirement for a target, nor a requirement for --
18 statutory requirement for over one point zero (1.0)
19 times. And I'm not suggesting necessarily that Manitoba
20 Hydro be restrained to one point zero (1.0) times, but I
21 do note, historically, actual interest coverages indicate
22 actual revenues based on domestic rates, collected
23 amounts greater than cost.

24 Interest coverages of slightly above one
25 point -o (1.0) times would provide some cushion or income

1 for a debt holder, but the guarantee fee does already
2 exist. So from a ratepayer perspective there is somewhat
3 of a redundancy in the protection there.

4 So turning to slide 61, financial targets
5 such as interest coverage and debt-equity do not appear
6 to be definitive in the credit ratings. And while, as
7 you mentioned, Mr. Chairman, they are mentioned in they -
8 - the -- the credit rating reports, they -- they are
9 mentioned with probably thirty (30) other statistics.
10 The primary criterion as I read those reports is the
11 relationship with the province.

12 I would now like to turn to the Manitoba
13 Hydro rebuttal and certain assertions contained therein.
14 The Manitoba Hydro rebuttal, as it relates to my
15 evidence, on the rebuttal pages 2 to 13, and this is with
16 all due respect, contains inaccuracies and perhaps some
17 inadvertent mi -- mis-characterizations.

18 And so, Mr. Chairman, I urge the Board in
19 their attempts to understand my evidence and anything
20 that I authored that they refer to the documents that I
21 authored, where those documents have extensive quotes,
22 not paraphrasing, and, likewise, extensive footnoting.
23 But I certainly welcome any questions.

24 Now, rather than responding to the
25 Manitoba Hydro rebuttal on a line-by-line basis, what

1 might be more productive is responding to a couple of
2 issues, but rest assured that simply not responding to
3 some of them does not -- is -- isn't intention --
4 intention to suggest that I agree, although I think I
5 already noted there -- there is one (1) matter on which
6 Manitoba Hydro and I agree.

7 I would like to address five (5) matters
8 addressing -- in -- in -- arising from the Manitoba Hydro
9 rebuttal, and those are reasons for an RSM, benefits from
10 an RSM, current uses of an RSM, RSM mechanics, and the
11 debt-equity ratio.

12 Manitoba Hydro suggests that an RSM is not
13 needed since the cost of service model and retained
14 earnings are working for ratepayers. And I believe, Mr.
15 Williams, this will help answer one (1) of your earlier
16 questions. So with respect, again, I disagree with
17 Manitoba Hydro's suggestion.

18 The cost of service model would work well
19 if Manitoba Hydro had more accurate forecasting of export
20 revenues. There is no question. Manitoba Hydro accuracy
21 of forecasting export revenues is on average, as we saw,
22 out by more than 22 percent over the years 2001 to 2009.

23 I'm not aware of another regulated entity
24 where actuals vary so significantly and continually from
25 forecast and there is simple reliance on cost of service

1 without the use of another tool.

2 RSMs, or more broadly, deferral accounts,
3 as I mentioned in the context of the National Energy
4 Board, are used when forecast accuracy is below that of
5 other costs or revenues. Mr. Chairman, you and your
6 colleagues have embarked on a comprehensive assessment of
7 risk in this proceeding. There appears to be consensus
8 that ratepayers bear the ultimate risk of Manitoba Hydro
9 actions and operations. Forecasts of export revenue are
10 a source of significant risk to ratepayers. An RSM
11 mechanism can ameliorate the ratepayer risks.

12 Now, a second item out of the Manitoba
13 Hydro rebuttal suggests that there are no additional
14 benefits of an RSM. And it may come as no surprise I
15 respectfully disagreed with that suggestion. I think if
16 one looks closely, the benefits to -- for the ratepayer
17 are greater than the current circumstances in relying on
18 retained earnings. As notice -- no -- noted, export
19 revenue forecasts are a source of ratepayer risk being
20 addressed here in this evidence.

21 The benefits of an RSM are many, and we
22 walked through a number of them on previous slides. And
23 just to reflect on those benefits, an RSM creates an
24 explicit link between export variances and the risk borne
25 by ratepayers. RSM is a formalized mechanism, just like

1 revenue requirement and prospective cost of service
2 study. RSM provides transparency versus what some may
3 refer to as a bit of a black box in the retained
4 earnings. The mechanism of an RSM is straight forward
5 and easy to understand and implement. The recommended
6 RSM involves no funding, nor targets are required.

7 Manitoba Hydro suggests in -- in their
8 rebuttal, that RSM and deferral accounts are, and to use
9 their term, "archaic", and quote, also, "not employed."
10 The facts show otherwise, Mr. Chairman.

11 As noted in my evidence in IR responses,
12 RSMs are used and they're used currently, and they're
13 used in a wide variety of utilities: in hydro electric,
14 in water, in gas distribution companies. They're real
15 life examples for each.

16 As we saw in a previous slide, had the RSM
17 been implemented in the first decade of the century, the
18 Manitoba Hydro experience would essentially have provided
19 refunds to ratepayers. One (1) other live example I'd
20 like to point to is that Newfoundland and Labrador Hydro
21 have a rate stabilization mechanism that it util --
22 utilizes.

23 On slide 67 I refer to a Manitoba Hydro
24 rebuttal that indicates that a RSM, quote:

25 "Will not serve to stabilize rates in

1 the event of a significant financial
2 loss."

3 And again, I would suggest to you that I
4 would disagree. And unfavourable export variance could
5 lead -- likely lead to a financial loss. I think we're
6 all on the same footing there.

7 Clearly that was the experience from the
8 2004 drought. The RSM would provide explicit
9 identification and quantification of the variance, and
10 then the variance would be amortized over a reasonable
11 period.

12 So, Mr. Chairman, as you've seen on the --
13 the table that we walked through, the amortization
14 smooths out the impact that the export vari -- that the
15 export variance from any a particular year would
16 otherwise have on a refund recovery in a subsequent year.
17 And, there is a direct transparency and accountability
18 for the precise amount of the variance. And that, I
19 would suggest, Mr. Chairman, is something that the
20 retained earnings does not offer.

21 So this slide is -- is to serve to remind
22 us that whereas wide fluctuations in export revenue
23 variances, the RSM transfers the benefits of those export
24 variances and the costs, and smooths the impact to
25 ratepayers and does so in a transparent manner.

1 Further in the Manitoba Hydro rebuttal,
2 Manitoba Hydro suggests that the more debt it takes on,
3 the more financial risk to it. We're all alive to the
4 issue that more debt means more interest costs. The real
5 question is with more investment and more debt, unless
6 the investment will take care of the extra debt, we may
7 be placing domestic ratepayers at too great of a risk.

8 So now I'd like to address the Manitoba
9 Hydro rebuttal, in light of the 2004 drought
10 specifically. So if we take a moment to examine the
11 impact of that drought, we note the following took place
12 in that year. In a year of a major drought, Mr.
13 Chairman, Manitoba Hydro had a finance expense of almost
14 \$500 million in 2004. That's almost half a billion
15 dollars in finance expense alone.

16 Clearly hundreds of millions of dollars of
17 interest payments were due in that year. And clearly,
18 those interest payments were met by Manitoba Hydro.
19 However, this was during a time when cash flow from --
20 from operations had literally dried up.

21 Despite everything, Manitoba Hydro had
22 additional boring -- borrowings to refinance debt and
23 fund new cash requirements. Manitoba Hydro was able to
24 raise over \$1 billion in new debt that year. Manitoba
25 Hydro was apparently able to make the interest payments

1 that were due in 2004.

2 So what was the outcome of this drought in
3 Manitoba Hydro's financials? Manitoba Hydro suffered its
4 worst loss in history, \$436 million. In 2002, the debt-
5 equity was 77:23, which is very close to what its target
6 is and very close to what it is today. After the drought
7 and the \$436 million loss debt-equity fell to 87:13 by
8 the end of fiscal 2004.

9 According to a subsequent credit rating by
10 DBRS, 2004 represented the weakest results in Manitoba
11 Hydro history and increased leverage -- leverage in 2004,
12 yet the credit ratings in 2004 were unchanged from 2003.
13 Moreover, the credit ratings in 2004, a high, were
14 actually slightly higher than those in 2002 which were
15 rated 'A'.

16 Mr. Chairman, there does not appear to be
17 a compromise in the borrowing power of either Manitoba
18 Hydro or its parent arising from the year of 2004 drought
19 where Manitoba Hydro suffered its weakest financial
20 results in history.

21 THE CHAIRPERSON: Sir, do you take into
22 account the fact that this Board provided a conditional
23 rate increase which should have amounted to 9 1/2
24 percent, which, fully implemented, in the end had a
25 present value -- doing this in my head, somewhere under

1 two (2) -- 2 billion?

2 MR. GREG MATWICHUK: And --

3 THE CHAIRPERSON: Prob -- would have had
4 presumably something to do with the support of the
5 position.

6 MR. GREG MATWICHUK: And that -- that
7 rate increase, sir, came after 2004?

8 THE CHAIRPERSON: Yes, it -- it came in
9 the light of the drought loss.

10 MR. GREG MATWICHUK: Yes, and I recall
11 that. And what I'm reflecting on, sir, is that in 2004,
12 while it was suffering the drought that it was able to
13 maintain its credit rating, was able to make its interest
14 payments, and was able to access debt in that year.

15 THE CHAIRPERSON: Thank you.

16 MR. GREG MATWICHUK: Now I'd like to turn
17 to a different topic, intergenerational equity. It is a
18 fundamental regulatory principle and I'm sure you've
19 heard about it during this proceeding, Mr. Chairman, and
20 other proceedings. As a principle it has implications on
21 debt-equity ratio debate. The recommended RSM is a
22 reliable mechanism that can -- can assist in preserving
23 intergenerational equity.

24 MR. BYRON WILLIAMS: Just one (1) second,
25 Mr. Matwichuk. Okay. Please proceed.

1 MR. GREG MATWICHUK: Intergenerational
2 equity --

3 MR. ROBERT MAYER: We were just --

4 MR. GREG MATWICHUK: -- sorry.

5 MR. ROBERT MAYER: -- we were just
6 attempting to resolve this, when they got the money,
7 because Mr. Matwichuk's chart shows it came in 2003.

8 MR. BYRON WILLIAMS: I -- Mr. -- I think
9 if memory serves me right, and I'll look to Mr. Peters
10 for confirmation, there might have been in August of 2004
11 the first iteration of that rate increase in the range of
12 five (5) -- 5 percent with --

13 THE CHAIRPERSON: And it was followed by
14 two (2), two and a quarter's (2 1/4).

15 MR. GREG MATWICHUK: Yes.

16 MR. BYRON WILLIAMS: Exactly. So I think
17 that's the -- I was going to intervene, and then I
18 thought we -- you had moved on, so.

19 MR. GREG MATWICHUK: Yeah. And I -- I
20 think the point that that followed fiscal 2004, I think
21 that's the issue, yeah.

22 THE CHAIRPERSON: Yes, it followed the
23 experience of the -- of the large net loss.

24 MR. GREG MATWICHUK: That's correct, sir,
25 yes.

1 Intergenerational equity has, and
2 continues to be, a fundamental principle of rate
3 regulation. Ratepayers in a given period should pay only
4 the costs necessary to provide them with service in that
5 period. Combined with the cost of service standard, this
6 principle requires that rates in each period should
7 recover the costs of providing service in that period.
8 It generally adheres to the notion that costs should be
9 borne by those who receive the service generating the
10 cost.

11 As discussed earlier, there doesn't appear
12 to be any positive correlation between debt-equity level
13 and the credit ratings provided for -- for Manitoba
14 Hydro. Manitoba Hydro's debt-equity ranged from 88:12 to
15 73:27 in the period 1997 to 2010, and, as we've
16 discussed, it does not appear to be a primary concern at
17 credit rating agencies.

18 Yet those who are ratepayers during the
19 drought are not necessarily those who provided for the
20 75:25 or those who would replenish the retained earnings
21 to resume the 75:25. A practical example for this point
22 of reference is that in a large infrastructure
23 organization like Manitoba Hydro and other utilities,
24 intergenerational equity is generally achieved through
25 the depreciation and interest charges over the life of an

1 asset. Ratepayers who benefit from the use of the
2 infrastructure pay the costs of the asset, the cost
3 allocated over the time that it is used.

4 In the case of equity, when equity is
5 built up, customers who pay for the build-up of that
6 equity do not have the assurance that the equity --
7 equity will be used for their benefit. Currently,
8 Manitoba Hydro is projecting, during the expected decade
9 of construction, that it will allow its debt-equity ratio
10 to shift to 79:21 by 2015, to 80:20 by 2016, and 81:19 by
11 2019, and not return to current levels until 2026.

12 Now, quite apart from the reliability of
13 such projections, the market and prolonged divergence
14 from its existing and long-sought-after 75:25 level has
15 implications on intergenerational equity. There's a
16 marked difference between the certainty of costs to
17 undertake a dec -- a decade of construction of a met --
18 mega-project and the level of uncertainty of the revenue
19 that may, or may not, be recovered from incurring those
20 costs.

21 A debt-equity ratio of 80:20 apparently
22 diminishes the Corporation's ability to mitigate such
23 risks as drought, and that's taken from Mani -- a
24 Manitoba Hydro quote. Based on Manitoba Hydro's
25 testimony and that of its experts, it's reasonable to

1 expect a drought during the period before 2026, and
2 perhaps before 2019. In the case of equity, when equity
3 is built up, customers who pay for the build-up of that
4 equity do not have the assurance that equity will be used
5 for their benefit.

6 In terms of intergenerational equity and
7 the RSM, the benefit is far more clear: Ratepayers
8 benefit in the period that is relatively close to the
9 period in which the costs were incurred. The RSM allows
10 for the disposition of the rate stabilization mechanism
11 balances over a reasonable period of time, so that
12 ratepayers who are responsible for the gains and losses
13 during that period will -- will be those who benefit or
14 bear the burden of those, respectively.

15 Mr. Chairman, those are my opening
16 comments in direct, and I thank you for the indulgence of
17 this Board, and thank you for your time, sir.

18 THE CHAIRPERSON: Thank you, sir.

19 MR. BYRON WILLIAMS: Mr. Chairman, just
20 noting the time, I wonder if it would be best to break
21 for lunch now and resume at 1:00, or even quarter to
22 1:00, and proceed with Mr. McCormick. I can indicate, in
23 our trial run, Mr. Matwichuk's doing a little better than
24 we -- we planned. Mr. McCormick's evidence will be
25 somewhat shorter, but it will not be brief, so I -- I

1 would expect it would take us meaningfully into the
2 afternoon.

3 THE CHAIRPERSON: Meaningfully into the
4 afternoon means -- means by 2:30?

5 MR. BYRON WILLIAMS: That would be
6 optimistic, sir, if we started at 1:00. I -- I think we
7 would -- it would be between 2:30 and 3:00.

8 THE CHAIRPERSON: Mr. Hacault, do you
9 know -- do you have any idea how long your cross of these
10 two (2) witnesses will be?

11 MR. ANTOINE HACAULT: Mr. Chair, I don't
12 think that my cross-examination of these two (2)
13 gentlemen would last longer than half an hour.

14 THE CHAIRPERSON: Okay. And Mr. Gange is
15 not appearing. Ms. Boyd, do you have any idea of how
16 long your cross would be?

17 MS. MARLA BOYD: It's difficult to say
18 without having heard all the evidence, but I'd suspect
19 about an hour, or thereabouts.

20 THE CHAIRPERSON: Okay, we may be going
21 past 4:30, but it sounds like it's all doable, so we'll
22 see you back at one o'clock.

23

24

(PANEL RETIRES)

25

1 --- Upon recessing at 11:54 a.m.

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

3

4 THE CHAIRPERSON: Okay. Welcome back.
5 We've scheduled for a presentation, basically another
6 MIPUG presentation.

7 Mr. Hacault, would you mind introducing
8 the representatives from Gerdau.

9 MR. ANTOINE HACAULT: Yes, Mr. Chairman,
10 it would be my pleasure. Seated -- seated to my
11 immediate left is Mr. Gavin Tobin, he's the vice-
12 president and plant manager of Gerdau in Manitoba. And
13 to my far left Mr. David Forsyth, the regional energy
14 manager.

15 And with that introduction I would invite
16 Mr. Forsyth to make his presentation to the Board.

17 THE CHAIRPERSON: Very good. And before
18 they begin I'll just point out that being circulated to
19 us an outline of the presentation, so we have that here
20 too.

21 So, sir, please.

22

23 PRESENTATION BY GERDAU:

24 MR. DAVID FORSYTH: Okay. Thank you.
25 Vice-Chair and Chair of the Board, thanks for allowing us

1 to present our comments of Gerdau to you today. I'm
2 David Forsyth as Antoine told you, the regional energy
3 manager responsible for Gerdau's Manitoba mill. And with
4 me is Gavin, the Vice-president and plant manager and we
5 can answer any questions you have after we're finished.

6 Please turn to the second slide. As you
7 probably read in the newspaper recently Gerdau is very
8 proud to be celebrating a hundred and ten (110) years in
9 business as of May 17th, 2011. We now have forty-five
10 thousand (45,000) employees in Canada, the US, twelve
11 other countries around the globe. Manitoba Mill started
12 production in 1907, some one hundred and four (104) years
13 ago.

14 It's important to note that Gerdau's size
15 means that more than one (1) facility can make the
16 products our customers need. Gerdau's financial model
17 looks at where these products can be produced and
18 delivered at the lowest cost. Energy is one (1) of our
19 key controllable costs and is therefore a very important
20 consideration in Gerdau's production and investment
21 decisions.

22 Next slide please. The Gerdau Manitoba
23 Mill: Gerdau's steel mill in Selkirk is one (1) of the
24 largest manufacturers in the province. We are one (1) of
25 the largest shippers in the region, averaging over one

1 hundred and fifty (150) truck loads and twenty-five (25)
2 rails -- rail cars per week.

3 In addition to over four hundred (400)
4 jobs at the Gerdau Manitoba Mill, Gerdau has also
5 attracted several large downstream manufacturers to the
6 province creating valuable manufacturing jobs at
7 Monteferro American, the Birds Hill and Steinbach
8 locations; TC Industries in Selkirk; Black Cat Blades,
9 also in Selkirk; Bradley Steel Processors in Winnipeg,
10 and Bucyrus Blades of Steinbach.

11 Including Gerdau Manitoba Metallics Raw
12 Materials, which is our scrap operations, seven hundred
13 and seventy (770) jobs and families are directly involved
14 with the plant. There are also many Winnipeg industries
15 that support Gerdau thereby creating a significant number
16 of collateral jobs. In fact, in 2010, Gerdau spent more
17 than 49 million with local suppliers and service
18 companies and utilized the equivalent of twenty (20)
19 full-time employees through local contractors.

20 Gerdau is the largest recycler in the
21 province, processing scrap metal collected from
22 throughout the region. We recycle approximately four
23 hundred thousand (400,000) tonnes of scrap each year. We
24 are extremely efficient at what we do and we do it in an
25 environmentally responsible manner. Making steel from

1 scrap metal reduces 70 percent of the energy and 60
2 percent of the emissions when compared to steel made by a
3 steel mill making steel from iron ore.

4 Gerdau also takes this respons -- this
5 social responsibility very seriously in Manitoba. With
6 the help of our employees, we support the Selkirk
7 Hospice, Safe Workers of Tomorrow, the Food Bank, Red
8 River Hamper Toy Drive, the Manitoba Heart and Stroke
9 Foundation, the Red River Clean-up Operation, and the
10 Selkirk Fire Department, to name a few.

11 Next slide, please. Steel making energy
12 and investment. Steel's an energy and capital intensive
13 business. As with any investment decision, Gerdau's
14 management must consider the long-term costs of doing
15 business. With regard to steel manufacturing,
16 electricity costs are second only to our scrap steel
17 costs, and as such, are a very important contributor to
18 the competitive cost structure. Energy efficiency is one
19 of the tools at hand to help Gerdau's Manitoba facility
20 improve its competitiveness, and we have invested
21 heavily, improving our costs and benefiting the
22 environment.

23 Low-cost, stable, and reliable electricity
24 is essential to Gerdau's operations in Manitoba. While
25 energy costs in Manitoba are generally favourable, our

1 increasing labour costs, high transportation costs, and
2 fuel costs are items that consume some of the advantage
3 offered by lower-cost electricity.

4 Recent rate increases have been
5 substantial. Manitoba energy rates have increased
6 substantially since 2004. Energy rates are up over 20
7 percent since that time. Manitoba Hydro began this rate
8 case with a 2.9 percent rate increase request for 2011
9 and '12. We note that the Public Utility Board, on an
10 interim basis, provided approval for a 2.9 percent
11 increase for 2010, and an increase of 2.0 percent for
12 2011 fiscal years.

13 Gerdau hereby requests that the -- the
14 Board reconsider the contemplated increase and modify it
15 to reflects the costs of service to our customer class.
16 During these difficult economic times, costs have to be
17 reduced, not increased, as they cannot be passed along to
18 customers.

19 Next slide. I'll talk about the demand
20 billing concessions. In the depths of the economic
21 downturn in 2009, the Gerdau Manitoba facility saw
22 production orders fall dramatically. Notwithstanding,
23 the significant economic downturn, we undertook
24 initiatives to keep people employed using the workshare
25 program and reduced -- and immediately started to

1 initiate new plans to operate the plant as efficiently as
2 possible at the reduced operating rate.

3 This, as I'm sure you can appreciate,
4 presented many challenges to the operations, including
5 increased energy intensity due to heating the plant when
6 not -- not operating, an increased use of energy,
7 consumables, and refractory due to starting and stopping
8 the milling processes.

9 One (1) component of our costs that stood
10 out immediately was the average price of electricity.
11 With the reduced load at the plant, the average unit cost
12 of electricity skyrocketed overnight by over 40 percent
13 and became a major issue for continued operation.

14 You'd expect that the utility rates would
15 provide an opportunity to reduce unit costs by reducing
16 consumption, but Manitoba Hydro's rate does the exact
17 opposite: the unit costs increase when you consume less.
18 This is due to two (2) facts: If the demand for steel is
19 low, a steel plant doesn't slow its production down for a
20 month, it simply produces on fewer days per month. So
21 the fifteen (15) minute demand for energy stays the same,
22 but the volume of energy is greatly reduced, driving up
23 the unit cost. In fact, the construct of the demand
24 charge recovers the same amount from the Manitoba mill
25 whether we operate one (1) hour or seven hundred and

1 forty (740) hours in a month. This is one of the rate
2 design shortcomings.

3 Gerdau subscribes to Manitoba Hydro's
4 greater than 100 kV tariff. This tariff has two (2)
5 components: energy and demand. Coupled with the demand
6 charge of five dollars and forty cents (\$5.40) per peak
7 kVA per month, our average unit cost of energy was
8 approximately three and a half (3 1/2) cents per kilowatt
9 hour when we were at full plant operation. Under this
10 current rate design, we had no way to limit our exposure
11 at the reduced operating schedule, and the costs in --
12 increased to four point nine (4.9) cents per kilowatt
13 hour. The only way to lower costs would be to shut down
14 completely for the month.

15 Since the economic downturn in 2008 was
16 unprecedented, we had never previously experienced this
17 problem in the rate design. Coupling the drastic
18 reduction in production with this significant cost
19 increase led us to discussions with Manitoba Hydro to
20 rectify this unintended consequence.

21 When we brought this to Manitoba Hydro's
22 attention, we were informed that other large consumers
23 had similar concerns. Manitoba Hydro -- Hydro subsequently
24 offered the demand billing concession program that would
25 offer relief only after a facility had seen an increase

1 of at least 10 percent in their average unit energy cost.

2 With the demand billing concession that is
3 noted in an ill -- illustrative example in MIPUG Manitoba
4 Hydro Interrogatory 1-21A, average unit costs of energy
5 was capped at approximately four (4) cents per kilowatt
6 hour. So while it is a concession from the approved rate
7 schedule, it is important for the Board to note that we
8 paid on average 10 percent more than we were paying prior
9 to the economic crisis.

10 Without this interim rate change, for
11 which we are very appreciative, we would have had no way
12 to make some relatively hard -- we would have had to make
13 some relatively hard decisions relative to the continued
14 operation of the plant.

15 At almost all of our North American
16 facilities we have the opportunity to reduce costs when
17 situations such the -- as the economic downturn arise.
18 In Ontario, we can avoid the major component of the
19 demand charge by shifting production to off-peaks. In
20 New Jersey, we avoid the highest demand periods and
21 benefit be reducing fixed cost to a fraction of our bill.
22 Other locations have total variable costs which directly
23 pass through cost reductions during low consumption
24 periods.

25 At many of our other North American tility

1 -- facilities we participate in interruptible rate
2 contracts. We have approached Manitoba Hydro many times
3 to subscribe to the appropriate program, but it is closed
4 to new entrance. As a result, there is no other option
5 available to us or Manitoba Hydro.

6 The next slide. In summation, regulations
7 should achieve firm, low cost, stable power rates that
8 are necessary to maintain investment and jobs in the
9 province. Rate stability is one (1) of Gerdau's key
10 investments inputs when making long-term decisions.

11 Demand billing concession should be made
12 permanent, consistent with the Manitoba Hydro
13 application, as the payments already made by those
14 customers was at least 10 percent greater on a per unit
15 basis than the revenues expected by Manitoba Hydro when
16 the rates were set. The demand billing concession
17 reacted as expected to the needs of energy consumers
18 impacted by the economic downturn, and at the same time,
19 those customers were able to keep people employed while
20 ensuring the -- that Manitoba Hydro's revenue stream was
21 secured. Thank you.

22 THE CHAIRPERSON: Thank you, sir. I'm
23 quite aware of the plant's long operations in Manitoba
24 and the significance of it to the province. In fact, I
25 was -- I had the pleasure of attending the hundredth

1 anniversary at the Fort Garry Hotel. It was quite a
2 gala. I remember that. It was very nice.

3 Mr. Vice-Chair, do you have any questions?

4 Thank you very much for your presentation.
5 We appreciate it.

6 MR. DAVID FORSYTH: Thank you.

7 THE CHAIRPERSON: So we'll return now to
8 our -- the -- for the presentation from CAC/MSOS's
9 witnesses, and think we're moving on to Mr. McCormick and
10 the direct examination by Mr. Williams.

11 MR. BYRON WILLIAMS: Yes, we're prepared
12 to proceed, Mr. Chairman and Mr. Vice-Chairman.

13 If I might, and I apologize, Mr.
14 McCormick, Mr. Chairman, right at the start of the day I
15 said that at some point in time the Board might want to
16 have near at hand two (2) information responses. And
17 I'll -- one (1) is PUB-1-35E. And I think there were
18 revisions, but Mr. McCormick indicates he can speak to
19 both.

20 And -- and, secondly, PUB/CAC-1-13 and
21 Exhibit 1. And I just wanted to make sure that the Board
22 had that near at hand as we proceed. They'll come up a
23 bit later in our discussions this morning (sic).

24 And I see Mr. Murphy -- excuse me, Ms.
25 Boyd is looking as well. So, Mr. McCormick, before we

1 proceed maybe we'll just make sure she gets it as well.

2 MR. ROBERT MAYER: What's Exhibit 1?

3 MR. BYRON WILLIAMS: It -- it should be a
4 document from the Emera, E-M-E-R-A, financial reports.

5 THE CHAIRPERSON: We have it here.

6

7 CAC/MSOS PANEL:

8 GREG MATWICHUK, Resumed

9 JOHN MCCORMICK, Resumed

10

11 CONTINUED EXAMINATION-IN-CHIEF BY MR. BYRON WILLIAMS:

12 MR. BYRON WILLIAMS: Okay. Please
13 proceed, Mr. McCormick. Thank you for your patience.

14 MR. JOHN MCCORMICK: Good afternoon, and
15 thank you for receiving me today. This type of
16 presentation is a bit of a novelty for me. I've never
17 been called to do a PowerPoint presentation as part of my
18 evidence before. And because I'm bringing up the rear,
19 I'm going to try and go -- go quickly.

20 But in going quickly, I would be very much
21 disappointed if I left the Board members behind. And if
22 I start going too fast in either my speech or glossing
23 over points that you would like further explored, please
24 bring me back to task.

25 THE CHAIRPERSON: Thank you, sir.

1 MR. JOHN MCCORMICK: My qualifications
2 are listed on this slide, and there are four (4) points I
3 want to make with respect to the slide. The first one is
4 the fine print that appears after the word
5 "Qualifications." Throughout this document I have used
6 small type to identify the places in my evidence, the IRs
7 or other documents, to which more information can be
8 found, or from which I have drawn important information.

9 The next point I'd like to make with
10 respect to this slide, is that among my experience, which
11 is well catalogued in the written documents, the career
12 that I had with Levesque Beaubien Geoffrion was a firm
13 which became National Bank Financial.

14 In terms of particular experience related
15 to this transaction, which is not borne out in my general
16 discussion of my experience, I have had hands-on
17 experience with Monte Carlo simulation modelling and
18 financial advice assignments, and valuations of
19 companies. My corporate finance experience includes a
20 number of industries, but it also includes hands-on
21 experience with corporate debt financings for a range of
22 utility issuers, including Nova, Alberta Natural Gas,
23 among others.

24 And, finally, my litany of Board
25 appearances in Appendix 1 has one (1) stale-dated aspect;

1 it does not include the fact that I was recently retained
2 to appear before the National Energy Board in a matter
3 involving Maritimes and Northeast Pipeline debt
4 financing, and in particular, the wisdom of one (1)
5 particular covenant, and the allocation of the many
6 millions of dollars of consequences that flew from that
7 covenant being triggered.

8 With those brief remarks, I'm going to
9 continue into an outline. Because of the shortness of
10 time, I will not touch on all my recommendations in the
11 written evidence. I do want to touch a bit on
12 forecasting, because we have not yet resolved all the
13 matters that were discussed in the Centra proceeding. I
14 also want to deal with a couple of the several matters
15 that were arising from the rebuttal of Manitoba Hydro,
16 and some things that arose in the National financial
17 report.

18 I'll offer you one (1) slide on risk, one
19 (1) slide on process efficiency, and, should you remain
20 interested in an interest market update, I have four (4)
21 or five (5) slides at the tail end. But I'm, certainly,
22 if the Board is well acquainted with the current market
23 conditions, quite happy to gloss over those aspects.

24 Let's begin with --

25

1 CONTINUED BY MR. BYRON WILLIAMS:

2 MR. BYRON WILLIAMS: Mr. McCormick, I'd
3 just encourage you -- we'll try and move expeditiously,
4 but to also take your time. I'm -- I'm sure you're --
5 you'll be received with -- with interest by the Board.

6 MR. JOHN MCCORMICK: Thank you. I'm now
7 moving to my recommendations, and I'm only to touch upon
8 three (3). And I probably should have suggested that if
9 the Board wanted to have a document before them related
10 to this, page 10 of my written evidence would be
11 relevant, if you have that at hand. It's not essential
12 in any way for our discussion.

13 But my first recommendation related to the
14 type of debt forecast. And with so many issues before
15 you, I'd like to set some background and remind you that
16 there are three (3) Hydro policies, in terms of
17 forecasting the revenue requirement, which were relevant
18 to this particular recommendation.

19 And the first Hydro policy that I
20 understand is still embedded in the interest costs of the
21 revenue requirement, is that all new debt would be
22 forecast as being long-term debt -- I believe they use a
23 thirty (30) year term in their example -- and not shorter
24 terms, say, five (5) years, or floating rate debt.

25 The second policy that is relevant to this

1 is the overall corporate policy that they would have up
2 to 30 percent of their total debt being based on some
3 floating rate or short-term mechanism.

4 And finally, the third item of interest is
5 the guideline which is well understood, that the
6 proportion of floating rate debt would appear between a
7 15 and 25 percent range. Although, quite curiously to
8 me, in this proceeding we learned that that test may only
9 apply on a once-a-year basis at their year end, which, in
10 my view, lends itself to certain potential for mischief.

11 My recommendation, which is of course
12 found in the executive summary of my evidence, was to
13 reject the assumption that all new debt would be the
14 expensive, long-term, fixed-rate debt, thirty (30) year
15 debt described in some places, and that we should in fact
16 embrace a forecast that recognizes the other policies,
17 which are to maintain a range of short-term debt, and
18 that would have the effect of bringing the matter of
19 interest rate forecasts more into the actuality of the
20 business.

21 Now, I have believed for some years now
22 that this all long -- all new debt is long-term debt
23 represented an upward bias, and frankly, was totally
24 indefensible. And if you wish, we could take a look at
25 section -- or rather, page 10 of my evidence where I --

1 dealing with the expected debt financing show how there
2 would be significant interest reductions from using the
3 short-term component as a forecast element, as opposed to
4 all new debt being long-term during the revenue period.

5 And in that particular example, using old
6 statistics that were available, I identified that there
7 might be \$5 million of savings in the first year; there
8 would be more savings in the second year because we would
9 have floating rate debt done in both years. And the
10 example that I used was based on statistics that were
11 then available. If we went and updated those statistics,
12 which I can do for you now if you wish, the savings would
13 be much greater because the current and prevailing
14 interest rates over the last year are lower than what
15 Hydro had in their forecast for the '10/'11 and '11/'12
16 period.

17 But I'm going at a breakneck speed here
18 rather than taking you in baby steps because I'm quite
19 confident you understand the issue well.

20 And in part because Hydro has indicated in
21 the IFF-10 filing that in future years there will be a
22 component of a floating rate or short-term debt used to
23 forecast interest costs. And so we've come quite a bit
24 in terms of resolving my concern in -- but this is, in
25 fact, a promise of good things to come in the future,

1 because I have not yet seen a document that says we're
2 going to recognize that in the 2009 economic outlooks and
3 the assumptions for the '10/'11 and '11/'12 forecast,
4 which the revenue requirement is based on, we have not
5 yet embraced that a portion of the new debt will be
6 financed on short-term -- on a short-term debt basis.

7 MR. BYRON WILLIAMS: And I see you, Mr.
8 McCormick -- I'm just watching the Chair's facial
9 expression; perhaps I shouldn't do that.

10 Mr. McCormick, are you -- are you making
11 the point that the -- embedded in IFF-09 is the -- the
12 old approach to forecasting new debt?

13 MR. JOHN MCCORMICK: Yes. IFF-09 has the
14 old approach to forecasting new debt. I -- perhaps, Mr.
15 Chairman and Mr. Vice-Chairman, if you have the PUB-135E,
16 either the old or new addition, I could use that just to
17 underscore my point.

18 May I speak to that briefly?

19 THE CHAIRPERSON: Please.

20 MR. JOHN MCCORMICK: In the old IFF --
21 sorry, in the old PUB-135E, there's a list of recent
22 financing. And there is an indication that there will be
23 some forecast financing in the '10/'11 year for \$800
24 million of financing, and they were all to be financed at
25 4.65 percent, being the forecast rate. And for '10/'11 -

1 - pardon me, '11/'12 there were a further 600 million of
2 fine -- new financing to be done, again all at the
3 forecast rate which was 5.2 percent.

4 If you have the replacement or the updated
5 PUB-1-35E schedule before you, you would see that not all
6 of the financing is done in the year '10/'11 which was --
7 well, was essentially completed, were long-term
8 financing; several were short-term financing. And so, to
9 maintain, if you like, the fiction, that all new debt is
10 going to be the most expensive debt, when in reality many
11 of the issues which were done and will be done in future
12 will be shorter term debt, or will be swapped into a
13 floating rate item, creates the upward bias that I fear.

14 And so I would like to see this year's
15 revenue requirement, the '10/'11 and the '11/'12, reflect
16 the new policy that is embedded in the concession related
17 to IFF-10.

18 Flipping to my third recommendation, I
19 think this topic has become the -- what is called
20 "pruning". And in my Centra appearance I recommended
21 that Hydro use what I described as the best forecasters
22 that might create the most robust forecast. And I'd like
23 to let you in on a little secret. Hydro already prunes
24 the forecasts that go into their forecast methodology. I
25 just want them to have a logical and tested methodology

1 for the selection of those forecasters that they choose.

2 Right now, we've had a period where the
3 forecast methodology was largely un-codified. It was, in
4 my view, upwardly biased. And, regretfully, it operated
5 as perhaps a bit of a revenue grab. And in the Centra
6 case you'll recall that they have very old forecasts that
7 had been superceded that were not updated. I think we
8 can do better.

9 With respect to pruning, if one looks at
10 the consensus forecasts, one will see that consensus uses
11 J.P. Morgan, Desjardins, and a number of other, I assume,
12 very competent economic prognosticators, but those were
13 not included in Hydro's list. I'm not sure why they
14 weren't included and other ones, like the Bank of
15 Montreal or National Bank were included.

16 But I'd like to know, as we move into
17 forecasting customer revenue requirements, that we've got
18 the best guys to do that. In my evidence you'll recall I
19 believe I filed an IR, where I suggested that for a
20 particular time period using data available to me the
21 combination of Scotia Bank and National Bank providing us
22 with a more robust forecast than simply taking five (5)
23 or six (6) banks and a few other people and stirring them
24 together in one (1) great stew.

25 Personally, I'd like to get the guy with

1 the best track record on my side, and I'd like to pay
2 attention to what he says, as opposed to worrying about a
3 car -- a cacophony of voices. Recommendation 3.

4 My fourth recommendation was that I
5 thought, for a number of reasons, the Board should adopt
6 an interest cost deferral mechanism, so as to ensure that
7 consumers pay only the right amount.

8 And you'll note that I have highlighted
9 this quote, as I've done throughout the presentation in a
10 number of respects. Generally you'll see that when I've
11 done that, it is for emphasis rather than having actually
12 been in the original quote.

13 So, I believe that if you had an interest
14 rate deferral mechanism, you would end up reducing
15 regulatory costs. And it also has another benefit that
16 completely delights me, and that is that I believe that
17 it would mean consumers over a long-run would pay the
18 right amount of interest: neither too little, nor too
19 much.

20 Reducing the equity burden -- I'm sorry,
21 reducing the regulatory burden was one (1) of the reasons
22 why many regulatory boards in Canada operated an equity
23 return formula. I'm a great proponent of that formula.
24 I understand this Board has had a formula in early days,
25 and, in fact, applied it to Centra.

1 In terms of the regulatory burden, if one
2 were to look back into the Centra case and look at a
3 number of IRs which I composed, including
4 CAC/MSOS/CENTRA-1-1N, which was the one in which I asked
5 for the copies of the source documents that led to the
6 Centra forecast in that proceeding. I didn't get the
7 source documents. The fact that I didn't get the source
8 documents meant that we had to spend a fair amount of
9 time reverse engineering the information that was
10 presented.

11 In this particular proceeding, in one (1)
12 point of their rebuttal, Hydro has suggested that they
13 feel the rigorous regulatory review is appropriate for
14 this process and that an interest deferral account is not
15 required. But it's really hard to have a rigorous review
16 when you don't have the base documents. So I -- I'm not
17 particularly optimistic that Hydro will willingly embrace
18 my recommendations to reduce the over-collection of
19 interest costs.

20 But in the absence of a need for a
21 prudence review, or concerns about debt consolidation, if
22 the Board was to insert an interest cost deferral
23 mechanism into your calculations, there would be very
24 little chance that I would need to appear. So Hydro
25 might effectively get the with that they had when they

1 opposed the application for funding my appearance
2 indirectly, if you were so kind as to advance the
3 position that they put forward.

4 But as I'm about to leave this
5 recommendation and move into forecasting, I want to
6 comment on the concession for which I am very grateful
7 in, IFF-10, that we will now have 20 percent of the new
8 debt forecast at short-term rates, and suggest that I'm
9 not convinced that that's the right amount. And,
10 similarly, there are other items in the very complex
11 Hydro financing characteristics that mean we might need
12 to tune up some other aspects of the forecasting. And
13 I'll get to them in a moment.

14 I'm of the view that forecasting interest
15 expense accurately is critical to customers. I believe
16 it is the largest one of Hydro's expenses. It seems to
17 be about 28 percent in forecast 2010, based on IFF-09,
18 and it rise -- or it rose in IFF-09 to about 33 percent
19 by 2020.

20 I -- I've already taken you to PUB-135E,
21 which provided a couple of examples where things that
22 were forecast at thirty (30) years, were perhaps done at
23 ten (10) years at an interest rate saving, or things that
24 were forecast to be at thirty (30) years and done on a
25 fixed rate basis were done on a floating rate basis.

1 And it's worthwhile, I think, to see as we
2 can in the update, that in the 2009/'10 year, the
3 forecast based on the mix of financing done by Hydro --
4 and I'm looking at the expanded I -- PUB-135E -- the
5 expected four sixty (460) financing costs turned out to
6 be, on a weighted average, four thirty-seven (437). So
7 there were twenty-three (23) basis points times \$900
8 million worth of debt in terms of interest saving, which
9 would have been captured by an interest deferral account.
10 And in 2010/'11 the difference was a weighted average
11 four twelve (412) against a four sixty-five (465) on 800
12 million of financing.

13 So the combination of an interest deferral
14 account, or a more precise estimation of the appropriate
15 ratios within the forecast, and a -- a robust interest
16 rate forecast methodology, I think will help consumers
17 greatly in terms of millions of dollars.

18 Now, I have to say thank you right off the
19 bat to whatever Board staff member in the Centra
20 proceeding wrote PUB/CENTRA-2-198. That was the IR that
21 picked up some of the threads of the IRs that I had
22 proposed and caused the applicant in that case to give us
23 just a sliver more information that allowed me to match
24 up some of the forecasts with the names of the
25 forecasters that had provided them, and that was a

1 significant breakthrough.

2 In my recommendation with respect to
3 future interest costs, I was recommending that the
4 floating rate portion of the new debt to be financed in a
5 particular year should be done at the 25 to 27 percent
6 range rather than the 20 percent range. I believe that's
7 more appropriate, and I'll take you through those steps.

8 But let's begin by looking at 20 percent.
9 When I looked at it, I didn't see any in-depth
10 explanation of why that was the correct number. It
11 appeared to me to be the midpoint of the range of their
12 guideline of 15 and 25 percent, and one might ask: Well,
13 why not just forecast on 50 percent -- 15 percent? Or
14 why not forecast on 25 percent, the high or the low end?

15 But if it has to be a midpoint of
16 something, I would prefer that it be the midpoint of the
17 National Bank Financial range of optimal short-term debt
18 structures. Their full range, I understand, was 14 to 27
19 percent. The midpoint turns out to be 20.5 percent, and
20 that sounds like half a percent, not a very big,
21 important number, but when we're talking about half a
22 percent change in eight hundred (800) or a billion
23 dollars -- pardon me, 800 million or a billion dollars of
24 new debt in a particular year, that actually turns out to
25 be a recognizable sum of at least six (6) digits.

1 So, as we try and find the right level,
2 assuming we don't adopt the interest rate deferral
3 mechanism, and we try and figure out the correct amount
4 of debt that should be allocated or forecast at a high
5 long-term rate and the lower floating rate, we need to
6 pay attention to some small things. There are a few
7 factors that need to be considered.

8 Again, referring to PUB 1-35(e), in
9 2010/'11, and I'm using the expanded edition, the full,
10 highly-detailed one as opposed to the initial one, it
11 looks like the average term of debt was sixteen (16)
12 years. And every consumer is acquainted with the fact
13 that the bank will give you a different rate on a GIC for
14 one (1) year or five (5) years or ten (10) years. Term
15 is important to the value.

16 So, to the extent that we're talking about
17 a forecast fixed interest rate to choose a particular
18 rate, we also need to be aware of the variance in term.
19 And while there's really little difference between
20 twenty-five (25) and thirty (30) year or forty (40) year
21 debt in most interest rate environments, there can be
22 significant differences at the ten (10) and fifteen (15)
23 year level from the level that may be forecast for thirty
24 (30) year financing.

25 So, once again, significant consumer

1 savings, which I understand are not reflected in the 2009
2 assumptions that led to the '10/'11 and '11/'12 interest
3 costs. And I'd like to see the Board be cognizant, in
4 setting the revenue requirement, of the interest rate
5 differences which have already happened. And I'd like to
6 see the Board be aware of the new lure -- lower forecast
7 rates which we see in the market.

8 So, again, assuming that I cannot convince
9 you that the interest rate deferral mechanism is the
10 ultimate way to go, in terms of my recommendation for the
11 proportion of debt that should be treated as short-term
12 debt among the new debt, I'm in the 25 to 27 percent
13 range.

14 One (1) of the factors I've already
15 touched on is the fact that not all long-term debt is
16 really long-term debt. And the second factor that I'd
17 like to touch on is Hydro's note program. And my
18 understanding is that Hydro has the ability to issue some
19 \$500 million of notes, these are generally done at a very
20 low cost financing level. My understanding also is they
21 typically will get up into the two (2) or perhaps \$300
22 million range before they undertake a long-term
23 financing, and there may not be any notes outstanding at
24 a particular point in time depending on their cash
25 requirement.

1 But even twenty-five (25) or thirty (30)
2 basis point numbers on \$200 million worth of debt is a
3 factor that can be included into forecasting. And we
4 needn't have an upward bias by making the assumption that
5 everything is long term, or that only a small portion of
6 the floating rate debt is floating rate.

7 I apologize to the Board. I see that I
8 was delayed in not giving you the slide that I was
9 actually thinking I was speaking to. Pardon me, I've
10 gone the wrong way.

11 I started to learn about Hydro's interest
12 rate forecasting methodology in the Centra 2009 GRA
13 proceeding. And I've given you two (2) quotes, I'm going
14 to give you two (2) more in a second that related to the
15 things that I was told at that time.

16 You may recall from my evidence that I did
17 not think we had yet achieved a sound forecasting --
18 forecasting methodology because we were using stale,
19 dated data. We were using data of different
20 descriptions, end of period, period average. And we've
21 resolved many of those issues, but I do think that we can
22 do a very good job of improving things.

23 The second quote refers to numerous high
24 quality and independent forecasters. I've already told
25 you that I think we can prepare an analysis that would

1 provide a methodology showing that we have the best
2 forecasters. And I don't know whether any of the names
3 that are included in the consensus forecast that are not
4 in the Hydro sample are, in fact, better than we might
5 otherwise have.

6 This slide presents two (2) more quotes.
7 The first one really relates to the pruning issue. The
8 Corporation in the Centra case did not review the
9 relative success of its forecast. And for a
10 sophisticated organization like Hydro not to review the
11 success or failure of its forecasting methodology of its
12 largest expense, to me, was completely puzzling.

13 Looking at the last bullet again, in the
14 context of this hearing, to learn that Centra -- and I
15 assume Hydro, monitors and assesses interest rates on an
16 ongoing basis caused me to think of two (2) logical
17 corollaries. The first is: They should be well equipped
18 to provide you with updates as to the situation in the
19 market and changes in forecasts. And we have some in the
20 revision of PUB-1-35E, but that information ended in
21 January. I'm sure there have been a number of financing
22 since then which may have affected the average interest
23 cost and I'm quite certain were unlikely to have been
24 done at a 5.2 percent interest rate.

25 The second corollary is that they are well

1 aware of the variances that have arisen. And to my
2 knowledge and I may be comp -- I may have missed a
3 document in the veritable forest of filings here, but I
4 haven't seen any statement that says, We now recognize
5 that the 5.2 percent rate for long-term financing in
6 '10/'11 is really high, and we are prepared to embrace a
7 reduction of that forecast rate in our revenue
8 requirement. But I do accept that Centra and Hydro
9 assess interest rates on an ongoing basis.

10 While I'm hopeful that Hydro will embrace
11 my suggestion that pruning would be a valuable task, I
12 was interested to read that 'K' and 'M' thought there
13 was, and I quote, "definitely a role for qualitative
14 professional judgment" in forecasting.

15 Not to belabour a point unduly, I was
16 disappointed with the professional judgment that I saw in
17 Centra which did not seem to care whether inputs were
18 statistically dependent or independent. They didn't seem
19 to care about stale data.

20 But -- well, it can be difficult and
21 admittedly difficult to forecast future interest rates
22 often resulting in significant variances. The fact that
23 it's difficult doesn't mean that we shouldn't put
24 resources into the process to get the best results done
25 for consumers.

1 People make choices every day. In our
2 daily lives we'll go shopping and we will make what will
3 be a relatively easy decision. We'll try and choose the
4 best melon or the best orange from a container of fruit
5 provided in some local store. When we go into the -- the
6 cookie aisle we may see fifty (50) or more different
7 packages of cookies, and to pretend -- ask you to pretend
8 for a moment that each package of cookies that you see
9 laid before you is actually an interest rate forecast.

10 When Hydro went shopping, as far as I can
11 tell, they picked some well-known names off the packages
12 of -- of interest rate forecasts that were available.
13 They picked BMO and Scotia and the federal government,
14 but they didn't look at the ingredients. They didn't
15 look at the raw material that was there or check to see
16 if the package was stale dated.

17 I'm allergic to bad forecasting. I have a
18 niece who is allergic to peanuts. And as a result of
19 both those allergies I tend to read the package
20 information. It may be more difficult or inconvenient to
21 do that, but it's necessary for my niece's benefit and
22 it's necessary for the consumer's benefit that we get the
23 rates right.

24 Hydro did use its professional judgment by
25 picking BMO and rede -- rejecting Desjardins. I'm happy

1 to let them make those choices. I'd just like to know
2 there was a methodology out there that says we made good
3 choices.

4 Forecasting, as I've said, is difficult.
5 It's complicated. And the central quote on the slide
6 you're looking at now refers to the optimum balance of
7 short and long-term debt in both Cana -- both Canadian
8 and US currencies.

9 In earlier proceedings we asked how Hydro
10 defined optimum. We asked them a range of questions
11 about the balance there. And, frankly, we did not at
12 that time receive answers that were satisfying, at least
13 to me, and ultimately that discussion led to the National
14 Bank financial report, which we will be chatting about
15 briefly.

16 Now, Hydro's views on a number of subjects
17 are described as policies, guidelines, and, in this case,
18 a long-term objective. These various policies,
19 guidelines, and long-term objectives have been quite
20 interesting to me for the last several years. But while
21 I've asked for the documents that provided them so that I
22 could read the, if you like, ingredients, they didn't
23 seem to be written down anywhere.

24 The fact that I was unable to get a copy
25 of the policy to me was very interesting because I -- I

1 would have thought large organizations were really good
2 at preparing policies and I -- we've seen some in the
3 proceeding on other areas. Now --

4 MR. ROBERT MAYER: You're not -- you're
5 not the first person to comment on Hydro's lack of
6 documentation.

7 MR. JOHN MCCORMICK: Thank you, sir. I -
8 - I did though, find it very interesting, because I had
9 assumed that if you have a policy that you're supposed to
10 be within fifteen (15) or twenty-five (25) or under
11 thirty (30), that meant every day.

12 I know that my bank account has a policy
13 that says my checking account will be in positive
14 territory or my phone is going to ring. It's a very
15 simply policy. I had made that assumption, because no
16 time period was mentioned. But we did learn in
17 CAC/MSOS/MH-2-119 Revised, of something that the policy
18 that I'm never able to get my hands on did not state.

19 I quote:

20 "Note that Hydro's..."

21 Pardon me, I must begin again. Quote:

22 "Note that Manitoba Hydro's floating
23 rate policy does not state it is
24 applicable for each quarter. It has
25 been long-standing Corporate practice

1 to be in compliance with the target at
2 year end."

3 End quote. Without regard to what the
4 policy does or doesn't state, or is or is not written,
5 having a short-term debt policy that only applies on one
6 (1) day a year could lead to mischief on the trading
7 desk.

8 And I've worked for a bunch of brokerage
9 houses and we watch what our traders are doing, because
10 if they go rogue on us we need to be on it immediately.
11 The fact that this comment came to light in a revision
12 meant that I was not able to follow it up in the way I
13 would have liked to. So in future hearings it may be
14 necessary for us to find out the frequency of the
15 application of the other policies that we have been
16 referring to.

17 Like my colleague, Mr. Matwichuk, I will
18 not be addressing every comment in the Manitoba Hydro
19 rebuttal with which I do not agree. And the fact that I
20 may gloss over something or not specifically address it
21 should not be taken as my tacit agreement with respect to
22 that matter.

23 In its rebuttal Hydro addresses timely
24 forecasts and it notes that interest rates were again
25 reviewed in October 2009. October 2009 was nineteen (19)

1 months ago. A lot has happened in the financial markets
2 in that time period. And while we have some information
3 that was updated in January, we have IFF-10 and a few
4 other things, we really don't yet have the full picture.
5 We don't have all the information that I believe the
6 Board should have to adequately assess the revenue
7 requirement with respect to interest.

8 Now, with respect to footnote 18, this is
9 a -- a small point, but footnote 18 was part of a
10 discussion which arose from CAC/MSOS/MH-1-141B and some
11 other information in the proceeding in which I observed
12 that there were certain forecasts from, in this case, I
13 believe the federal and British Columbia governments,
14 that had not been updated. And I was not able to
15 conclude the importance of those on their forecast
16 methodology, but, in keeping with the views expressed in
17 my Centra appearance, I like current data. I don't like
18 superceded data.

19 And in their response in footnote 18, I am
20 accused of being inconsistent and ignoring my own
21 arguments that we should not use data from statistically
22 non-independent sources, which were the BC and provincial
23 government. And I think, if you drill down, what you
24 will see is that, in the year 2013 and beyond perhaps,
25 they were using old federal government data and old BC

1 government forecasts for one (1) element of their long-
2 term interest cost estimation.

3 And I've gone back and taken a look at my
4 evidence and the source documents, and I admit that I
5 can't see where I was wrong, but perhaps their position
6 is, 2013 doesn't really matter in a hearing for the
7 '10/'11, '11/'12 year as a -- and I will admit it's of
8 lesser importance. But we're embarking, I believe, on a
9 decade of investment, and, frankly, I'd rather know the
10 cumulative consequences of the millions or perhaps
11 billions of dollars of new debt that's going to be
12 incurred over time, and I'd rather they were properly
13 estimated.

14 So rather than embracing the November 2008
15 federal data when the January 2009 data was available, I
16 think I have to go with the January 2009 data. And,
17 similarly for BC, the document that I referred to, I
18 believe, had February 2009 data when September 2009 data
19 was available.

20 As I'm moving along, I have used the word
21 "rigorous" a few times in this proceeding. This is the
22 quote from which it was derived, and apparently I have
23 failed to acknowledge your rigorous cost of service
24 methodology. I don't believe that is the case, and,
25 frankly, I'm not a methodological purist. I don't really

1 care about the -- the subtleties of the methodologies
2 this Board applies. You know how you work better than I
3 will, but I do know that you can't make your best
4 decisions with flawed inputs. And it's irrelevant to my
5 concerns what you do with the data we provide you, but if
6 we give you a poor forecast, I know you are less able to
7 do the job I'm sure you'd like to do.

8 I really enjoyed this objection, though.
9 I thought the author of this quote had a delicious gift
10 of irony, because Hydro's wrapping itself in the flag of
11 rigour, and I'm thinking back to the Centra case, and I'm
12 postulating that, to have an efficient and rigorous
13 review, you really should answer the question when I ask
14 for the source documents. And, frankly, I'd like Hydro
15 to answer the questions more directly. When I've asked
16 for a copy of what turned out to be a Bank of Montreal
17 publicly available report, there really wasn't a lot of
18 copyright concern that could have been there. I probably
19 already had it in my file at home.

20 So to read this objection to my evidence,
21 you'd think that Hydro would welcome a rigorous review.
22 They weren't very forthcoming with some of the data in
23 Centra. There were a couple of places where, in this
24 proceeding, my counsel requested incremental further and
25 better disclosure. They seemed to be somewhat resistive

1 to the logic of a pruning exercise.

2 I promised this Board that if I'm ever
3 invited back I will vigorously and rigourously review the
4 material presented. That, of course, assumes that Hydro
5 doesn't make another objection to providing the
6 Intervenors with a budget to afford me, which again,
7 doesn't seem to me to be quite in keeping with sponsoring
8 a rigourous regulatory review.

9 There's a point though after the word
10 methodology, another complete topic that I'd like to
11 spend a second on and that is that I am failing to
12 recognize that because of the inferior forecasting
13 methodology more consumer money was paid in on interest
14 that wasn't actually needed to be paid out. And the good
15 part of all that is that the retained earnings, or
16 increased net income, are now being held for the benefit
17 of ratepayers.

18 I've not objected to Hydro having a
19 particular equity or income layer, as far as I know, in
20 any proceeding. I do object to defending a seriously
21 flawed and substantially untested group of policies as
22 part of a -- a program that has the effect of maintaining
23 or increasing income. I would prefer that if someone
24 actually needed a higher level of income they would make
25 that case directly rather than surreptitiously.

1 And the other aspect of retaining these
2 extra funds for the benefit of consumers is that it's not
3 an RRSP, it's not something that I can get the year that
4 I need it. It's like, I've given it away and at some
5 future year of unknown time some potentially illusory
6 benefit will be available to the customer, but not
7 necessarily to me.

8 Hydro has told us, on page 22 of 96, that:

9 "To the extent there are higher
10 contributions to retained earnings as a
11 result of this difference there will be
12 lower future rate increase
13 requirements."

14 Perhaps, I don't know. But I have to tell
15 you I am not persuaded for several reasons. The first
16 one (1) is intergenerational equity. To some people, I
17 think intergenerational equity is a fancy term. To me,
18 it's actually quite real even in this Hydro proceeding.

19 And my rationale for that is that one of
20 my best friends, a lawyer that I worked with in the late
21 '70's and early '80's has a beautiful wife, Diane
22 (phonetic). And she comes from a town called Swan River,
23 Manitoba, which is about six (6) hours drive from
24 Winnipeg. I've heard about the drive, among other
25 things.

1 The parents of Diane still live in that
2 town, they're in their '70's. And it's absolutely clear
3 to me that they've got a pretty darn good chance because
4 they're healthy of living through the decade of
5 investment. I'm not really sure that they're gonna be
6 around for very much, if any, of the decade of return
7 that will follow.

8 And so, for Diane's parents I'd be quite
9 happy if I could convince this Board to consider a
10 interest deferral mechanism so that we got the right
11 amount of interest paid, even though it might mean I
12 would never appear before you again, I'd be willing to
13 forgo that joy.

14 At the risk of overplaying that hand, I
15 think making those elderly folks pay too much is
16 inequitable. And I don't think Hydro is individually
17 nefarious about their forecasting methodology, but I'll
18 bet within an organization like that there is a much,
19 much bigger desire to estimate just a little bit more
20 generously than there is to grind things down to the last
21 cent and potentially be low.

22 But if I can stay with that thought for a
23 minute. In the Centra case we explo -- exposed a
24 problematic methodology for rate base -- pardon me, for
25 interest evaluation and estimation forecasting, and I

1 think that had existed for a number of years. I'm
2 unfortunately handicapped. I never asked them the start
3 date of when they began to use that methodology. But
4 when we found it in Centra's case we demonstrated that it
5 was overforecasting interest rates and interest costs.

6 I'd like you to pretend for a moment that
7 Hydro had a methodology at that time that was chronically
8 and repeatedly and materially underforecasting interest
9 costs. And I'd like you to ask yourself how long it
10 would take Hydro to get a team working on coming up with
11 a superior methodology that would get them back to whole.

12 And if you don't think it'd take very
13 long, you and I are now in agreement that there is an
14 asymmetric interest forecasting advantage in Hydro that
15 makes my interest deferral mechanism fit beautifully
16 because we don't have to worry about them being wrong in
17 a particular test year because in the next couple of
18 years we'll get the money back or we'll pay the money
19 that we should have paid.

20 But from the moment we put in an interest
21 deferral mechanism there really isn't any incentive to
22 shoot for the moon and have a particularly high interest
23 rate forecast because you're not going to be able to keep
24 the money very long.

25

1 (BRIEF PAUSE)

2

3 MR. JOHN MCCORMICK: To begin our
4 discussion of the National Bank Financial report I
5 thought it might be worthwhile to review the six (6)
6 things that were required in the request for proposal or
7 whatever the appropriate term was.

8 The six (6) tasks that you see on the
9 slide behind me are in slightly different language and
10 sequence repeated in Section 1.2 of the National Bank
11 Financial report. And after a very careful reading of
12 the report I am saddened to say that I was unable to
13 confirm that each of the six (6) services for which
14 National Bank Financial was paid were actually delivered.

15 Now, as has been my practice, I've
16 highlighted a couple of words on this slide. I've
17 highlighted, "policies," and I have highlighted the words
18 "steep," "flat," and "inverted" related to yield curves
19 because I want to touch on those as we move along.

20 But let's do the focus of the obligation
21 to define an optimal relative weighting of fixed and
22 floating rate debt for scenarios including steep, flat,
23 and inverted yield curves. I've discussed this in
24 Question 51 of my evidence. The short answer is I could
25 find no instance of the word "inverted" appearing in the

1 report.

2 There was only one (1) use of the word
3 "flat" occurring in the report, and that was in a context
4 unrelated to yield curves. And before we leave this
5 slide you'll see in the fifth recommendation an
6 obligation to provide some information with respect to
7 tools. I'll touch on that in a later slide related to
8 risk.

9

10 CONTINUED BY MR. BYRON WILLIAMS:

11 MR. BYRON WILLIAMS: Mr. McCormick, if I
12 could interrupt for a second just -- and -- and if you're
13 coming to this in your evidence that's -- that's fine,
14 but you've highlighted the absence of discussion about
15 flat, steep, and inverted.

16 Isn't it enough just to have a -- a range,
17 a 15 to 25 percent range? Why -- why would you be
18 looking for an additional discussion in terms of those
19 different circumstances?

20 MR. JOHN MCCORMICK: Well, let's assume
21 for a moment that we have a normal or steep yield curve.
22 Low rates are 1 percent, high rates are five (5), six
23 (6), or seven (7) for the longer terms. In that instance
24 you're in a very different circumstance in terms of how
25 you might want to raise -- arrange your financial affairs

1 than if all the interest rates, whether they were low
2 rates, or long-term rates were in, say, a -- a bandwidth
3 between 3 and 4 percent, you'd behave differently.

4 And if you go back to the really ugly
5 financial period of the late '70s/early '80s when I think
6 we got into long-term rates that may have been in the say
7 17 percent range, and the short-term rates in the -- the
8 21 percent range, you'd probably want to do something
9 radically different at that time than when you were faced
10 with the current example of say 1 percent as a current
11 short-term rate and 5, 6, or 7 percent perhaps as a
12 longer-term rate. I certainly would want to arrange my
13 affairs differently.

14 And the reason why that's important, why
15 the analysis is important, if I'm trying to figure out
16 the optimal structure, or the optimal range, the data
17 that I put into my analysis is going to drive the result.
18 If I put in the 1978 to '82 interest rate period, I'm
19 going to have quite different results than if I sort of
20 ignore that. Because if it never happened I don't have
21 to plan for it.

22 At the risk of using floods as an example,
23 if you plan your construction for a fifty (50) year flood
24 average and we have a one hundred (100) year flood, you
25 may incur a loss that you hadn't anticipated. I hope

1 that's helpful to you.

2 MR. BYRON WILLIAMS: Thank you.

3

4 (BRIEF PAUSE)

5

6 MR. JOHN MCCORMICK: I regret to report
7 that I am of the opinion that Manitoba Hydro's
8 underwriters report is seriously flawed. But without
9 regard to the many flaws in this report, which determines
10 a 14 to 27 percent optimal range, I'm happy to recommend
11 that in approaching the question of the amount of short-
12 term debt that should be used in determ - or allocated --
13 the amount of new debt that should be treated as short-
14 term debt for your forecasting pleasure, that we go and
15 deal with the higher end of that range.

16 Essentially, this report says the old 15
17 to 25 percent target range isn't broad enough. It's 30
18 percent larger, it's seventeen (17) to twenty-four (24).
19 In the exchange of IRs, National Bank Financial and Hydro
20 indicated that fifteen (15) to twenty-five (25) was
21 sufficiently close to fourteen (14) to twenty-seven (27).

22 Well, I disagree, because each one (1) of
23 these points is worth millions of dollars of consumer
24 interest savings. Right now the short-term/long-term
25 spread on base rates is over 3 percent. So, if you start

1 doing math on 800 million times, say 5 percent times 3
2 percent, you're coming up with some fairly nice numbers.

3 Hydro's 15 to 25 percent range is
4 something of a fiction. Based on the quarterly data
5 that's been provided to us in this hearing, the real
6 range, where they'd carry on their business, I believe
7 has been sixteen point six (16.6) to twenty-one point
8 eight five (21.85). That's on a quarterly basis. It
9 would be about the same if we did it on an annual basis,
10 but there would be differences because the sixteen (16)
11 was not necessarily on a year-end date.

12 So within -- looking at that range for a
13 moment and seeing the last ten (10) years of interest
14 rate conditions, I have no idea what interest rate
15 conditions would ever cause Hydro to get up towards the
16 20 percent, 25 percent level, or even the 30 percent
17 level. I can't envision a scenario.

18 So talking about this as a 15 to 25
19 percent range to me seems to be a fiction. We've had
20 some of the most amazing short-term money sales in the
21 last few years that we haven't seen for decades, and
22 we've had declining longer-term interest rates, so we
23 could have had a double win-win. The first win would be
24 having more short-term debt when the rates are in the one
25 (1), one and a quarter (1 1/4) rate. Had we gone to

1 twenty-five (25), we would have saved a ton of money, as
2 opposed to locking in at four point six (4.6) or numbers
3 above 4 percent.

4 And what's happened on the long-end, is
5 over the last few years, we've gravitated down, from say
6 6 percent to 4 percent ranges. So we could have enjoyed
7 a fantastic win in terms of interest rate savings between
8 the short and the long rate through much of the last
9 little period; although there has -- there have been
10 points, and I will come to a chart which will show a
11 slight inversion of the base rates. But I don't think
12 ten (10) to twenty-five (25) is sufficiently close.

13 Here's the promised chart. This chart
14 occurred to me when I was looking through the rebuttal
15 evidence of Hydro in the 2008 GRA. A similar chart
16 appeared on page 20 of 65 of their rebuttal evidence.

17 And their chart was a twenty-five (25)
18 year chart. It charted the Bank of Canada data, and the
19 code is one (1) month BAs, standing for bankers'
20 acceptances, which are very highly liquid, very low-rate
21 instruments, and it looked at the ten (10) year and the
22 long benchmark.

23 And while I want to talk about the chart
24 for a second, in terms of the information on the chart, I
25 want to put -- no, let's talk -- I'm sorry, I'm going to

1 talk about the chart.

2 When you look at this chart, there are, if
3 you like, three (3) interest periods and two (2)
4 transitions between those periods. In the period January
5 2001 to somewhere in 2005 -- in the period January 2001
6 through late 2005, perhaps early 2006, we have a period
7 where we generally have quite low short-term rates, and
8 we have declining longer-term benchmark rates on the
9 Government of Canada stuff.

10 At the tail end, again, beginning sometime
11 in late 2008 and moving through 2010 to current time
12 periods, we have again a period where short-term rates
13 are really low and the long-term rates are materially
14 higher.

15 In the middle, in a period of late 2005,
16 for about seventeen (17) months, we have a period where
17 the yield curve is inverted or flat. You'll see that the
18 yellow line in the middle and the green line of the BA's
19 overlap for a period of time.

20 So in the first and last period, you have
21 a position where by being short there was a significant
22 financial advantage. Had you gone short and hit the 25
23 or 30 percent maximum at the beginning of the chart and
24 not locked in anything you didn't have to, you would have
25 been able, generally, to finance at gradually lower rates

1 as time went on. And during the middle period you really
2 wouldn't care very much whether you were in longer term
3 instruments or shorter term instruments because the rates
4 were pretty much the same. You would be relatively
5 indifferent.

6 So, in Hydro's chart, the twenty-five (25)
7 year chart they put in the rebuttal, this was put in in
8 context of the fixed and floating rate question which we
9 raised at that time and ultimately received the Board's
10 instructions to prepare what turned out to be the
11 National Bank Financial Report. But Hydro prefaced the
12 chart saying, and I quote:

13 "It is important to put in context the
14 interest rate environment for a longer
15 period of time than the last three (3)
16 years."

17 End quote.

18 And this is at page 22 of 65 of their
19 rebuttal. Quote:

20 "Such an analysis would have to be
21 extended over a much longer period of
22 time to incorporate the varying
23 interest rate and business cycles to
24 provide any meaningful results, as it
25 relates to policy direction."

1 Why is this relevant? This is relevant
2 because in the National Bank analysis -- and I refer you
3 to IR CAC/MSOS/MH-1-154E and 'F' -- they tell us the
4 starting and ending dates for the analysis done by
5 National Bank Financial. And the start date is April
6 '05, and the ending date is either March, April, or May
7 of '09, a period of about four (4) years. And while four
8 (4) years is longer than the three (3) period I may have
9 been discussing in the material that leaked through from
10 me in the 2008 GRA, it's really not that much longer and
11 it's no where near twenty-five (25) years.

12 The period that National Bank Financial
13 used for whatever they did in their analysis, is actually
14 quite different than the rest of the time on this chart.
15 And I've used ten (10) year data because it's convenient.
16 I can access it on the internet. It's available at the
17 Bank of Canada website.

18 If you look at the average spread, that
19 sort of range between the short-term and long-term -- and
20 admittedly there's very little spread. In fact, there
21 are negative spreads in -- sort of, seventeen (17) months
22 of this ten (10) year period. The average spread is
23 about two (2) basis -- or sorry, two hundred (200) basis
24 points, 2 percent, between the one (1) month BA data
25 series and the long Canada series.

1 During the seventeen (17) months National
2 Bank Financial was doing whatever it was they were doing
3 with the data series they chose to analyse, these
4 benchmark series, indicative of the financial
5 circumstances of the time, had a spread of eighty-three
6 (83) basis points average. That in interest is a
7 material difference; it's a very special period.

8 And the analysis that National Bank
9 communicated to us in the IR responses is not clear to
10 me; it is very opaque. And I know how to do Monte Carlo
11 simulations; if you wish me to understand things, I can
12 probably ask questions and we can iterate and have a
13 wonderful chat about.

14 But with respect to this, the period of
15 analysis waves a red flag to me. And if understood their
16 methodology, I might be able to accept that, but I don't
17 know how they have set up their various data series, the
18 ranges, the shape of the data, and a few other things
19 along that line.

20

21 (BRIEF PAUSE)

22

23 MR. BYRON WILLIAMS: Mr. McCormick, just
24 before you -- you move on. In the context of Monte Carlo
25 simulations you used two (2) words: one (1) ranges; one

1 (1) was shapes.

2 Do you recall using those words, sir?

3 MR. JOHN MCCORMICK: Yes.

4 MR. BYRON WILLIAMS: And the Board might
5 be familiar with different terms based upon their review
6 of Professor Kubursi and Magee.

7 Would a -- in the context of -- of -- in
8 which you have spoke, for the word "range" would you --
9 would it be possible to substitute "minimum" and
10 "maximum"?

11 MR. JOHN MCCORMICK: Yes.

12 MR. BYRON WILLIAMS: And in terms of the
13 word "shape," would it be possible to substitute the word
14 "probability distribution"?

15 MR. JOHN MCCORMICK: Yes.

16 MR. BYRON WILLIAMS: Please proceed.

17 MR. JOHN MCCORMICK: This portion of my
18 commentary will be drawn from Question 48 in my evidence.
19 This portion relates to data provided in Table 14, the
20 first group of three (3) lines. It was the historical
21 debt mix; effectively, the proportion of floating or
22 short-term debt set out in Table 14. And Table 14 was
23 amended.

24 You'll see that I have highlighted the
25 value for 2007. 2007 was the only year in which the

1 original Table 14 had Manitoba Hydro's floating rate debt
2 number right. In the second group of three (3) lines, we
3 have what was to be Manitoba Hydro's total debt. The
4 initial numbers and the amended numbers were only right -
5 - or the same in two (2) years.

6 I -- I have to tell you I found it
7 interesting that the total debt numbers were consistent
8 in 2008 and 2006. I found it interesting because in the
9 discussion of the work done by National Bank Financial
10 with respect to Emera data points, they admitted that
11 they only used some even numbered financial statements.
12 So they would have the comparative financial statement
13 for -- if you like, 2008 numbers are real.

14 2007 might be comparative, that may be one
15 (1) explanation for why we have correct numbers on those
16 even years. The other could be that they definitionally
17 did not include the note program in their analysis. But
18 that will only account for instances where the error is a
19 positive number; it would not account for instances where
20 the error is a negative number.

21 And in asking you to look at this slide,
22 I'd ask you to remember that the people from Manitoba
23 Hydro who are reviewing the work of National Bank
24 Financial are intimately familiar with these numbers.
25 I'm sure they have immense resources at their fingertips

1 and reports that they could readily assess to determine
2 whether these are correct.

3 Thi -- this report was replete with
4 errors. And I've just shown you a slide related to Table
5 14. Of the values in Table 14, only twenty-seven (27) of
6 the seventy-two (72) values there were not amended. With
7 respect to the very simply numbers for total debt, only
8 two (2) of nine (9) were correct. On Table 17, only one
9 (1) of nine (9) values for the percentage of Manitoba
10 Hydro's floating rate debt were correct. One might ask,
11 how -- how are these errors possible in a two hundred
12 thousand dollar (\$200,000) report.

13 If you have a background in education or
14 parenting, I'd like to point out that twenty-seven
15 seventy (27.70) seconds is 37 1/2 percent, and one (1)
16 out of nine (9) being right is 11 percent, and no course
17 I ever attended would give me a passing mark if that was
18 my exam.

19 This inexplicable circumstance, or
20 conundrum, forces me to urge the Board to require in
21 instances where you authorize or order a new and
22 technical report to be generated on a subject that was of
23 significant interest to Intervenors, that you bring the
24 Intervenors to the table and make sure there's somebody
25 there who's interested in proofreading the document

1 before it sits around for six (6) months and gets exposed
2 in a hearing such as this.

3 National Bank Financial chose to describe
4 their analysis of fixed and floating debt policies as in
5 depth. In fact, we learned through the IR process that
6 they looked at the actual levels, not the policies. And
7 frankly, the fact that they looked at the actuals was
8 somewhat odd since Hydro supplied the policy limits and
9 target guidelines of some of its peers at page 18 of 65
10 in its 2008/2009 rebuttal evidence.

11 The next problem with the peer analysis is
12 that National Bank Financial used actual internal numbers
13 from Hydro, numbers you couldn't get from the financial
14 statements. But for the peers they paid a great deal of
15 attention only to balance sheet data.

16 Well, trumpeting this was an in depth
17 analysis. And, frankly I don't think it's very good to
18 produce a table where you can't use the same methodology
19 to come up with every number in the column using the
20 inputs available to you from the balance sheet. It's not
21 consistent.

22 The other thing which we learned is that
23 there was an agreement that National Bank Financial would
24 only use annual reports. And annual reports represent
25 one (1) quarter of the financial information available to

1 a company or -- and to the industries and investors that
2 are interested in it.

3 So I -- I also think when you publish a
4 report and all your work is based on solely annual
5 reports, that it is professional not to disclose the
6 limitation of your work.

7 In CAC/MSOS/MH-2-117, when we asked about
8 the in depth analysis, National Bank Financial altered
9 the description of their work to be a general insight
10 into the, quote, "Choice of floating rate debt mix," end
11 quote. That wasn't the deal.

12 In my evidence I've documented some other
13 methodological failings that can be seen from the use, or
14 misuse, of SaskPower or Emera information, and I'm not
15 going to go into them. But there are elements of this
16 report that disappoint me.

17 The one (1) thing I have to mention about
18 SaskPower, is that the annual report provided -- the 2008
19 annual report, which was available to National Bank --
20 provided that SaskPower is currently examining its
21 structure to determine if an increased amount of floating
22 rate debt would provide opportunities for lower average
23 borrowing costs. There is no mention of that in the
24 National Bank Financial report because of the focussed
25 attention on the balance sheet rather than the full

1 information that was available. And balance sheets
2 actually don't give you as much information as the notes
3 or the management discussion and analysis. And while
4 their concentration was intense -- again, it was a
5 concentration that applied to the peers -- they use a
6 different methodology to identify the material related to
7 Hydro.

8 A few moments ago, I did mention that
9 using comparable data supplied in, say, the 2008
10 financial statements leads to errors. The table before
11 you is the data supplied by Emera for each year, drawn
12 from its annual reports, except for the chart -- or the
13 column headed 2007/2008, and that was the data that
14 appeared in the National Bank Financial report, and we
15 asked some IRs about it.

16 They calculated that short-term debt
17 represented 2 percent of Emera's debt, based on the
18 financial statement information. If you actually looked
19 at the 2007 financial statement, you would have come up
20 with the number 6 percent. That's three (3) times as
21 big.

22 If you weren't completely focussed on
23 balance sheets, and you actually looked at the management
24 discussion and analysis of Emera, you'd see that, in the
25 management discussion and analysis document, the amount

1 of short-term debt or floating-rate debt that they
2 referred to was in the order of 14 to 24 percent at a
3 time when we're at 11 percent. Essentially, if you look
4 at these numbers, ignoring the 2007 and 2008 column, the
5 National Bank Financial told us about 40 percent of the
6 real amount of debt that Emera had, and they told us
7 nothing about the policies that they were supposed to
8 address.

9 And, frankly, I found, in checking the
10 information related to Sask Power and Emera, that this
11 sapped my confidence for this particular report.

12 MR. BYRON WILLIAMS: Mr. McCormick, can
13 you go back to that chart just for -- for one (1) moment,
14 just for clarification. You see the second-last line is
15 labelled STD/Total?

16 MR. JOHN MCCORMICK: Correct.

17 MR. BYRON WILLIAMS: And is that the --
18 the information reported by National Bank, with the
19 exception of the 6 percent? I'm just trying to get
20 clarity from you, sir, in terms of what that line
21 represents versus the bottom line.

22 MR. JOHN MCCORMICK: That line is found
23 in the National Bank report. It is part of Table 17,
24 except for the 2009 numbers, because they didn't have the
25 2009 numbers available to them. So if you look at page

1 17 of -- sorry, Table 17 of the National Bank Financial
2 report, you will see -- the numbers that you see on my
3 table for 2005 through 2008 can be found in the National
4 Bank Financial report, in Table 17, and in PUB/MH-1-174A,
5 which was an IR related to that, where certain
6 information on the table was corrected, but not these
7 numbers.

8 So you can find the five (5), the seven
9 (7), the two (2), and the six (6) on that IR, or on Table
10 17 in the report. The 6 percent one in the 2007 column
11 is the corrected one that I have identified in my
12 evidence, and the 2009 data was data which was not
13 available to the National Bank, but I threw it in to be
14 more complete.

15 MR. BYRON WILLIAMS: And the bottom line
16 or numbers of the table that's on page 30 of your
17 PowerPoint presentation are numbers drawn from management
18 discussion and analysis?

19 MR. JOHN MCCORMICK: And they are
20 contained in Exhibit 1, PUB/CAC/MSOS McCormick-1-13,
21 Emera Information.

22 MR. BYRON WILLIAMS: Thank you.

23 MR. JOHN MCCORMICK: Why do I place so
24 much information on these obvious errors? I'm, frankly,
25 of the opinion that if the stuff that you can check

1 doesn't bode very well, or doesn't prove up very well,
2 then there are likely to be problems in the calculations
3 that you cannot see.

4 There are invisible errors in SaskPower
5 data, Emera data. And as we weren't provided with the
6 detailed modelling to support the 14 to 7 (sic) percent
7 range I don't have a lot of confidence in it, but I'm
8 willing to give them the benefit of the doubt and
9 encourage it to be dealt with.

10 Mr. Chairman, I -- I don't know if it's
11 your practice to do an afternoon break. I have five (5)
12 more National Bank slides. And if -- if there was to be
13 a break in the afternoon that might be a reasonable time
14 to do it.

15 THE CHAIRPERSON: How much more time do
16 you think it will take to finish your -- your rest --
17 evidence?

18 MR. JOHN MCCORMICK: I have -- I'm on my
19 32nd slide of 52, but the last few slides are interest
20 rate updates, so they're very quick. So I'm probably
21 more than 50 percent through.

22 MR. BYRON WILLIAMS: Based -- based on
23 our trial run yesterday, I'm -- I'm guessing that Mr.
24 McCormick is roughly 70 percent through. But we still --
25 I'm guessing that there's another forty (40).

1 THE CHAIRPERSON: Okay. We'll take a
2 break now.

3

4 --- Upon recessing at 2:42 p.m.

5 --- Upon resuming at 3:04 p.m.

6

7 THE CHAIRPERSON: Okay. Welcome back,
8 everyone. First of all it might be helpful, Ms. Boyd,
9 would you mind putting this on -- on the record?

10 MS. MARLA BOYD: Certainly. Thank you,
11 Mr. Chairman. Distributed at the break was Manitoba
12 Hydro response to Pre-ask Question number 4, which is the
13 twenty (20) year financial outlook for 2010/'11 through
14 2020 -- 2029/2030. I believe it should be marked as
15 Manitoba Hydro Exhibit Number 154.

16

17 --- EXHIBIT NO. MH-154: Response to Pre-Ask 4

18

19 THE CHAIRPERSON: Thank you. Ms. Boyd,
20 do you happen to know the -- I'm sure the answer is
21 within it, but the -- the amendments go beyond simply the
22 construction costs, do they?

23 MS. MARLA BOYD: My understanding and I -
24 - I'll have to make it subject to confirmation with the
25 right people in the back room, is that it reflects the

1 updated costs of Bipole 3, it doesn't reflect anything
2 else, but it shows you -- and able to -- to allow you to
3 compare this to the previous statement, it allows -- it
4 shows only the -- the changed costs of Bipole 3.

5 THE CHAIRPERSON: So it doesn't attempt
6 to reflect the -- the new export contracts or anything of
7 that nature or any changes in short-term export sales
8 prices or anything of that nature.

9 MS. MARLA BOYD: No, that's my
10 understanding.

11 THE CHAIRPERSON: Okay. Thank you. If
12 it's any different, if you could let us know --

13 MS. MARLA BOYD: Certainly.

14 THE CHAIRPERSON: -- in the morning.

15 MS. MARLA BOYD: Yes, Thank you.

16 THE CHAIRPERSON: Thank you. Mr.
17 Williams...?

18 MR. BYRON WILLIAMS: Yes. And Mr.
19 McCormick will be resuming on page 32 in short order.
20 But just if the Board -- if the panel members and -- and
21 parties in the room could turn to page 19 of his
22 PowerPoint presentation for just one (1) second. Page
23 19, which is --

24 THE CHAIRPERSON: We're there.

25 MR. BYRON WILLIAMS: In the second bullet

1 you'll see a reference to in footnote 18. And what --
2 just that actually should say, in footnote 1, and that's
3 from pages 20 of 92. So it should read: in footnote 1.
4 And if you're looking for the page on which that footnote
5 appears it's page 20 of 92.

6 THE CHAIRPERSON: Thank you.

7 MR. BYRON WILLIAMS: I think Mr.
8 McCormick might have been referring to the PDF page at
9 the top, so.

10 THE CHAIRPERSON: Well, that's fine.
11 The correction helps. Thank you very much.

12 Mr. McCormick...?

13 MR. JOHN MCCORMICK: Thank you, Mr.
14 Chairman, panel. Slide 32. You've seen this quote
15 before, it was one of the starting points for our
16 discussion in testing the assertion of optimality. In
17 reply to the various IRs in that proceeding, we have
18 obtained the National Bank Financial report to supplement
19 the lack of supporting analysis and the lack of academic
20 literature that was brought out in that report. But,
21 regrettably, after reading the report I remained
22 unconvinced that we have identified the optimum balance.

23 In these various proceedings the
24 Intervenors have attempted to seek to understand these
25 policy levels. And we were advised, essentially, that

1 these were matters of judgment. We received no
2 confirming analysis.

3 In its rebuttal Hydro asserts that the co
4 -- coalitions case was primarily based on the premise
5 that they were underweighting their floating-rate debt
6 below optimal levels. Really the initial issue in the
7 first case was that they had asserted optimality. And
8 when we asked how they demonstrated the optimality they
9 had no support.

10 Intervenors in a rigorous regulatory
11 review are certainly entitled to ask for proof of
12 statements made in that utility's evidence. We don't
13 need a premise to ask those questions. We're entitled to
14 say why do you do the things you do.

15 The optimality discussion only took the
16 shape it did because when we asked the questions we
17 didn't get an answer. But let's be clear. I do believe
18 that in handling its debt portfolio over the last number
19 of years Hydro has missed or lost many opportunities to
20 provide the consumers with lower interest costs without
21 unduly increasing the risk of their performance. They've
22 never been anywhere near the top range in a whole range
23 of financial markets. For me, that makes their top range
24 really less reasonable.

25 As I mentioned earlier, I've read the

1 evidence of these proceedings quite closely, and I have
2 no idea under what circumstances they'd ever be near the
3 top range. And the -- the fear of being at the top
4 range, in my mind, is overstated relative to the risk
5 because there are tools available to mitigate the risk of
6 higher levels of floating rate debt than we've seen.

7 In it's rebuttal at page 31 of 96 Hydro
8 has referred us to the modern portfolio re -- theory
9 approach in the National Bank Financial report which
10 arrived at a 12 to 23 percent floating-rate debt level.
11 National Bank clearly said that that modern portfolio
12 theory was subject to limitations.

13 And, frankly, when your advisor says this
14 isn't the best way to do something, it's kind of hard to
15 raise that range, the twelve (12) to thirteen (13), as a
16 superior range than the fourteen (14) to twenty-seven
17 (27). And I'm willing to accept the fourteen (14) to
18 twenty-seven (27) as the point that we should use in
19 future forecasting.

20 But Hydro also asserted that CAC/MSOS
21 advocated this modern portfolio theory range. I'm not
22 sure where they've advocated that. I certainly don't
23 recall ever advocating that method or, frankly, any
24 method for which I've had a particular preference.

25 In its rebuttal Hydro also asked us to

1 look beyond the errors and omissions that I believe were
2 found in the report and presented in my evidence by
3 saying, and I quote:

4 "Any suggestions by Mr. McCormick that
5 NBF omitted to provide sufficient
6 granularity are therefore misdirected."

7 This is the first time I've ever been told
8 my observations lack granularity. I actually had to look
9 it up and I disagree. And I think in looking at the
10 whole picture from my legal background, a rule of
11 interpretation called the contra proferentem rule is a
12 really good ruler to hold up to this situation.

13 The contra proferentem rule, as I recall,
14 is used by courts when they're looking at cases of uneven
15 bar -- bargaining position, like getting a car from a
16 rental car company where there's a lot of fine print, and
17 either get the car or you don't. And the courts tend to
18 deal with what might be unfair circumstances in the
19 contracts by saying, unless you've got the right magic
20 words we're not going to stick it to the customer.

21 Well, I think that concept is very helpful
22 here. The Board made the order. Hydro established the
23 terms of the request for proposal, they listed six (6)
24 things which we were supposed to get. They negotiated
25 the price, they included the word "policies," they

1 included the word "tools," which I'm still going to
2 discuss. They picked one (1) -- they picked the list of
3 people who were entitled to receive the policy or the
4 opportunity to compete, and they picked one (1) of their
5 parent organization's underwriters to do the job. They
6 apparently received from National Bank some assurance
7 that it was going to be an in-depth analysis as we see
8 those words in the report.

9 And having reviewed the report, however
10 they did it, they didn't identify any lack of depth,
11 inconsistent methodologies, or data errors which I seem
12 to have pointed out. CAC/MSOS didn't set the terms of
13 reference. We didn't pick the party to do it. We didn't
14 -- we still never got to see the parameters of the Monte
15 Carlo simulation and understand how those really work.

16 But we did get to review the results and I
17 believe my observations have granularity and I again
18 recommend that in future if you order a special report on
19 a technical matter, that the Intervenors be permitted to
20 sit at the table. And if not participate in the -- the
21 scoping of the report to at least hear the structure of
22 the analysis and learn of the special limitations that
23 are being made on data gathering and have an opportunity
24 to proofread the report before it sits around for six (6)
25 months and is reviewed in a hearing such as this.

1 In its response in rebuttal Hydro notes
2 that all the other requests in the RFP beyond the
3 directive to determine a -- an optimality number were to
4 obtain additional value. And I'm quite willing to agree
5 that these other requests were clearly to give additional
6 value. In fact, the literature review directly would
7 parallel something that we requested in an IR in a
8 previous proceeding.

9 But I'm also sure that they cost money as
10 investment bankers as which I -- of which I once was one,
11 rarely do work for free. And regretfully, I see little
12 value in the way some of these other requests were
13 performed.

14 MR. ROBERT MAYER: Mr. McCormick, you
15 have reference up there to page 30 of 96. And the
16 rebuttal I have is page number whatever of 92. Is there
17 -- I'm having a little trouble --

18 MR. JOHN MCCORMICK: Thank you, sir. May
19 I assist you?

20 MR. ROBERT MAYER: That would be helpful.
21 I think that's why I'm asking.

22 MR. JOHN MCCORMICK: When I was preparing
23 this I was using electronic documents. And so the thirty
24 (30) of ninety-six (96) would relate to the PDF format in
25 Adobe. So I think if you add four (4) pages to go to

1 page 34, if my memory is correct. Because typically in
2 Adobe page number 1 is the cover page and it may not be
3 numbered that way.

4

5

(BRIEF PAUSE)

6

7

MR. JOHN MCCORMICK: My colleague, Mr.
8 Matwichuk, is attempting to find the document.

9

MR. BYRON WILLIAMS: We're having an
10 internal debate whether you go up pages or down pages.
11 Mr. Mayer, Mr. Vice-Chair, if I could suggest this. You
12 have my assurance that this is in the evidence. We'll --
13 we'll -- I'll send Mr. Matwichuk looking for it in the
14 transcript, and if -- if -- unless you feel it's critical
15 that we stop here to -- to --

16

MR. ROBERT MAYER: No, no, no. I don't
17 feel it's critical. I'm just finding that the references
18 --

19

MR. BYRON WILLIAMS: Yeah.

20

MR. ROBERT MAYER: -- are useless to me,
21 and so --

22

MR. BYRON WILLIAMS: Yeah, we understand
23 that, and certainly if the Board wishes us to correct
24 that, we can do it.

25

MR. ROBERT MAYER: I don't want to do

1 anything to prolong today.

2 MR. BOB PETERS: Just an attempt to get
3 on the microphone, Mr. Vice-Chair, Mr. Matwichuk can look
4 to page 26 of 92 of the printed rebuttal. So I hate to
5 say this on the record, but Mr. Williams was correct. It
6 was -- it was page 26 as opposed -- subtract four (4)
7 from the noted numbers would -- would bring us back
8 onside. So I did find the quotation. It is in the last
9 paragraph on page 26 of 92 of Manitoba Hydro Exhibit 8,
10 which is their rebuttal evidence, and I hope that helps
11 My Friend Mr. Williams.

12 MR. JOHN MCCORMICK: Thank you, counsel.
13 Thank you, Mr. Mayer. I'm sorry that my references were
14 confusing.

15

16 (BRIEF PAUSE)

17

18 MR. JOHN MCCORMICK: Mr. Chairman, Mr.
19 Mayer, the final point on this slide is that I view the
20 other tasks as valuable, mainly to the degree that they
21 have given us a window on the quality of work in the
22 balance of this report. And one (1) of the items that
23 was supposed to be dealt with in the National Bank
24 Financial report was the question of whether there were
25 tools out there to make things better.

1 And my counsel suggested that we might
2 look at the Emera exhibit that was addressed -- and I'm
3 afraid, sir, I'm guilty again of having used the
4 electronic references to describe, in my notes, that page
5 23 of 35 of the Emera exhibit is relevant. It relates to
6 the 2007 annual report, and there you'll see a reference
7 to the fact that Emera capped its exposure to 86 percent
8 of its floating-rate debt at that time. And while I
9 don't have a page number, if you look at the lower
10 corner, it is a page that has the number 45 by Emera, and
11 I've highlighted the little paragraph where we see that
12 Emera, who had floating-rate debt, thought that it was
13 worthwhile to cap its exposure.

14 So, in terms of their fear that the
15 floating-rate debt would run up, say, to the 17 or 21
16 percent of the interest rate spike of the '70s or '80s,
17 they already had it fixed, and there are several other
18 examples in the Emera documentation of their discussion
19 of how they've used caps. Regrettably, there is no
20 discussion of caps on floating-rate debt in the National
21 Bank Financial report.

22 MR. ROBERT MAYER: I think we -- I think
23 we have your point, that you're not impressed with what
24 Hydro got for its money they paid National Bank.

25 MR. JOHN MCCORMICK: You are succinct

1 beyond my abilities, sir. Thank you.

2 I only have one (1) slide for risk. This
3 slide appears in one (1) of the IRs, and it is a debt-
4 distribution slide. It's based on Hydro-supplied
5 information which set out the maturity dates for Hydro
6 debt.

7 Now, there's as complexity in trying to
8 figure out the maturity dates for Hydro debt, because
9 Hydro may take an instrument of a particular year and
10 swap it into a -- an interest rate obligation from fixed
11 to floating, or floating to fixed, and then interest rate
12 obligation may actually mature in a year other than the
13 year in which the underlying debt instrument matures. So
14 there'll be an obligation to bridge that time period in
15 terms of cash, but it doesn't change the interest rate
16 obligation under the interest rate con -- under the
17 interest rate contract.

18 This slide takes the maturity dates
19 presented in one of the CAC/MSOS IRs, 149A, and it
20 addresses the maturities of those various debt
21 instruments and/or the swap interest rate obligations.
22 Because in -- for the purpose of this discussion, I'm
23 also interested in the years in which the interest rate
24 obligations change, so swaps are relevant.

25 The thing that I'd like to draw to your

1 attention is that in the year 2018 we have a whole host
2 of things maturing, or swap contracts ending. And
3 Hydro's got about \$8 billion in debt, and in 2018 you'll
4 see we have about 1.1 billion of debt, either maturing or
5 interest rate obligations related to other bits of debt
6 maturing at that time.

7 So I looked at this chart and said, in one
8 year we've got about 13 percent of our obligations
9 maturing, and that caused me to think about the fact that
10 we have not seen a debt concentration policy for Hydro.
11 And the question of putting all your eggs in one (1)
12 basket is something people learn about very early on in
13 life.

14 If you take the six (6) tallest lines on
15 this chart, which are 2013, 2018 which I've mentioned,
16 2020, '22, '31, and '38, you see that in those six (6)
17 years out of thirty-five (35) years, in which at least
18 \$500 million of debt is maturing, we've got over \$4
19 billion of debt. That's half the game. I don't know
20 when the next interest rate spike is coming, but I do now
21 that there are gonna be a few very unhappy people if it
22 happens in 2018.

23 And yes, there are things that can be done
24 about it at that time; they could go short or long so
25 that the -- the pain was not enduring. But, in terms of

1 the policies, we haven't seen a debt concentration
2 policy, or an interest rate exposure policy in terms of
3 future years.

4 In one (1) aspect of the disclosure in
5 certain years, Emera capped the risk of 40 percent of its
6 floating rate debt. There are tools out there to do it.
7 I would have liked to see something on caps to address
8 that issue, and I would have liked to see some discussion
9 of our risk related to maturities in the discussion of
10 Hydro's financing policies.

11 There's only one (1) slide on process
12 efficiency. In this application, which has gone on for
13 an extended period of time, there's a lot of time
14 sensitive data. I've referred to a number of things that
15 haven't been updated since October 2009; or in the case
16 of PUB-135E, were updated in January. And frankly, I
17 believe the Board could benefit from a series of updates
18 as they go to make the decisions related to this.

19 Even if we just use the comparison for the
20 forecast '10/'11 long bond rate, the forecasts to the
21 economic outlook have fallen fifty-five (55) basis
22 points. Well, fifty-five (55) basis points on 800
23 million or 900 million that may be new debt represents
24 real money, and I would like the Board to have their most
25 up-to-date forecast available to them. Forecast short-

1 term rates for 1011 -- that's from -- pardon me, for
2 2011/2012 in the 2010 economic outlook fell a hundred and
3 thirty (130) basis points, from three eighty (380) to two
4 fifty (250), and I'm about to tell you about the current
5 estimates, which are even lower.

6 So the revenue requirement that I think
7 we're discussing is based on a three eighty (380) base
8 rate, which was in the 2009 economic outlook. And now
9 I'm going to tell you that the going forward estimate of
10 five (5) of the banks I can pull of the internet is in
11 the range of a hundred and fifty (150) basis points: 1.5
12 percent. To me, I'd much rather see the consumers paying
13 rates in 2011/2012 based on what we know today about the
14 forecast rates, the much more current rates, as opposed
15 to superceded rates.

16 And that brings me to the current interest
17 rate discussion. And the slide you're seeing tells you
18 that we're in a position where there are lots of things
19 we could update. I intend to update a few of them. I've
20 already told you that short-term rates, the T-bill rates,
21 have fallen from three eighty (380), and currently, by
22 the way, they're about 1.2 percent. The -- the ten (10)
23 year rate was over four (4), and it's now below that.

24 This slide -- and with the Board's
25 permission, since you have the numbers, I -- I'd rather

1 not read it to you, but if you'd like me to go into the
2 current report in any detail, I'm happy to address these
3 dates. The date -- the values that I have were prepared
4 on May 27th.

5 With respect to the Bank of Canada three
6 (3) month rate, the data series is identified. On June
7 6th is was also 1.2 percent. Dropping down to the third
8 bullet, the three (3) month T-bills, June 6th was also
9 the 0.95 percent, ninety-five (95) basis points, the same
10 number that happened to be on May 27th. The ten (10)
11 year Canada bond was shown at three point-o-four (3.04).
12 It's fallen to three (3) -- pardon me, 2.99 percent on
13 June 6th. And the long Canada benchmark was three point
14 four seven (3.47), one (1) basis point different. So,
15 essentially, my May numbers and today's -- or yesterday's
16 numbers are pretty much on track.

17 The message here is that even if we went
18 and looked at the 2010 IFF, which I think is -- I'm
19 sorry, it's the 2010 economic outlook, which I think is
20 Appendix 51 -- we would see forecasts above those that
21 are currently in the market, based on the knowledge base
22 we have today. And I've prepared a little table using
23 the data that was available to me in May, which gives you
24 the five (5) banks that I referred to, forecasting T-bill
25 rates about 1.5 percent for the financial year 2011/2012.

1 Just one (1) footnote: I want to make
2 sure that you understanding I was using up-to-date data.
3 I've noted that the National Bank date has the 15th of
4 April beside it. It was -- the document that I used was
5 the May economic outlook. That document had as its most
6 current interest rate date in the body of it April 15th.

7 Looking at the longer term rates of -- the
8 2009 target for a ten (10) year plus rate was four point
9 nine five (4.95). I think the PUB-1-39 -- sorry, 1.38
10 that we've talked about earlier, was showing a five
11 twenty (520) rate as the ultimate hydro borrowing rate.

12 We're looking at rates which will average
13 around 3.6 percent, as opposed to the sort of 4.95
14 percent. There -- there's a little tweaking we could do
15 there to reflect one (1) -- the numbers I'm giving you
16 are ten (10) year, as opposed to ten (10) plus rates, but
17 we're materially below rates that were forecast in
18 earlier times.

19

20 CONTINUED BY MR. BYRON WILLIAMS:

21 MR. BYRON WILLIAMS: Mr. McCormick, just
22 before you leave this page, and you may have misspoke,
23 you were referencing a previous PUB IR that we looked at,
24 and I believe you said initially thirty-eight (38) --
25 thirty-nine (39) to thirty eight (38).

1 Are you referring to PUB-1-35E?

2 MR. JOHN MCCORMICK: Thank you. Yes,
3 that was the --

4 MR. BYRON WILLIAMS: Okay.

5 MR. JOHN MCCORMICK: -- one I was
6 referring to.

7 MR. BYRON WILLIAMS: Okay. So just for
8 the --

9 MR. JOHN MCCORMICK: Thank you.

10 MR. BYRON WILLIAMS: -- court reporter.

11 MR. JOHN MCCORMICK: Yes, that reference
12 should have been thirty-five (35).

13 PUB-135E provided us with some information
14 related to financings that had gone on since that date.
15 I'm unaware of Hydro having updated financing since the
16 end of January, but when I went to Bloomberg, I noticed
17 that Manitoba had announced a number of financings, one
18 (1) which caught my eye was a January \$350 million
19 floating rate financing at CDOR or BAs, which are
20 banker's acceptances, at the three (3) month quarterly
21 rate plus fifteen (15) basis points. That issue was
22 recently yielding one point five (1.5), which is somewhat
23 below the three point eight (3.8) that may have been
24 intended as an indicative item.

25 There was also a US pay issue for \$750

1 million. This was not a thirty (30) year long term debt
2 deal, and I don't know whether Manitoba Hydro
3 participated in it. It was sold very close to par. It
4 had a coupon of one point three seven five (1.375), so
5 we'll add a few basis points there. National Bank
6 Financial was a lead manager of that.

7 So, clearly if this was part of the
8 referenced financing under the old assumptions, there's a
9 marked difference between the 1.375 percent rate and the
10 long-term expectation back in the initial revenue
11 requirement, that all financings would be long-term and
12 they would be done at five twenty (520).

13 On May 10th there was a \$400 million issue
14 maturing in 2040, clearly a long-term issue. National
15 Bank was again a co-manager. The recent yield for that
16 was four point three two (4.32). Again, below the five
17 twenty (520) forecast.

18 And once again, the record, as far as I
19 know, is silent in participation in the last two (2)
20 issues. Because the January issue was not mentioned in
21 the PUB-135E schedule, my assumption is we didn't
22 participate; although, from a consumer's standpoint, I
23 would have loved to see those sorts of rates on those
24 consumer's interest cost calculation.

25 You'll recall a slide where we understood

1 that Centra constantly monitored interest rates. I made
2 the point that the possession of that knowledge probably
3 is also in Hydro, and I think we could get an update to
4 show us where we are with respect to these issues. Of
5 course my information is incomplete. I don't know
6 whether Hydro has reopened some of the existing issues
7 and swapped our fixed to floating or floating to fixed,
8 but with respect to the reference, the old forecasts for
9 interest rates upon which this revenue requirement were
10 based are currently high.

11 In response to PUB CAC/MSOS/McCormick-1-3,
12 I provided this table, which I have now updated. This is
13 the recent Bloomberg specific data for May 27th. And
14 there again you see a ten (10) year deal would have been
15 priced off of Manitoba's specific yield of about three
16 point eight (3.8), much less than the five twenty (520),
17 which would be the reference rate in the forecast.

18

19 (BRIEF PAUSE)

20

21 MR. JOHN MCCORMICK: In the Centra case I
22 was asked in one (1) of the Irs to confirm a proposition
23 that if Centra was a standalone entity that needed to
24 independently secure its own financing. It's cost of
25 financing would be significantly higher than the

1 integrated funding rela -- or, pardon me. The cost of
2 financing would be significantly higher with its
3 integrated funding relationship with Manitoba Hydro, and
4 I did not agree with the proposition that was put to me,
5 and I explained the answer in detail there.

6 The reason why I put this slide forward
7 is, it compares Bloomberg 'A' utilities, which include
8 AltaLink, Brilliant Power, Canadian Utilities Fortis, and
9 the issues change from time to time. It would include
10 some of the other government-owned utilities as well.
11 And what we have are a range of spreads, 19 basis points
12 to 61 basis points.

13 The Board is well aware of the 1 percent
14 guarantee fee and, to my understanding, the Board nor
15 Hydro have the power to reduce that fee, but it's one (1)
16 of a host of factors that go into the calculation of
17 Hydro's financing costs, and when I look at the right-
18 most column, I see that the spreads there are somewhat
19 greater than I might hope, but, in fact, they are still
20 well less than the 1 percent, on average. And even if we
21 assume there's some vagary in there for other government
22 issuers that may be included in the Bloomberg Canadian
23 utilities 'A' rated series, the average isn't really
24 getting us too close to 1 percent.

25 But as the Board was very kind in its

1 assessment of my evidence in the Centra case, I would
2 hope that, in assessing the reasonableness of the
3 contrasting views that I've presented with Hydro, you
4 will take into consideration some of the issues that I've
5 mentioned today, like the notes that are not apparently
6 part of the forecasting mechanism; like the fact that
7 Hydro will not always do the longest-term maturities in
8 their long-term debt package; that, in fact, there are
9 ways of increasing the exposure to short-term debt
10 without placing the farm at risk, because we can pay a
11 small insurance premium and have caps; and in recognition
12 of the fact that there is a guarantee fee.

13 And, with that, I'd like to move to my
14 summary and conclusion, and respectfully ask that the
15 Board implement each of the recommendations in my written
16 and oral evidence.

17 I ask that the Board, in this and future
18 hearings, require Hydro to provide interest updates and -
19 - both on a forecast and actual basis, and to approve the
20 efficiency of future hearings, when we have a technical,
21 independent report sought by a consumer intervener, that
22 the Board might require an intervener to at least sit at
23 the table and assist in the prior review of the report.

24 And I thank you for your attention this
25 afternoon, and I welcome questions of the Board, counsel

1 and Manitoba Hydro.

2 THE CHAIRPERSON: Thank you, Mr.
3 McCormick, and, previous to that, Mr. Matwichuk.

4 Before we go on, just one (1) question for
5 Mr. McCormick, if I may, and it's just a general
6 question.

7 Just from your general knowledge and
8 background and involvement in these things, do you expect
9 a QE 3?

10 MR. JOHN MCCORMICK: A quantitative
11 easing 3? Frankly, I had not thought about that. I,
12 like a number of other people, including Hydro, assumed
13 that interest rates would be rising more quickly than
14 they have, and I am concerned with the major European
15 kafuffle and the large US debt overhang.

16 So, to the extent that it may take us a
17 while to dig our way out of the trouble we're in, I am
18 less certain. In fact, I would think it is less probable
19 that we will have quantitative easing 3 because I believe
20 the public sentiment for further government action has
21 been moderated in this country by the fact that hundreds
22 of millions of dollars will never be recovered from the
23 automobile loans in the US, the quantitative easing was
24 lavished on a number of special interest groups that
25 didn't really lead to large stimulus. And I -- I guess

1 the short answer is while anything is possible, I would
2 not think it highly likely. But I do think we're going
3 to be looking at lower interest rates for a longer period
4 than I had established and recommended.

5 And in fact, if you look at the budget
6 analysis, which was made available with the -- by the
7 Federal Government yesterday and you look at the three
8 (3) lines where they give the ten (10) year rate and the
9 T-bill rate from a number of forecasters, you see that
10 each of the three (3) lines shows lower rates continuing
11 for a longer period of time.

12 So, I don't think we're out of the woods
13 for a long time, but I don't think the public has a great
14 stomach for what might be a -- an inefficient greasing of
15 the wheels, having seen the last one.

16 THE CHAIRPERSON: Do you anticipate,
17 therefore, gathering from what you said there, a very
18 gradual return to normal economic times?

19 MR. JOHN MCCORMICK: Well, I hope it
20 won't be too gradual, but I -- I don't think we're going
21 to be experiencing fabulously buoyant times for a while.

22 THE CHAIRPERSON: Thank you, sir. We'll
23 move to the cross-examination.

24 Mr. Hacault...? Mr. Hacault is
25 representing MIPUG, which is the Manitoba Industrial

1 Power Users Group.

2

3 (BRIEF PAUSE)

4

5 MR. BYRON WILLIAMS: And Mr. Hacault, if
6 you could just give us a couple of minutes to clean up
7 the backdrop here.

8

9 (BRIEF PAUSE)

10

11 THE CHAIRPERSON: Be careful. We don't
12 need any worker compensation claims. Thank you, sir.

13 Mr. Hacault...?

14

15 CROSS-EXAMINATION BY MR. ANTOINE HACAULT:

16 MR. ANTOINE HACAULT: Thank you, Mr.
17 Chairman. Good afternoon, all. It's been a long day.
18 I'll ask a couple of questions first of Mr. McCormick and
19 then a couple of -- that will be a bit lengthier for Mr.
20 Matwichuk.

21 Do I understand your evidence correctly,
22 Mr. McCormick, to say that there are two (2) issues with
23 Manitoba Hydro and interest rate optimization? The first
24 one (1) is that Manitoba Hydro isn't implementing what
25 you would see an optimized mix and that it's causing

1 additional interest expense which, ultimately, gets borne
2 by Manitoba ratepayers?

3 MR. JOHN MCCORMICK: I wouldn't have put
4 it precisely the way you have put it. I would suggest
5 that the forecast methodologies remain inadequately
6 proven. We've made steps in the right direction, we're
7 now dealing with more timely forecasts --

8 MR. ANTOINE HACAULT: I was gonna deal
9 with that in the second instance. I understood your
10 evidence to be two (2) criticisms: 1) That they aren't
11 implementing the policy, and the second issue was on
12 forecasting. I want to deal with the first one.

13 Is it your evidence that they are
14 implementing appropriate optimization of their interest
15 portfolio between short-term and long-term?

16 MR. JOHN MCCORMICK: Hydro has a practise
17 of having between 16.6 and, I think, 21.85 percent
18 floating rate debt. It is not clear to me in looking at
19 the interest rate movements and looking at the various
20 financial transactions that they have entered into that
21 there is a clear overriding theory about what we're
22 supposed to be doing.

23 The fact that they have never been near
24 the top end of their own 25 percent range, much less the
25 30 percent limit that has been established, and they had

1 no significant logical developed theory to support those
2 levels caused me concern.

3 We have not yet resolved those concerns,
4 and I think there's more to be done in that area. But in
5 terms of this Board's power, this Board doesn't get to
6 tell Hydro, Oh, I want you to do a ten-year deal this
7 week. They get to say something along the line of, We
8 think a more reasonable forecast debt structure for you
9 in the next revenue period is 27 percent floating, the
10 remainder long-term, and we think reasonable forecast of
11 rates in that period are 1 1/2 percent say for short-term
12 and 4 percent for long-term.

13 And so, do I think Hydro is doing the best
14 job possible and has employed the best parameters
15 possible? The jury is clearly out on that and,
16 unfortunately, the National Bank Financial Report, in my
17 mind, did not provide us with a warm, comfortable feeling
18 that we had wrestled all those demons to the ground.

19 MR. ANTOINE HACAULT: So your message to
20 the Board is, I don't know whether it's cost Manitoba
21 ratepayers because they -- I'm not too sure what the
22 actual numbers are, but there's enough information there
23 to cause this Board -- or should cause the Board concern
24 to say, Well, listen, this is not something that we put
25 away in a drawer. This is something we have to keep an

1 eye on because it may be costing Manitoba ratepayers
2 because Hydro may not be optimizing it's short-term and
3 long-term policy in such a way that maximizes net results
4 or income to ratepayers.

5 MR. JOHN MCCORMICK: I'm quite confident
6 it's costing consumers more than it should. I can't
7 specifically quantify to the nearest penny how much. And
8 I know that in addition to the choices they're making,
9 the manner in which they forecast has been such that it
10 was indefensible, in my mind.

11 MR. ANTOINE HACAULT: Okay. The second
12 issue which you had started to raise before I cut you
13 off, and apologize for that, was the whole issue of how
14 they estimate interest in the long-term forecasts.

15 And am I correct in understanding your
16 view, that based on everything you've given and the
17 numbers, they put numbers that are too high in their
18 estimates when the actuals are lower?

19 MR. JOHN MCCORMICK: I'm not sure of the
20 particular direction of your question. Let me see if
21 this response helps. With the recommendations that I've
22 made Hydro will be closer, I hope, in terms of the future
23 estimation than they were with the quality of work we saw
24 in the Centra case - so we've made some improvements.

25 The IFF-10 change to introduce a portion

1 of a short-term debt will, again, make the estimates
2 closer to the reality of what's actually going on the
3 ground. It still doesn't incorporate everything.

4 There will always be errors. Sometimes
5 those errors will be positive; sometimes they're going to
6 be negative. And I like the interest deferral account,
7 the interest rate deferral mechanism, because you don't
8 need me to testify anymore and it will work itself out.

9 So if Hydro, using the best forecasters,
10 is caught one (1) way or the other by financial changes
11 that make their forecast too low or too high, it'll work
12 itself out without any sweat.

13 MR. ANTOINE HACAULT: But isn't it true,
14 sir, that those results true themselves up in a GRA, in any
15 event, because if we have GRAs, general rate
16 applications, every second year we'll know the actuals,
17 so it's going to true itself up every second year
18 regardless of what the forecasts were.

19 MR. JOHN MCCORMICK: Well, my
20 understanding of the way utilities were regulated was a
21 revenue requirement is approved. And let's say the
22 revenue requirement is ten (10). And one (1) component
23 of that was interest cost, which happened to be 28
24 percent.

25 Well, interest costs vary. In the absence

1 of a deferral account or an interest rate mechanism that
2 ship has sailed. Either the utility is left short of
3 cash that it wanted to come in the door, or it didn't.
4 The fact that we were wrong either positively or
5 negatively didn't effect the revenue requirement which
6 they were authorized to take in rates.

7 And in addition to that, you have
8 differences in the number of kilowatt hours steel plants
9 may use that will affect the revenue. But all this Board
10 can do is order a revenue requirement unless there's a
11 specific deferral account to lead to adjustments, you
12 pick the revenue for the next two (2) years and that's
13 what Hydro gets to keep.

14 They can over earn or under earn. And
15 when we come back to the next rate case, we'll proceed
16 with the new information. And if the new information is
17 we think our equity layer is too low, we have to increase
18 rates to protect from some issue, which by the way is not
19 a -- a theory I subscribe to, but the next case starts
20 with a -- a brand new clean slate and we try and figure
21 out what next two (2) year's interest are going to be.

22 So I don't think you true-up anything
23 unless there's a deferral account.

24 MR. ANTOINE HACAULT: But if they've
25 collected in your view, say just using numbers, \$20

1 million too much because of an over estimate or whatever,
2 they collect it, they come back in front of the Board, we
3 know what that comes down and goes through the expenses
4 and it ends up in -- some of it or all of it in retained
5 earnings. We know the financial status of the company and
6 they come again with new forecasts.

7 So, by the time they come again we know
8 that they've had that extra revenue, or lack thereof if
9 they were off. And every time we come up to -- in front
10 of the Board the Board knows what Hydro has in its
11 pockets as a result of the over/under estimate and -- and
12 proceeds from there.

13 MR. JOHN MCCORMICK: Well, clearly the
14 Board has tremendous discretion. The Board could say, as
15 they did in the Centra case, we like Mr. McCormick's
16 estimates of future interest rates more than we like the
17 Board's -- I'm sorry, more than we like Centra's.

18 But that was a one (1) time deal. If you
19 don't haul me back for the next hearing to say, let's
20 have an improved forecast to debate the numbers, then
21 there is the potential that Hydro or Centra will continue
22 to come in with long-term high forecasts, because simply
23 they pick forecasters who are at the upper end of the
24 spectrum.

25 And in my evidence I noted that the

1 differences in forecasts showing that some guys were
2 high, National Bank tended to be in my recent work one
3 (1) of the higher ones. Scotia tended to be one (1) of
4 the lower ones, if my memory is correct. So, I can go
5 pick a bunch of guys from the consensus economics list
6 and I can say, well, these are great names. They just
7 happen to be ones that are on the high end of the
8 spectrum.

9 And every rate case I'll come in and I'll
10 walk away with 10 million bucks. And the \$10 million
11 number, sir, is a real number; that was the difference in
12 the Centra case between what the Board awarded and was
13 shown in the compliance filing as opposed to the original
14 item that Centra had applied for, and that's an
15 organization that is a tenth (1/10) the size of Hydro.

16 So, over estimation is a big number and it
17 can be a big number on the good side or it can be a big
18 number on the bad side, but there is no financial
19 incentive for Hydro to narrow down to pick the most
20 robust forecast that has an equal chance of being high or
21 low unless you bring in something like an interest rate
22 deferral account, or mechanism as we've described in our
23 evidence, there is no true-up. The ship sales every two
24 (2) years.

25 MR. ANTOINE HACAULT: So that's your

1 sir, that if they paid it in 2010, Hydro keeps it for two
2 (2) years until it gets to 2012, but they don't get to
3 charge that interest twice, do they?

4 MR. JOHN MCCORMICK: No, they only get to
5 charge for interest -- pardon me. They only get a
6 revenue allocation for interest they've forecast, and
7 right now they're forecasting five twenty (520) back in
8 2009 for long-term debt to be done in the '10/'11 period.
9 That forecast is not in keeping with the current interest
10 rate environment and the current forecast by many of the
11 forecasters that were used.

12 So with the cycle, using the Centra case
13 and the Hydro case, the information lag is such that
14 there is a -- a great distance between the time when the
15 initial forecast is done, but the money paid in 2010/'11
16 will never be paid again, but there will be another
17 forecast in the '12/'13 period which increases the risk.

18 MR. ANTOINE HACAULT: Okay. Thank you.
19 Next, Mr. Matwichuk -- hopefully I'm pronouncing that
20 correct. I apologize if I'm not, sir. Could you turn to
21 page 33 of your evidence? That's the main evidence, not
22 the PowerPoint presentation. I just want to clarify a
23 point.

24 MR. GREG MATWICHUK: I have that, sir.

25 MR. ANTOINE HACAULT: Okay. At that

1 page, if everybody has managed to find it now, page 32 of
2 50.

3 MR. GREG MATWICHUK: Oh, 32? I thought
4 you said 33.

5 MR. ANTOINE HACAULT: Sorry, yeah, 32.

6 MR. GREG MATWICHUK: Okay.

7 MR. ANTOINE HACAULT: You quote a section
8 of the Manitoba Hydro Act, Section 39(1), and you
9 highlight (c), which starts, and I quote, "The sum that,
10 in the opinion of the Board," and you continue, and you
11 highlight the words "reserves or funds" following that
12 quote. And I'm quoting your evidence at line 31:

13 "This section appears to allow a
14 reserve or a fund to be used at the
15 discretion/direction of the capital 'B'
16 Board."

17 You haven't so indicated, but that would
18 be the Manitoba Hydro Board, correct?

19 MR. GREG MATWICHUK: That's correct.

20 MR. ANTOINE HACAULT: Okay. So you're
21 not suggesting that the issue of reserves, or the
22 direction thereof, is something that the Public Utilities
23 Board has discretion, pursuant to this particular
24 section?

25 MR. GREG MATWICHUK: I believe the

1 Manitoba Hydro Act, in the -- when it references the
2 board, it's talking about the Manitoba Hydro-Electric
3 Board.

4 MR. ANTOINE HACAULT: Thank you. The
5 next issue I just want some clarification on is page 10
6 of your slides. That's where you reference taxpayers and
7 residents. I think in your direct evidence you said that
8 they were basically one and the same. What was the --
9 the reason or the logic, or why do you think you need to
10 assimilate those two (2) different groups as one (1)
11 group?

12 MR. GREG MATWICHUK: Okay. So, first of
13 all, Mr. Hacault, this is an issue that goes back to who
14 is at risk. And when we're looking at who is at risk,
15 we're looking at those who pay the rates and those who
16 are responsible for the ownership and bear the ultimate
17 risk. And when we look at those groups there is such
18 significant overlap of those groups that they are
19 essentially the same group --

20 MR. ANTOINE HACAULT: Okay.

21 MR. GREG MATWICHUK: -- in that Manitoba
22 Hydro, it being the ubiq -- ubiquitous provider within
23 the province.

24 MR. ANTOINE HACAULT: Let me just test
25 that a little bit. You've heard one (1) of the MIPUG

1 presenters, energy intensive user, over a hundred
2 gigawatt class, general service, while that is one (1)
3 customer, one (1) client of Manitoba Hydro, would that
4 company's interests be different than, say, for example,
5 the head office of Great-West Life, which is largely
6 office space with a low power consumption?

7 MR. GREG MATWICHUK: Mr. Hacaault, I
8 believe in my evidence when I made the comparison of the
9 groups I used the word "essentially". There can be all
10 kinds of fine points that one can draw on this. And a
11 lot of those fine points, when it comes down to the rates
12 being charged to each individual group or individual
13 customer, usually finds its way through the cost
14 allocation study and the rate design.

15 MR. ANTOINE HACAULT: Okay. And you had
16 also recognized that there would be, for example, in
17 Northern Manitoba -- and I think the Vice-Chair mentions
18 this quite often, some homes are practically totally
19 hydro-electric dependent, whereas homes, for example, in
20 an urban centre such as the City of Winnipeg, that may
21 not be the case.

22 So again, there may be a difference
23 between a ratepayer in Northern Manitoba, either all-
24 electric or in a diesel community, rather than in an
25 urban centre.

1 MR. GREG MATWICHUK: Yes, and I'm -- and
2 again, I'm sure there are fine points across that
3 spectrum, sir, but if I were to draw two (2) circles they
4 would intersect to a very large degree.

5 MR. ANTOINE HACAULT: Okay. Is there any
6 evidence in Manitoba that residents generally are at risk
7 to have to pay a Manitoba Hydro debt

8 MR. GREG MATWICHUK: Well, res --
9 residents generally are the ones who are -- to whom the
10 shareholder is ultimately answerable. So they feel the
11 impact of the Manitoba Hydro decisions through the
12 government ownership, and whether it's payment directly,
13 whether it's a distribution that is received by the
14 government from Manitoba Hydro, those all -- and -- and
15 what risks the provinces face, those all are felt through
16 -- through being a resident and -- and being a taxpayer.

17 MR. ANTOINE HACAULT: Maybe I didn't put
18 that directly enough. If Hydro has increased revenue
19 requirements, we don't go see taxpayers for that, we go
20 see ratepayers based on the rate schedules, correct?

21 MR. GREG MATWICHUK: That's right.

22 MR. ANTOINE HACAULT: Okay.

23 MR. GREG MATWICHUK: Yeah.

24 MR. ANTOINE HACAULT: Now I'd like to
25 take you to your rate stabilization reserve example, or

1 illustration. And to do that could you please turn to
2 Table 3 which, as I understand, a critical table in that
3 analysis. It's at page 16. So page 16 of your evidence,
4 Table 3.

5 MR. GREG MATWICHUK: I'm there.

6 MR. ANTOINE HACAULT: And the other item
7 which is kind of a new document based on that table, as I
8 understand it, is in your PowerPoint presentation at
9 pages 45 and 46, 45 is a table.

10 MR. GREG MATWICHUK: Forty-five?

11 MR. ANTOINE HACAULT: Yeah.

12 MR. GREG MATWICHUK: Is that the table
13 that you're suggesting is new?

14 MR. ANTOINE HACAULT: Oh, at page -- at
15 page 45 Mr. Williams indicated -- indicated that that
16 kind of -- section of the evidence was new. The -- for
17 example, page 46. I think it's the first time we see an
18 illustration of how that might be implemented.

19 MR. GREG MATWICHUK: Okay. So -- so just
20 for --

21 MR. BYRON WILLIAMS: And just for
22 clarity, just -- and Mr. Hacault -- and please pose your
23 questions as you wish.

24 MR. ANTOINE HACAULT: Yeah.

25 MR. BYRON WILLIAMS: Page 45 would be on

1 the record already. And in terms of page 46, that
2 particular illustrative page would not be, and I hope
3 that assists.

4

5 CONTINUED BY MR. ANTOINE HACAULT:

6 MR. ANTOINE HACAULT: Okay. Thank you.
7 Now, first with respect to the table at page 16. If I go
8 to the first line, which is 2001, which IFF is the source
9 of those funds -- or those numbers?

10 MR. GREG MATWICHUK: This -- these
11 numbers came a result of a request by CAC/Manitoba --
12 CAC/MSOS to Manitoba. So for actual, it was -- and I
13 guess -- sorry, yes, for both. It was from CAC/MSOS-
14 125(b).

15 MR. ANTOINE HACAULT: Okay. I'll maybe
16 try to explain the context of -- I'm trying to understand
17 how this might work. So, for example, the 2001 numbers,
18 did they come out of IFF-1999, out of IFF-2000, out of
19 IFF-2001? What's the source document? Because part of
20 what you're saying is that they didn't forecast the
21 export revenue correctly so we need to have some kind of
22 a mechanism to deal with that. So I'm trying to -- to
23 see which IFF, to your understanding, is the source of
24 the line that you've marked as 2001.

25 MR. GREG MATWICHUK: Just bear with me,

1 sir. I'll pull up that.

2

3 (BRIEF PAUSE)

4

5 MR. GREG MATWICHUK: Pardon me, sir,
6 while I pull this up.

7

8 (BRIEF PAUSE)

9

10 MR. ANTOINE HACAULT: I think the witness
11 said he was trying to pull up CAC/MSOS Manitoba Hydro 1 -
12 - 125. It's referenced at the footnote 28 at the bottom
13 of the page.

14 MR. GREG MATWICHUK: I -- I found it.
15 And the IFF is indicated on that response.

16 MR. ANTOINE HACAULT: Okay, so for the
17 forecast export revenue in Table 3 for the year 2001 what
18 is the IFF? Is it 1999, 2000, or 2001?

19 MR. GREG MATWICHUK: The response shows
20 it as 1999.

21 MR. ANTOINE HACAULT: And when in 1999 is
22 that -- does that IFF usually come out?

23 MR. GREG MATWICHUK: I -- I could check
24 the date, sir, but I -- I think it's in the early fall.

25 MR. ANTOINE HACAULT: In the fall, okay.

1 So now let's just see what kind of issues -- or I'm just
2 trying to follow through how this might work. Let's go
3 to 2004, which was the drought year. That's the year
4 where the Board found it necessary upon application to
5 increase rates.

6 MR. GREG MATWICHUK: In 2004 or in 2000 -
7 - fiscal 2005, where the rate increase was?

8 MR. ANTOINE HACAULT: Okay. Well, let's
9 start with the year ending 2004.

10 MR. GREG MATWICHUK: Okay. And we're
11 still on Table 3?

12 MR. ANTOINE HACAULT: Table 3. There's a
13 forecast export revenue of 522 million --

14 MR. GREG MATWICHUK: Correct.

15 MR. ANTOINE HACAULT: -- if I'm correctly
16 reading that table.

17 Is that correct?

18 MR. GREG MATWICHUK: Yes.

19 MR. ANTOINE HACAULT: So if I'm
20 understanding your evidence correctly, that forecast
21 would have been produced two (2) years before, probably
22 in November or so of 2002?

23 MR. GREG MATWICHUK: That's what the IR
24 response seems to indicate.

25 MR. ANTOINE HACAULT: Okay. Following

1 through what your example is. Now I'm -- subject to
2 check, I'm suggesting to you that under another
3 interrogatory, by April 2003 Manitoba Hydro knew that its
4 energy in storage was down to four point two (4.2) which
5 was lower than usual. And the highest energy in storage
6 that year was seven point five (7.5), again, lower,
7 because it was -- we were getting into the drought
8 situation.

9 They would be revising forecasts and
10 sometimes producing more than one (1) IFF in some extreme
11 circumstances. Which IFF do we follow under your model?

12 MR. GREG MATWICHUK: Well, and it's a
13 very good question and here is my response to that, sir,
14 is that in those early years in -- of the first decade of
15 -- of this century, there weren't GRAs before this Board.
16 2004 going forward there were.

17 Based on what we're seeing lately it's --
18 seems like a reasonable expectation that there will be
19 GRAs on somewhat more of a regular basis particularly
20 that we're going into this decade of construction. So I
21 suspect that the Board, again, wanting the best
22 information, would want to rely on the IFF that was used
23 for determining forecast rates being applied for.

24 MR. ANTOINE HACAULT: I understand what
25 the Board's going to do in its regulatory process, but

1 you're proposing some kind of a formula that says we look
2 at the variance between IFFs and actuals --

3 MR. GREG MATWICHUK: M-hm.

4 MR. ANTOINE HACAULT: -- and that seems
5 to run independently of what the Board's going to want to
6 do. Am I understanding that correctly?

7 MR. GREG MATWICHUK: No.

8 MR. ANTOINE HACAULT: So your formula
9 runs, but the Board decides whether it runs?

10 MR. GREG MATWICHUK: No, sir. The -- if
11 -- if you'd like I could try to summarize how -- how that
12 formula would work.

13 MR. ANTOINE HACAULT: Well, maybe we can
14 go to your page 45, which is an illustration, and look
15 at, for example, that drought period to see how your
16 formula would have worked in that time period where the
17 Board allowed a 5 percent increase and then I think two
18 point four (2.4) and two (2). Two point two five (2.25)
19 and two point two five (2.25). Sorry for the -- that
20 error.

21 So that -- first, before I get into that,
22 is it the intent that where you're referencing net export
23 revenue that it should be net of imports firstly?

24 MR. GREG MATWICHUK: Yes, sir. That's --
25 that's the definition that's included in the -- the

1 evidence.

2 MR. ANTOINE HACAULT: Net of water
3 rentals secondly?

4 MR. GREG MATWICHUK: What you're -- I'm
5 going to have to do is I'm going to have to turn up the
6 prospective cost of service study to walk through this
7 with you if you like.

8 MR. ANTOINE HACAULT: And -- but would
9 the third item be net of fuel costs also?

10 MR. GREG MATWICHUK: And again, if -- if
11 you want me to respond to that I'll have to turn up the -
12 - the prospective cost of service study and I'm happy to
13 do so if you like.

14 MR. ANTOINE HACAULT: As long as we get
15 the response. I just want to know -- and that can be by
16 way of undertaking if you want, given the time.

17 MR. GREG MATWICHUK: Sure, if that helps
18 you, sir, I could do that. I'd be prepared to take that
19 undertaking.

20 MR. BYRON WILLIAMS: He would, but he
21 could probably assist you in about two (2) minutes, Mr.--

22 MR. ANTOINE HACAULT: Oh, if it only
23 takes two (2) minutes, let's have --

24 MR. BYRON WILLIAMS: He's --

25 MR. ANTOINE HACAULT: -- the answer right

1 away.

2 MR. BYRON WILLIAMS: Maybe I'm
3 exaggerating his speed, but...

4 MR. GREG MATWICHUK: Okay. Gee, I turned
5 right to it. Okay. My reference point, sir, is -- is
6 page 3 of the prospective cost of service study. And in
7 my evidence I indicated the net export revenue that is
8 derived from the prospective the P -- PCOSS. And so that
9 -- that item is net of one (1), two (2), three (3), four
10 (4) -- about eight (8) items that include -- I just --
11 include some of the items that you talked about.

12 MR. ANTOINE HACAULT: Thank you. Now,
13 turning back to page 45 of your PowerPoint presentation--

14 MR. GREG MATWICHUK: Yes.

15 MR. ANTOINE HACAULT: -- if I turn to
16 that table and I go to line 16 --

17 MR. GREG MATWICHUK: Line 16. I have it,
18 sir.

19 MR. ANTOINE HACAULT: -- and under the
20 year 2002, I see the number -- would it be \$16 million?

21 Is that correct?

22 MR. GREG MATWICHUK: Yes, that's correct.

23 MR. ANTOINE HACAULT: And am I to
24 understand, by looking at the next slide, which is slide
25 46, that in 2002, you're suggesting that there be an

1 automatic payment of 1.6 percent, and where I'm getting
2 that number from -- roughly in the hearing we've been
3 using around \$10 million for 1 percent rate increase or
4 decrease, about that. So at 16 million, the ratepayers
5 would be getting a 1.6 percent refund that year if --

6 MR. GREG MATWICHUK: Using your
7 assumptions of math, that would be approximately correct.

8 MR. ANTOINE HACAULT: Well, it's -- it's
9 your table. It's illustrative.

10 MR. GREG MATWICHUK: Well, you're --
11 you're asking me percentage, which doesn't have --

12 MR. ANTOINE HACAULT: Oh, correct. Okay.

13 MR. GREG MATWICHUK: -- and the table
14 doesn't have percentages.

15 MR. ANTOINE HACAULT: Okay. And in 2003,
16 if the -- that math works out roughly at 10 million for a
17 1 percent rate change, it would be a 5.5 percent refund,
18 is that correct?

19 MR. GREG MATWICHUK: Again, using your
20 math.

21 MR. ANTOINE HACAULT: Okay.

22 MR. GREG MATWICHUK: In broad terms, that
23 would be, subject to check.

24 MR. ANTOINE HACAULT: And in 2004, again,
25 there would be another refund, subject to math, around

1 four point four (4.4)? It may be a bit different, but
2 there would be some kind of a refund, correct?

3 MR. GREG MATWICHUK: Subject to check.

4 MR. ANTOINE HACAULT: Yes. And in 2005,
5 again, there would be some kind of a refund, according to
6 my calculations, .9 percent or around there.

7 MR. GREG MATWICHUK: Subject to check,
8 again, sir, yes.

9 MR. ANTOINE HACAULT: Okay. So tell me
10 how the Board overrides this formula when it has a GRA,
11 is hit with a -- an event or series of events or
12 circumstances in which it finds that, well, here we've
13 had a cumulative decrease over those years, if my math
14 works out more or less correctly, of over 10 percent from
15 the year 2001 to 2005.

16 MR. GREG MATWICHUK: When you say
17 cumulative decrease, a -- you're talking about a --

18 MR. ANTOINE HACAULT: Refund.

19 MR. GREG MATWICHUK: -- a rider, a refund
20 rider that would go to customers?

21 MR. ANTOINE HACAULT: Yes.

22 MR. GREG MATWICHUK: And, again, using
23 your broad math, subject to check.

24 MR. ANTOINE HACAULT: So how does the
25 Board and everybody kind of deal with that, then?

1 Because the Board's trueing-up at each GRA. Residential
2 customers will have had refunds in each of those years,
3 correct --

4 MR. GREG MATWICHUK: The illustration
5 shows --

6 MR. ANTOINE HACAULT: -- from 2001?

7 MR. GREG MATWICHUK: -- when -- now, when
8 you said residential customers, this isn't --

9 MR. ANTOINE HACAULT: Oh, sorry.

10 MR. GREG MATWICHUK: -- limited to
11 residential.

12 MR. ANTOINE HACAULT: Domestic customers.

13 MR. GREG MATWICHUK: Correct.

14 MR. ANTOINE HACAULT: I used the wrong
15 word.

16 MR. GREG MATWICHUK: Yes.

17 MR. ANTOINE HACAULT: Domestic customers
18 will have received a refund in each of the years 2002,
19 2003, 2004 and 2005, correct?

20 MR. GREG MATWICHUK: That's correct.

21 MR. ANTOINE HACAULT: And in the
22 circumstances, the Board found it appropriate to actually
23 increase rates by 5 percent, and then two (2) further
24 increases of two point two five (2.25) on each occasion.
25 So in addition to doing that, they would have to reverse

1 the effect of this formula, because, in addition, the
2 Company would have needed to generate another 16 million
3 in this example, 55 million, 44 million and 9 million.
4 They -- they wouldn't have that money, would they?

5 MR. GREG MATWICHUK: I'm sorry, I'd have
6 to disagree with your proposition, sir. The Company has
7 already earned that money, and that's why this -- this
8 has been set up, is that this -- this arises from export
9 revenues that were actually earned in excess of the
10 exports that were used to forecast the rates for domestic
11 customers.

12 MR. ANTOINE HACAULT: So is your point,
13 even if they earn export revenue, but show a net loss,
14 which we saw a huge net loss, that Hydro still has to
15 refund money in a year where it has one (1) of its big --
16 biggest losses ever?

17 MR. GREG MATWICHUK: Sir, maybe we're
18 talking at cross-purposes here, but let me try to clarify
19 for you.

20 This mechanism is independent of the rate-
21 setting process. So there would be GRAs and the GRAs, as
22 Mr. McCormick walked through the -- the forecasting
23 process, the GRA process, and as I mention in my
24 presentation, the revenue requirement process, the rates
25 would be set the same -- in a similar fashion that

1 they're always set in a GRA.

2 This would act as a deferral account
3 whereby there would be the excess of export revenue --
4 and the definition it -- there is one (1) proposed, and
5 the Board may -- may choose another definition, but the
6 excess of the actual exports over what was forecast --
7 because you'll recall that the forecast amount is what's
8 in the rates, so that excess would then be put into,
9 essentially, a deferral account and amortized over five
10 (5) years. And whatever the net result is of the -- each
11 annual year's amortization would be either a refund or a
12 recovery from customers that would be separate from any
13 rate change that would be authorized in a GRA.

14 MR. ANTOINE HACAULT: So on the bill the
15 customer would see rate stabilization credit, a little
16 bit like what you've put on page --

17 MR. GREG MATWICHUK: That --

18 MR. ANTOINE HACAULT: -- 46.

19 MR. GREG MATWICHUK: -- that -- that is
20 one (1) -- one (1) suggestion that it be a -- a separate
21 line item. And the reason, Mr. Hacault, just to help you
22 out with that, is that across Canada, across North
23 America, utilities have been migrating towards more
24 detailed, itemized bills. So in keeping with that, the
25 suggestion here was that that be a separate line item.

1 MR. ANTOINE HACAULT: And in 2004, where
2 the actual export revenue was so low because of the
3 drought and they had these huge losses, then according to
4 your table there would be shown on their hydro bill,
5 forty-four (44) -- whatever that comes to if it's 4.4
6 percent --

7 MR. GREG MATWICHUK: M-hm.

8 MR. ANTOINE HACAULT: -- refund out of
9 this rate stabilization in a year of drought?

10 MR. GREG MATWICHUK: Again, sir, the --
11 the refund associated with this is independent of the
12 rate setting that may go on in a GRA year.

13

14 (BRIEF PAUSE)

15

16 MR. ANTOINE HACAULT: And so, in effect,
17 in some way, and it may be just my interpretation of it,
18 the Board would kind of pre-approve a rate refund or a
19 rate surcharge formula which would operate independently
20 of its own GRA?

21 MR. GREG MATWICHUK: Yes. Mr. Hacault,
22 maybe this could help you, is that there could be a
23 separate proceeding in writing. And this is -- this is a
24 common type of process with other regulated entities --
25 is that a mechanism like this is pretty automatic,

1 there's nothing really complicated, not a whole lot of
2 judgment that is required other than the amounts that
3 have to go into it, and those would be set based on the
4 parameters that are approved by the Board.

5

6 (BRIEF PAUSE)

7

8 MR. ANTOINE HACAULT: So using the
9 numbers, and I don't know how to best describe this
10 conceptually, but in 2003 we hit a higher degree of
11 refund or rate stabilization using my numbers, 5.5
12 percent. Then the consumers bill would actually go up in
13 the following year because the refund is less.

14 So if you had a hundred dollars that you
15 had to pay and in 2003 you had 5.5 percent rate
16 stabilization or refund, you'd take off the hundred
17 dollars, the five point five dollars (\$5.5), in that
18 mathematical formula, leaving you with ninety-four (94)
19 and some dollars to pay.

20 If you're -- you've got a bill in 2004 of
21 a hundred dollars, the reduction is 4.4 percent, so your
22 bill is actually increasing.

23 Is that correct?

24 MR. GREG MATWICHUK: Mr. Hacault, I guess
25 -- I -- I want to be responsive to your -- your question,

1 and the -- and I think maybe the best way is to do it
2 this way. Is that, again, because this is separate and
3 apart from the GRA process, these are -- these are relief
4 amounts that arise from a deferral account that may and
5 will likely change from year to year, so, yes, they will
6 go up and down.

7 But, again, these types of deferral
8 accounts and the disposition of the deferral accounts,
9 which are usually handled through riders, do have an up
10 and down effect, slight up and down. We're not talking
11 massive because, to use your earlier examper -- example,
12 Mr. Hacault, in 2004, when -- or even 2003 or 2004, when
13 there was the serious drought and Manitoba Hydro had
14 suffered a loss in that year, rather than simply taking
15 the -- the variance for export revenues and plopping that
16 into the very next year, this mechanism is suggesting
17 that they be amortized so that they are smoothed out over
18 a reasonable period.

19 So there is a transition between making
20 sure that those who are responsible, who were --
21 customers who were in existence at the time of the event,
22 received the benefit in a fairly short period.

23 MR. ANTOINE HACAULT: And -- and that may
24 cause -- because of the inflexibility, I'm suggesting,
25 there's two (2) models. Either you leave the PUB, in its

1 discretion, to decide how it's going to deal with stable
2 rates over the long-term. That's one (1) option, right?
3 They can look at the drought and say, Well, I'm not going
4 to burden Manitobans with a hundred percent of that in
5 this hearing. I'm going to stabilize rates. That's one
6 (1) option, correct?

7 MR. GREG MATWICHUK: There -- there are
8 many options --

9 MR. ANTOINE HACAULT: Okay.

10 MR. GREG MATWICHUK: -- and certainly
11 that is one (1) of them.

12 MR. ANTOINE HACAULT: And -- and this
13 option, where I was getting at with my numbers, is that
14 this hundred dollar bill would have increased from
15 ninety-four point five (94.5) to ninety-five point six
16 (95.6) to close to ninety-nine dollars (\$99). And when
17 it increased up to ninety-nine dollars (\$99) they would,
18 in addition to that, be hit with the increases that the
19 Board gave, so there would be two (2) sets of increases.
20 That's how it would have worked out under this example.

21 Manitobans would have seen their bill
22 increased from ninety-five (95) -- or ninety-four (94),
23 ninety-five (95), up to ninety-nine (99) on a hundred
24 dollar bill. And in addition to that, they would be
25 faced with the increases that the PUB would be hitting

1 them with.

2 Is that correct?

3 MR. GREG MATWICHUK: So, Mr. Hacault, the
4 -- the response to that is, again, there -- as I
5 mentioned before, there are changes year to year that
6 they would take place independent of what the Board may
7 decide and whether there is a increase or no -- no change
8 in rates from a GRA or a rate decrease as a result of a
9 GRA, but the types of changes that we're talking about
10 here, when it gets down to the rate level, I wouldn't
11 expect that they would be significant to cause concern to
12 individual ratepayers.

13 MR. ANTOINE HACAULT: Well, that's your
14 judgment. A 5 percent number on a bill for some
15 ratepayers might be considered important for somebody
16 who's got 85 percent of his production costs and
17 electricity rates, seeing rates raised by 5 percent might
18 cause that person concern, correct?

19 MR. GREG MATWICHUK: But -- but, Mr.
20 Hacault, the -- the issue is is that what the ratepayer
21 received from the year before is a refund. And so there
22 is a direct responsibility tie to the entitlement of the
23 export change. Now, if the Board -- as you say, the
24 Board can op -- optimize it in its view in terms of
25 discretion, and can say we are going to modify the rider

1 in -- in some instance.

2 This -- this particular rider provides for
3 the mechanics of how it works and also it is consistent
4 with how these types of riders work in utilities, other
5 utilities.

6 MR. ANTOINE HACAULT: My only other
7 question or point, sir, is: This formula is based on a
8 Hydro IFF which hasn't been tested. So, consumers will
9 either get refunds or, I guess, conversely charges.

10 Is that correct, because it works both
11 ways?

12 MR. GREG MATWICHUK: Sorry, it's your --
13 your proposition at the beginning that I -- or premise at
14 the --

15 MR. ANTOINE HACAULT: Okay.

16 MR. GREG MATWICHUK: -- that I had a
17 little trouble with. An IFF that wasn't tested?

18 MR. ANTOINE HACAULT: Okay. Let's take
19 it one (1) bite at a time.

20 MR. GREG MATWICHUK: Yeah.

21 MR. ANTOINE HACAULT: In your formula at
22 page 46 you show a credit.

23 MR. GREG MATWICHUK: Yes.

24 MR. ANTOINE HACAULT: Correct. Export
25 revenue normalization?

1 MR. GREG MATWICHUK: Yes, sir. And that
2 -- and that's a placeholder for administrative purposes.

3 MR. ANTOINE HACAULT: Okay. So that is
4 in the situation where Manitoba Hydro underestimates the
5 export revenues --

6 MR. GREG MATWICHUK: Used to determine
7 rates.

8 MR. ANTOINE HACAULT: -- used to
9 determine rates.

10 MR. GREG MATWICHUK: Correct.

11 MR. ANTOINE HACAULT: And I'll put to you
12 if there's a couple years where Hydro overestimates, does
13 that mean the ratepayers have to pay? So, on their Hydro
14 bill, based on Hydro overestimating, the ratepayers would
15 automatically, under this formula, have to pay an extra
16 amount on their Hydro bill?

17 MR. GREG MATWICHUK: Well, as you can see
18 from my pic -- Slide number 45 that you referred to,
19 which is my response to PUB/CAC/MSOS-22, that with --
20 with the number of years and the amortization of five (5)
21 years, you're going to get a mix of under forecasting
22 likely. And the -- and a mix together with a mix of over
23 forecasting.

24 And so it isn't going to be necessarily a
25 dependence on one (1) particular year or two (2)

1 particular years, because you're going to have an
2 amortization over five (5) years, therefore, typically
3 you'll have a mix of five (5) years of positive variances
4 and maybe a negative variance given that, as we've seen
5 on the record, a drought is expected once every ten (10)
6 years.

7 MR. ANTOINE HACAULT: But you see, sir,
8 your co-presenter complained that Hydro was over
9 estimating interest costs.

10 What if Hydro takes a policy of over
11 estimating revenue. If it -- if it wants to have and
12 play -- I shouldn't say play the game, because that's --
13 that's a bit strong of a word, but it -- through an IFF
14 Hydro could over estimate export revenues and guarantee
15 itself a rate increase through your rate stabilization if
16 it did that on a cont -- consistent basis?

17 MR. GREG MATWICHUK: Well, I have a tough
18 time with that proposition as well, Mr. Hacault, because
19 as you know the IFF comes to this Board and the Board
20 look -- looks at the export revenue -- looks at the
21 export revenue --

22 MR. ANTOINE HACAULT: But that isn't
23 necessarily so, sir, the IFFs do not get tested --

24 MR. BYRON WILLIAMS: Mr. Hacault, if
25 you'll let Mr. Matwichuk answer your question and then

1 ask another one (1), you're welcome to.

2 MR. GREG MATWICHUK: And -- and the Board
3 -- the -- the current -- the current standard as I
4 referenced earlier is the median water flows that the
5 export revenues are based on. Now, I recognize there are
6 a lot of other factors that go into export revenue, but
7 in -- and, sir -- what we're doing, sir, here is we're
8 going to the next step.

9 Is that typically IFFs will be examined
10 before this Board. Now if there is no GRA, then that
11 brings us to -- the question is: What forecast amount
12 should be used, and whether we should have amortization
13 in a non-test year? And I think that -- that's an issue
14 that we need to further explore as to whether we should
15 be use -- relying on an IFF that is -- is tested, or
16 whether we rely on all IFFs each and every year.

17 I suspect that the best approach is to
18 rely on IFFs that are approved, and then the rider remain
19 in place until the next GRA.

20

21 CONTINUED BY MR. ANTOINE HACAULT:

22 MR. ANTOINE HACAULT: So is -- your
23 recommendation is that we don't use your formula unless
24 the Board has had the opportunity to scrutinize and
25 approve the IFF?

1 MR. GREG MATWICHUK: Well, let's not call
2 it a formula, sir. This -- this is -- this is not a
3 formula. This is a structure of how to deal with
4 deferral accounts, and there are many ways to gather the
5 costs in a deferral account and many ways to dispose of a
6 deferral account.

7 So, you could estimate -- you've got the
8 variance amount, and you can amortize the year -- the
9 first year's variance, and then, in the second year, when
10 there is no -- let's take your example. I think this is
11 where you're heading. If there was no test year, then
12 you could amortize the -- the test year variance and keep
13 amortizing that test year variance ag -- or until you
14 have the next GRA.

15 Now, again, with this particular entity,
16 my suspicion is that you're going to see fairly regular
17 GRAs, given that they're going into a decade of
18 construction. MR. ANTOINE HACAULT: Could you just
19 indicate to me, sir, the source in Table 3 of the actual
20 export revenue? Is that using the PCOSS method also?

21 MR. GREG MATWICHUK: The actual export
22 revenue? I believe I have it footnoted, sir. It's
23 CAC/MSOS/MHI-25B.

24 MR. ANTOINE HACAULT: Perhaps my question
25 wasn't clear. Is it intended that you use a PCOSS

1 method?

2 MR. GREG MATWICHUK: Oh, you -- you asked
3 me for the source, so.

4 MR. ANTOINE HACAULT: Yeah, the source
5 first, and -- and is it intended that you use a PCOSS
6 method for actual export revenue?

7 MR. GREG MATWICHUK: That's my suggestion
8 at this stage, is that we use the net export revenue that
9 is developed through the PCOSS, and you and I talked
10 about it. It was itemized on page 3.

11 MR. ANTOINE HACAULT: Would it make a
12 difference, sir? It's my understanding that Manitoba
13 Hydro doesn't use an actual PCOSS method in determining
14 actual export revenue.

15 MR. GREG MATWICHUK: Yeah, and -- and
16 this is an -- an element that has to be developed and
17 refined, and it's a matter of what data's available, what
18 data the Board feels most comfortable should be provided,
19 because they may -- the Board may decide that Manitoba
20 Hydro should provide that on an actual basis.

21 If there -- if there is another method of
22 determining net export revenue that best fits the risk
23 profile and the reward quantification, then -- then that
24 -- that should be examined.

25 MR. ANTOINE HACAULT: So it's your view

1 that the PCOSS is sufficiently robust to use for this
2 purpose, then, for the purpose of actual export revenue,
3 that function?

4 MR. GREG MATWICHUK: It is a -- an
5 example of what might be used, and without being
6 definitive, I didn't go into particularly investigate
7 whether that is the definitive method, as you mention.

8 If Manitoba Hydro doesn't have this number
9 on an actual basis, we certainly have to have a meeting
10 of the minds as what we can provide on both a forecast
11 and an actual basis.

12 MR. ANTOINE HACAULT: Have you addressed
13 your mind at all to whether -- what parts of the rate
14 structure this percentage gets applied to? Is it energy
15 demand? Is it fixed charges? What does it get applied
16 to?

17 MR. GREG MATWICHUK: No, we haven't
18 developed it that far, sir.

19 MR. ANTOINE HACAULT: Thank you very
20 much, you've been very helpful. Thank you, Mr.
21 McCormick, also. Those are all my questions.

22 THE CHAIRPERSON: Thank you, Mr.
23 Hacault.

24 Mr. Peters, we're going to go Mr. Boyd --
25 Ms. Boyd now.

1 I'm wondering if you'd like five (5)
2 minutes before we start?

3 MS. MARLA BOYD: I would appreciate that,
4 thanks.

5 THE CHAIRPERSON: Or would you like
6 longer than five (5) minutes?

7 MS. MARLA BOYD: I think five is probably
8 adequate. Thank you.

9 THE CHAIRPERSON: Okay.

10

11 --- Upon recessing at 4:42 p.m.

12 --- Upon resuming at 5:02 p.m.

13

14 THE CHAIRPERSON: Ms. Boyd...?

15

16 CROSS-EXAMINATION BY MS. MARLA BOYD:

17 MS. MARLA BOYD: Thank you. Good
18 afternoon, or almost good evening. It seems like every
19 time I talk to Mr. McCormick it's late at night, so I'm
20 not sure what that means about the time we take to do
21 this.

22 I'm gong to start, actually, where Mr.
23 Hacault left off with Mr. Matwichuk, if that's
24 acceptable.

25 Dealing with the rate stabilization

1 reserve that you -- you discussed, do you envision a cash
2 reserve to provide a fund for that RSM?

3 MR. GREG MATWICHUK: No.

4 MS. MARLA BOYD: How would you envision
5 that that money would be allocated or set aside?

6 MR. GREG MATWICHUK: I -- it's not a
7 setting aside money issue; it's a deferral account, and
8 it would be financed the same way Manitoba Hydro finances
9 any of -- any other part of its operations.

10 MS. MARLA BOYD: So you indicated in your
11 evidence that one (1) of the advantages of this fund was
12 that retained earnings was not cash.

13 And in that sense this fund wouldn't be
14 any different than retained earnings?

15 MR. GREG MATWICHUK: That's right. This
16 is -- this is not a cash fund.

17 MS. MARLA BOYD: Way back this morning,
18 in discussing the variance of export revenues, you
19 indicated that there was a 22 percent average variance in
20 export revenues. And you were referring to the -- the
21 graph that's after slide 5 of your presentation if you
22 need a reference.

23 Do you recall that?

24 MR. GREG MATWICHUK: Yes.

25 MS. MARLA BOYD: I noted in looking at

1 page 16 of your pre-filed evidence that you've indicated
2 a 10 percent variance in export revenue.

3 MR. GREG MATWICHUK: Yes, the 10 percent
4 -- and I'm glad you pointed that out -- the 10 percent is
5 a net variance. And when I looked at it again and sought
6 advice from statistical experts they said I should really
7 do it on a absolute value basis. So when I do it on an
8 absolutely value basis it's at 22 percent, and basically
9 it's showing the -- the variance -- from one (1) end of
10 the variance to the other.

11 MS. MARLA BOYD: It's an absolute value
12 of what?

13 MR. GREG MATWICHUK: Sorry, absolute
14 value.

15 MS. MARLA BOYD: Of -- but --

16 MR. GREG MATWICHUK: That's a
17 mathematical function.

18 MS. MARLA BOYD: Yeah. Oh, so -- I'm
19 sorry. I'm --

20 MR. GREG MATWICHUK: Yeah.

21 MS. MARLA BOYD: -- you're saying it's a
22 variance from -- what's your percentage calculated on, is
23 what I'm --

24 MR. GREG MATWICHUK: Yes.

25 MS. MARLA BOYD: -- trying to get at?

1 MR. GREG MATWICHUK: Okay. So if you
2 look at that column, Ms. Boyd, the final percent vari --
3 variance column, the --

4 MS. MARLA BOYD: You're looking at page
5 16 of your evidence.

6 MR. GREG MATWICHUK: Page 16 --

7 MS. MARLA BOYD: Okay.

8 MR. GREG MATWICHUK: -- Table 3, yes. So
9 the twenty (20) -- it's twenty (20) -- you start with the
10 numbers of 22 percent, 48 percent, those are the absolute
11 values as well. The negative 10 percent, the absolute
12 value of te -- negative 10 percent is 10 percent.

13 MS. MARLA BOYD: Thank you. I -- I
14 understand your math.

15 If I could ask you to turn past slide 5 of
16 your presentation today; there's graphs that aren't
17 numbered. The third one in is one titled, "Compare
18 Export Revenue Variances to Refund/Recovery Under
19 Recommended RSM."

20 MR. GREG MATWICHUK: Let me just catch up
21 to you.

22 MS. MARLA BOYD: Sure.

23 MR. GREG MATWICHUK: Which one are we
24 looking at, sorry?

25 MS. MARLA BOYD: It's -- the last page

1 numbered before it is page 5. Then there's three (3)
2 graphs, so it's the third one: "Compare Export Revenue
3 Variances to Refund Recovery Under Recommended RSM."

4 MR. GREG MATWICHUK: Yes.

5 MS. MARLA BOYD: It's got the red and the
6 blue lines, for --

7 MR. GREG MATWICHUK: Yes.

8 MS. MARLA BOYD: -- others in the room.

9 MR. GREG MATWICHUK: I'm with you now.
10 Thank you.

11 MS. MARLA BOYD: Based on that graph and
12 looking at the period between 2003 and 2004, it appears
13 that Manitoba Hydro would be refunding money to
14 customers, that being the blue line, while coping with a
15 significant drought, being the red line, correct?

16 MR. GREG MATWICHUK: There -- the way
17 this would work, is that there would be a refund during
18 that timeframe if -- if that -- if this was in place
19 during that timeframe, yes, and it's jus -- just like
20 Manitoba Hydro was able to obtain a billion dollars of
21 debt during its worst financial timeframe, yes.

22 MS. MARLA BOYD: You would expect that
23 that would exacerbate an already difficult financial
24 circumstance?

25 MR. GREG MATWICHUK: I would see it as

1 they're able to obtain financing of a billion dollars,
2 and this would be a drop in the bucket relative to the
3 billion dollars.

4 MS. MARLA BOYD: It would be something in
5 the order of 10 percent?

6 MR. GREG MATWICHUK: I see it in the
7 order of 5 percent for 2003.

8 MS. MARLA BOYD: And this is over two (2)
9 years, 2003/2004?

10 MR. GREG MATWICHUK: So it'd be 5 percent
11 each year.

12 MS. MARLA BOYD: A total of 10 percent, a
13 hundred million dollars?

14 MR. GREG MATWICHUK: No. Well, I guess
15 if you're -- you're mixing apples and oranges because
16 you're combining two (2) years of rebates with one (1)
17 year of financing, so I'm -- I'm having trouble with your
18 proposition.

19 MS. MARLA BOYD: You're suggesting we
20 would refund in 2003, \$50 million, if I'm looking at the
21 little square on the blue line, correct?

22 MR. GREG MATWICHUK: Yes.

23 MS. MARLA BOYD: And in 2004, we're just
24 under \$50 million dollars?

25 MR. GREG MATWICHUK: That's right.

1 MS. MARLA BOYD: So that's a hundred
2 million dollars total?

3 MR. GREG MATWICHUK: That's a hundred
4 million total.

5 MS. MARLA BOYD: Over the two (2) year
6 period?

7 MR. GREG MATWICHUK: Over the two (2)
8 year period.

9 MS. MARLA BOYD: And at the same time,
10 according to the red lines, we're experiencing export
11 revenues than are lower than those that were forecast?

12 MR. GREG MATWICHUK: Correct.

13 MS. MARLA BOYD: In one (1) case by 50
14 million, and in the other case by about 175 million?

15 MR. GREG MATWICHUK: Okay.

16 MS. MARLA BOYD: Those are the two (2)
17 dots on the red lines.

18 Am I correct there?

19 MR. GREG MATWICHUK: Yes.

20

21 (BRIEF PAUSE)

22

23 MS. MARLA BOYD: You suggested that
24 Manitoba Hydro was in a position to borrow a billion
25 dollars, and, therefore, this extra wouldn't be a

1 problem, correct?

2 MR. GREG MATWICHUK: That it wouldn't --
3 it wouldn't be a significant amount relative to the
4 billion dollars.

5 MS. MARLA BOYD: Okay. And I'm
6 suggesting that a hundred million is 10 percent of a
7 billion.

8 MR. GREG MATWICHUK: And your hundred
9 million is from where?

10 MS. MARLA BOYD: Fifty million plus fifty
11 million, the two (2) blue dots.

12 MR. GREG MATWICHUK: Relative to the
13 billion dollars that we're talking about?

14 MS. MARLA BOYD: That you just
15 referenced, yes.

16 MR. GREG MATWICHUK: Yes. So, again, I'm
17 having difficulty with your proposition, because you're
18 talking about borrowing -- that the financing that took
19 place in one (1) year, and then you're comparing that to
20 a refund in two (2) years.

21 MS. MARLA BOYD: I thought that was your
22 point, that we were able to borrow money.

23 MR. GREG MATWICHUK: Yes. And so you're
24 able to borrow money in -- in the worst year, so I assume
25 you're -- Manitoba Hydro's able to borrow in the year

1 that's not the worst year. So whatever -- whatever the
2 finance -- and we can look it up if you'd like, in terms
3 of the proceeds from debt that came from each of the two
4 (2) years; a billion from one (1) year, and I'm not -- I
5 can't recite what it was from the other year, but I can
6 look it up.

7 MS. MARLA BOYD: Suffice to say it would
8 be necessary for us to borrow an extra hundred million
9 dollars over the two (2) years?

10 MR. GREG MATWICHUK: Yes.

11 MS. MARLA BOYD: Thank you.

12 MR. GREG MATWICHUK: Yeah.

13 MR. ROBERT MAYER: I note with interest,
14 Ms. Boyd, that when we get back to the -- to what really
15 happened, we appear to have given you the 5 percent
16 before you had a significant loss. It would appear that
17 way at least from the -- the chart immediately prior to
18 the one we were just discussing.

19 MS. MARLA BOYD: I -- I don't have all
20 the figures in front of me, but I -- I suspect that that
21 may be something we'll have to deal with, and I'm not
22 sure your assertion is correct.

23

24 CONTINUED BY MS. MARLA BOYD:

25 MS. MARLA BOYD: Mr. Matwichuk, if I

1 could turn you to page 35 of your presentation today.

2

3

(BRIEF PAUSE)

4

5 MS. MARLA BOYD: I'm sorry, are you
6 there?

7

MR. GREG MATWICHUK: Yes.

8

9 MS. MARLA BOYD: Thank you. You noted
10 that the difference between the actual cumulative net
11 income from 2005 to 2010 was \$777 million. And you
12 compared that with the actual accumulative export revenue
13 for the period 2001 to 2009.

14 Did you look at or compare the cumulative
15 net income for the 2001 to 2009 period? I'm wondering
16 why the dates are different.

17 MR. GREG MATWICHUK: Thank you. And I --
18 yes, the answer is that the data wasn't available on the
19 record.

20 MS. MARLA BOYD: Would you accept that,
21 subject to check if you like, that the net income impact
22 of that period, 2001 to 2009 is \$174 million variance?

23 MR. GREG MATWICHUK: Well, I -- I -- I
24 guess I'd like to see what documents are being used for
25 that.

MS. MARLA BOYD: And assuming for a

1 moment that it's \$174 million, that would be a 1 percent
2 variance of total revenue, or 2 percent based on domestic
3 revenue over that nine (9) year period?

4 MR. GREG MATWICHUK: Sorry, could you put
5 that proposition to me again, please?

6 MS. MARLA BOYD: Sure. Assuming my \$174
7 million variance over the nine (9) year period, 2001 to
8 2009, that would amount to approximately 1 percent
9 variance in total revenue, or a 2 percent variance if you
10 were to base that only on domestic revenue.

11 MR. GREG MATWICHUK: And we're talking
12 about net income here?

13 MS. MARLA BOYD: Over that same period.
14 Yes.

15 MR. GREG MATWICHUK: Yeah. If we're
16 simply talking about net income, I'll accept your math,
17 subject to check.

18 MS. MARLA BOYD: Thank you. Thank you,
19 Mr. Matwichuk.

20 MR. GREG MATWICHUK: Thank you.

21 MS. MARLA BOYD: Mr. McCormick, I'll
22 apologize in advance, I have little snappers that are all
23 over the place, so I'll do my best to -- to tell you
24 where I'm going. I wanted to start with your comment
25 today relating to the Centra Gas proceeding. And you

1 said at least once and maybe more than once that Centra
2 didn't provide you with the source of its interest rate
3 forecast data. And you took issue with that in terms of
4 the disclosure that was available to you.

5 I'm looking at CAC/MSOS/CENTRA-2-156,
6 which was filed in the same application which you've
7 suggested that the source data was not provided. It was
8 filed on June the 3rd of 2009, and it provides the source
9 data for the -- the -- the interest rate forecast.

10 Is that something you may have overlooked
11 in your testimony today?

12 MR. JOHN MCCORMICK: My recollection is
13 that I filed my evidence in May. And the IRs occurred
14 earlier. The CAC-1-1M, to which I referred, asked for
15 the source documents. It said:

16 "Please identify and supply copies of
17 the source document."

18 And we were then referred to CAC/Centra-
19 2/C for a description of how forecast rates were devised.

20 CAC- 2/C said:

21 "Provide copies of the economic or
22 financial forecasts relating to the
23 matter, and particularly identify the
24 4.05 percent average banker's
25 acceptance rate."

1 And the answer there was:

2 "The short-term forecast rate is set by
3 initially considering data for ninety
4 (90) day T-bill rates from independent
5 forecasters and major Canadian banks.
6 A spread is then added to reflect the
7 thirty (30) day T -- [pardon me], the
8 ninety (90) day T-bill rate and the
9 three (3) months banker's acceptance
10 rate."

11 And then there was a later period where
12 after PUB-2/198 was asked that we received additional
13 information. But as I was asked to prepare my evidence,
14 those documents had not been filed.

15 MS. MARLA BOYD: So do I understand you
16 that you received the source document subsequent to your
17 evidence, but not that you didn't receive it at all?

18 MR. JOHN MCCORMICK: Ultimately, it was
19 put on the record. It was put onto the record very late
20 in the proceeding. And it was put on after the
21 Intervenors had an opportunity to analyse it. So, yes,
22 ultimately we did receive the information. It was
23 available at the time the Board made its decision, but
24 not when I was preparing evidence.

25 MS. MARLA BOYD: And in this proceeding,

1 you've received the source data in PUB Manitoba Hydro 1-
2 46C, correct?

3 MR. JOHN MCCORMICK: I have seen various
4 IRs; I don't know what source data's contained in 1-46C,
5 but I have seen evidence that has been filed and the
6 source documents for the 2009 forecasts, in some respect,
7 but I don't believe that there was any particular
8 difficulty in this case in getting the information,
9 although some of the information, which was apparently
10 used in the forecast, was stale dated, in my view.

11 MS. MARLA BOYD: So the source data was
12 critical to you in the Centra GRA, you didn't actually
13 look at in the Hydro GRA?

14 MR. JOHN MCCORMICK: I'm sorry, I -- I
15 would not have looked at two (2) year old forecasts in
16 the Centra GRA in assessing an opinion in the Hydro GRA.

17 MS. MARLA BOYD: That wasn't my question.

18 MR. JOHN MCCORMICK: Could you say your
19 question again, please?

20 MS. MARLA BOYD: Yes. The source data
21 which you considered critical in the context of the
22 Centra GRA and which you thought was so important that
23 you needed to raise it with the Board today, is the same
24 data that the current version for the Manitoba Hydro GRA
25 was provided in the First Round in this GRA, and you

1 didn't look at it.

2 MR. JOHN MCCORMICK: No, I have looked at
3 a host of IRs. I have looked at the documents that were
4 provided from the various bank forecasts. I'm unable to
5 confirm what IR number they were in.

6 MS. MARLA BOYD: Or what the data was, is
7 what you told me initially.

8 MR. JOHN MCCORMICK: I don't remember
9 what was in PUB-146 that you referred to. I have,
10 though, satisfied myself with respect to an improvement
11 in your forecast methodology as a result of seeing the
12 various matters placed on the record.

13 MS. MARLA BOYD: You also suggested
14 today, and I believe it's in your earlier responses, that
15 -- that you've recently learned that Manitoba Hydro's
16 policy with respect to floating-rate debt only applies at
17 the year end, and you've suggested that that may result
18 in mischief, correct?

19 MR. JOHN MCCORMICK: It has the potential
20 to result in mischief.

21 MS. MARLA BOYD: Are you aware that
22 Manitoba Hydro has not gone outside of the 15 to 25
23 percent floating-rate debt range in any quarter since
24 March of 2004?

25 MR. JOHN MCCORMICK: No. I'm only aware

1 of quarter-end data. I don't know what they've done in
2 between the quarters, where --

3 MS. MARLA BOYD: That was my question,
4 was with respect to any quarter since March of 2004?

5 MR. JOHN MCCORMICK: Since March of 2004,
6 I don't believe they've been outside the 15 to 25 percent
7 at any quarter end. I'm unfamiliar with dates taking
8 place in the quarters.

9 MS. MARLA BOYD: And you would find that
10 information, for the record, at CAC/MSOS Manitoba Hydro
11 1-46D.

12 MR. BYRON WILLIAMS: Ms. Boyd, just so
13 I'm clear, the information you're referring to is quarter
14 end dates, not the -- the -- is that what you're meaning
15 to suggest?

16 MS. MARLA BOYD: I'm referring to the
17 material filed at Manitoba -- CAC/MSOS Manitoba Hydro 1-
18 46D, yes.

19

20 CONTINUED BY MS. MARLA BOYD:

21 MS. MARLA BOYD: Mr. McCormick, given the
22 variability in interest rates, do you agree that there's
23 a greater interest rate risk associated with a five (5)
24 year floating-rate debt versus a five (5) year fixed-rate
25 debt?

1 MR. JOHN MCCORMICK: There is greater var
2 -- variability in terms of interest rate risk. If you
3 equate variability with risk, yes, but in terms of the
4 floating rate, one has the reward often of the shorter-
5 term floating-rate DA-base type instruments as providing
6 you with a significant advantage in terms of total
7 interest cost.

8 So, yes, there will be more frequent rate
9 resets on a five (5) year basis on a floating-rate
10 instrument than there will be on a fixed-rate instrument,
11 but the ultimate financial cost may be lower.

12 MS. MARLA BOYD: Turning to slide 5 of
13 your presentation, I'm looking at the last bullet on the
14 page. You've suggested that adoption, or partial
15 adoption, of your Recommendation number 1 would bring
16 about a \$5 million consumer savings in 2010/'11 alone.

17 Can you confirm, please, that that \$5
18 million doesn't include the offsetting impact of interest
19 capitalization?

20 MR. JOHN MCCORMICK: While I generally
21 deal in cash interest, I recognize that your financial
22 expense will have a number of items in it including
23 capitalized interest related to capital projects.

24 MS. MARLA BOYD: And can you also confirm
25 that the \$5 million is calculated based on the BA flat as

1 opposed to adding any spread for the financial market?

2

3

(BRIEF PAUSE)

4

5

MR. JOHN MCCORMICK: Can I take you to
6 page 10 of my evidence, please.

7

MS. MARLA BOYD: I'm sorry, do you mean
8 your pre -- your pre-filed evidence?

9

10

MR. JOHN MCCORMICK: Yes, my pre-filed
evidence.

11

MS. MARLA BOYD: Okay.

12

13

MR. JOHN MCCORMICK: In the table that
begins beneath line 16, I created an example of interest
14 rates saving against the assumed fixed rates for the
15 revenue period that was remaining and noted that some
16 \$1.8 billion of debt was intended to be taken out in
17 2009/'10 through 2011/'12. And I've used for the long-
18 term fixed rates the five twenty (520) and the four point
19 six-five (4.65) as an example. The four point six-five
20 (4.65) was not the forecast rate, but was in fact
21 developed off one (1) of the recent issues that is shown
22 on the prior page, the FK-2 issue as being a
23 representative rate. And I identified there a full year
24 interest cost, again, ignoring any minor adjustments that
25 might be required for the issue being sold at a price

1 other than par.

2 So we're dealing with essentially nominal
3 interest rates. And I'm ignoring, perhaps the five (5)
4 basis point cost of funds that might be relevant there.

5 I then compare that to a 1.7 percent
6 floating rate assumption. And that 1.7 percent also
7 comes from the previous page where I took the average
8 inferred rate from two (2) recent financing series one
9 (1) -- pardon me, C-107, and series FM-4, which were done
10 at BA's plus forty (40) or BA's plus forty-eight (48) and
11 resulted in a rate that averaged one point seven (1.7).

12 I then subtracted the fixed minus floating
13 amount which gave me a 2.95 percent difference. And
14 taking 25 percent of the 800 million of debt, and a 2.95
15 percent spread arrived at approximately 5.9 million of
16 interest savings. So if that helps you understand the --
17 the nature of the calculation, you would have 5 million.

18 Now, of course, because the markets have
19 changed today and the IFO-10, I -- I believe has a
20 forecast floating rate of 1.10, the savings on 25 percent
21 of those 800 million would be 3.55 percent, as opposed to
22 the 2.95 you see. And of course, the savings would be
23 greater, but in terms of structure that was the nature or
24 the type of the calculation that I developed and referred
25 to to support the bullet that you see on the slide under

1 Recommendation 1.

2 MS. MARLA BOYD: I've asked your counsel
3 to have available to you Manitoba Hydro Exhibit 109, and
4 CAC Exhibit 20.

5 MR. BYRON WILLIAMS: Mr. McCormick has
6 those. And we thank you, Ms. Boyd, for the courtesy in
7 providing them.

8

9 CONTINUED BY MS. MARLA BOYD:

10 MS. MARLA BOYD: Thank you. I have
11 provided to the Board secretary copies of Manitoba Hydro
12 Exhibit 109. I did not have at hand copies of Exhibit
13 CAC-20. Mr. Singh, if you're able to make those
14 available as well, CAC-20.

15

16 (BRIEF PAUSE)

17

18 MS. MARLA BOYD: We're looking for CAC
19 Exhibit 20, please.

20

21 (BRIEF PAUSE)

22

23 MS. MARLA BOYD: I'm sorry, I probably
24 should have had copies available. I -- I don't intend to
25 be really in-depth with them, so perhaps we can try it

1 without CAC Exhibit 20. And if it becomes necessary,
2 I'll -- I'll make copies.

3

4 (BRIEF PAUSE)

5

6 CONTINUED BY MS. MARLA BOYD:

7 MS. MARLA BOYD: Okay. Mr. McCormick,
8 Mr. Schulz, in his testimony at pages 5,159 through 5,160
9 of the transcript, indicated that Manitoba Hydro
10 considers, and I quote:

11 "The full bandwidth of possible
12 experience. And the original thinking
13 for us is that if we're going to be
14 looking at thirty (30) year bonds
15 looking forward, that it seems more
16 representative to look at thirty (30)
17 years going back in time."

18 That would be contrasted with the yield-
19 curve data that was produced by CAC/MSOS Exhibit 20,
20 which went back to 2002, correct?

21 MR. JOHN MCCORMICK: Clearly one (1) was
22 ten (10) years, the other was thirty (30) years, but the
23 point of producing the data may have been different.

24 MS. MARLA BOYD: Would you acknowledge
25 then in the context of the last thirty (30) years of the

1 yield-curve experience, which you can see in Manitoba
2 Hydro Exhibit 109, that long-term interest rates are
3 currently at historical lows?

4

5 (BRIEF PAUSE)

6

7 MR. JOHN MCCORMICK: Counsel, may I have
8 your question again, please?

9 MS. MARLA BOYD: Certainly. I was
10 looking at Manitoba Hydro Exhibit 109, and asked that you
11 acknowledge that in the context of the last thirty (30)
12 years of yield-curve experience the long-term interest
13 rates are currently at historical lows.

14

15 (BRIEF PAUSE)

16

17 MR. JOHN MCCORMICK: Yes, but in
18 accepting that, I think it important that we take a look
19 at how rapidly that judgment may change. And I refer you
20 to CAC/MSOS 1-148, which was also provided, where we have
21 the long-term curve showing the very ugly spike which
22 occurred, I think in March of 1982.

23

24 So to the extent that we are driven by an
25 analytical period that begins in the worst spike in my
data sources, which go back to 1919, yes, we have had the

1 worst time -- sorry, we have had the lowest periods since
2 March of 1982 -- sorry, yes, March 1982.

3 So absolutely. Unfortunately, Manitoba is
4 not restricting itself to merely 30-year securities. I
5 believe you're now going out and doing maturities that go
6 out as far as 2063. So if one were only to focus in on
7 forty (40) -- thirty (30) years in doing the average,
8 you'll get a very different result than you would if you
9 did twenty-eight (28) years on this chart.

10 And you'd get a very different result if
11 you went out however many years sixty-three (63) was
12 because of the low rates. So yes, we are at a low,
13 relative to a period which you have chosen that
14 arbitrarily has the worst spike in long-term memory.

15 MS. MARLA BOYD: You'd also acknowledge
16 that short-term interest rates have in the past thirty
17 (30) years been at levels far higher than the current
18 long-term fixed interest rates?

19 MR. JOHN MCCORMICK: Yes, I would
20 acknowledge that. And one (1) of the high points again
21 was the '78 to '82 period which we've discussed.

22

23

(BRIEF PAUSE)

24

25 MS. MARLA BOYD: If I could refer you to

1 page 39 of your presentation today.

2

3 (BRIEF PAUSE)

4

5 MS. MARLA BOYD: This is the graph of
6 maturities that was taken from your response to
7 PUB/CAC/MSOS 101.

8 Can you confirm, please, that that depicts
9 maturities grouped on a calendar-year basis?

10

11 (BRIEF PAUSE)

12

13 MR. JOHN MCCORMICK: That is my memory,
14 yes.

15 MS. MARLA BOYD: You're aware that
16 Manitoba Hydro has a fiscal year that ends on March 31st
17 not December 31st?

18 MR. JOHN MCCORMICK: I am aware of that.

19 MS. MARLA BOYD: Are you also aware that
20 if your graph had been prepared on a fiscal year basis
21 that the year ending 2018 would have had \$530 million in
22 maturities as opposed to the 1.06 -- 86 million?

23 MR. JOHN MCCORMICK: I have not done that
24 calculation, but with respect to the information that
25 we've just touched on in CAC 1-148, where we have the

1 spike, regretfully the spikes don't occur to be
2 restricted to any twelve (12) month period.

3 They may, in this particular case have
4 gone on for some four (4) years. So while I am quite
5 willing to accept that your question is certainly
6 reasonable that -- in using a calendar-year basis, there
7 may be instances where a particular calendar year has
8 more or less impact than another, to put a billion
9 dollars or more of debt within a twelve (12) month
10 period, whether it begins in June or December, or an
11 eighteen (18) month period in light of the spike that
12 you're referring me to is not in my mind a material
13 issue.

14 MS. MARLA BOYD: You mentioned a couple
15 answers ago that you were now aware that Manitoba Hydro
16 has debt maturities extending out to 2063, correct?

17 MR. JOHN MCCORMICK: I believe that's the
18 greatest maturity.

19 MS. MARLA BOYD: And your graph doesn't
20 include those maturities. It only goes to 2044?

21 MR. JOHN MCCORMICK: Because I believe
22 there are only four (4) years of maturities in the
23 nineteen (19) years that were available or in that time
24 period, and they were relatively small maturities based
25 on the date of the graph. I wanted to condense the

1 graph.

2

3

(BRIEF PAUSE)

4

5 MS. MARLA BOYD: I take it you're aware
6 of the importance of considering refinancing risk when
7 determining a prudent level of floating-rate or shorter-
8 date fixed-rate debt to carry in a debt portfolio?

9 MR. JOHN MCCORMICK: I am aware that
10 financing risk is related to short-term debt. Clearly,
11 it would be a factor that one would consider.

12 MS. MARLA BOYD: Did you make a
13 distinction between short-term and floating in your
14 answer?

15 MR. JOHN MCCORMICK: I -- I only spoke
16 with respect to short term. Short-term and floating are
17 the category which I understand Hydro lumps together in
18 determining the 16.6 percent, or the 21.85 percent. And
19 so, in terms of the shorthand, I was referring both to
20 short-term debt and floating-rate in my answer.

21 MS. MARLA BOYD: And with the floating
22 rate or shorter-term -- or shorter-dated fixed-rate debt,
23 there's more refinancing points in the debt-stream term,
24 and therefore increased financing risk?

25 MR. JOHN MCCORMICK: I'm sorry, can you

1 repeat the question again?

2 MS. MARLA BOYD: Sure. I didn't do it
3 very well. With the floating-rate or shorter-term fixed-
4 rate debt, there's more refinancing points during the
5 debt-stream term?

6 MR. JOHN MCCORMICK: Yes, there are, but
7 there are tools available to assist us in meeting the
8 refinancing risk. And -- and, if I may, I -- I note
9 there's a very large organization that, in anticipation
10 of a program to significantly address a large number of
11 its future financing issues, has gone out and taken a
12 total of \$2 billion of fixed-rate term debt issuances
13 under hedging arrangements that set the average
14 government bond rate at 4.4 percent. So there are tools
15 to handle the risk on the upside.

16 We've already spoken of the activities of
17 people like Emera who will have caps or collars built
18 around their short-term debt. So while there are risks,
19 there are ways of dealing with them, and in periods where
20 we have had both declining long-term rates and very low
21 short-term rates, there have been opportunities that I
22 think have been missed.

23 MS. MARLA BOYD: The interest caps that
24 you speak of come with a premium, correct?

25 MR. JOHN MCCORMICK: They do.

1 MS. MARLA BOYD: Typically, an upfront
2 cost?

3 MR. JOHN MCCORMICK: Yes.

4

5 (BRIEF PAUSE)

6

7 MS. MARLA BOYD: If I could ask you to
8 turn to page 25 of your presentation, please. Do you
9 have it?

10 MR. JOHN MCCORMICK: I'm there, thank
11 you.

12 MS. MARLA BOYD: Can you confirm your
13 understanding that Manitoba Hydro utilizes the three (3)
14 month Government of Canada T-bill rate for its Canadian
15 short-term interest rate benchmark?

16 MR. JOHN MCCORMICK: Yes.

17 MS. MARLA BOYD: And that's different
18 than the three (3) month Bank of Canada BA rate included
19 on your graph?

20 MR. JOHN MCCORMICK: In fact, the graph
21 has the one (1) month Bank of Canada BA rate because that
22 is the item that was identified in the rebuttal evidence
23 that I relied on to formulate this graph.

24

25 (BRIEF PAUSE)

1 MS. MARLA BOYD: Can you also confirm
2 your understanding that Manitoba Hydro utilizes the
3 average of Government of Canada ten (10) and thirty (30)
4 year data to derive a ten (10) plus -- a ten (10) year
5 plus forecast?

6 MR. JOHN MCCORMICK: That is my
7 understanding, yes.

8 MS. MARLA BOYD: And can you also confirm
9 your understanding that Manitoba Hydro does not forecast
10 a ten (10) year interest rate?

11 MR. JOHN MCCORMICK: I'm sorry, it
12 doesn't forecast a ten (10) year --

13 MS. MARLA BOYD: Ten (10) year.

14 MR. JOHN MCCORMICK: -- Canada rate?

15 MS. MARLA BOYD: Interest rate. Manitoba
16 Hydro uses ten (10) -- ten (10) years plus in its
17 forecasts, not ten (10) years?

18 MR. JOHN MCCORMICK: The reason why I'm
19 pausing is there were some instances that I recall in the
20 Centra case where there was confusion as to whether
21 Canada ten (10) or Canada ten (10) plus was being used in
22 Hydro's analysis, but I do understand that, generally,
23 the long-term rate that is forecast is a ten (10) year
24 plus rate.

25

1 (BRIEF PAUSE)

2

3 MS. MARLA BOYD: Mr. McCormick, just in
4 terms of confirming something that I believe I heard you
5 say earlier today, is it your understanding that Manitoba
6 Hydro's board of directors can change the provincial debt
7 guarantee rate?

8 MR. JOHN MCCORMICK: It is my
9 understanding, quite the contrary, that they cannot. It
10 would require the province to determine this, and I -- if
11 I wasn't clear when I was making remarks on the subject
12 of the guarantee, my comment was related to the fact that
13 the guarantee was one (1) of the costs of the -- the full
14 interest costs of borrowing for Hydro, but that I
15 understood it outside both the power of the Board to
16 modify and the power of Hydro to modify unilaterally.

17 MR. ROBERT MAYER: For your information,
18 I understood the same thing as -- as counsel did in one
19 (1) of your responses, and in fact we made a note of it
20 up here, that nobody gets to vary that particular amount,
21 or at least nobody in this building.

22 MR. JOHN MCCORMICK: Then I misspoke,
23 sir, because my understanding is quite clear that it's
24 beyond this Board and the unilateral action of the
25 Company to adjust that guarantee fee.

1 CONTINUED BY MS. MARLA BOYD:

2 MS. MARLA BOYD: Thank you, Mr.
3 McCormick, Mr. Matwichuk. Thank you. Those are Hydro's
4 questions.

5 THE CHAIRPERSON: Thank you very much,
6 Ms. Boyd. Well, Mr. Peters, to you goes the honour of
7 the -- I should say Mr. Williams will have the last word
8 with his redirect. You could proceed now, sir.

9 MR. BOB PETERS: Yes, thank you, Mr.
10 Chairman.

11

12 CROSS-EXAMINATION BY MR. BOB PETERS:

13 MR. BOB PETERS: I propose to start with
14 Mr. McCormick, since he's already warmed up and -- in his
15 answers to my colleague. I will do my best not to
16 duplicate any of them, sir.

17 Can the Board understand your evidence,
18 Mr. McCormick, to be indicating that Hydro should be
19 required to either update its interest rate forecasts in
20 this proceeding, or, alternatively, establish a deferral
21 account? It's an either/or proposition, in your
22 evidence?

23 MR. JOHN MCCORMICK: No, sir. I would
24 not think that is the case. I think Hydro should be
25 presenting an update because interest rates have changed

1 so dramatically in the last little while, and interest
2 rate forecasts are now materially less than they were at
3 the time IFF-09 has happened, and I think the update
4 should also include the actual financing, which we have
5 part of the information on in what I believe is PUB 135.

6 But I think this Board is entitled to
7 excellent information to determine, either we will allow
8 this interest based on this forecast as part of the
9 revenue requirement, or to decide that because of the
10 problems of forecasting they wish to go further and say,
11 We never wish to hear Mr. McCormick again, and we would
12 enjoy, therefore, instituting his interest deferral
13 mechanism so that we never have to.

14 MR. BOB PETERS: And the update forecast,
15 if the Board turns to page 44 of your PowerPoint
16 presentation this afternoon, you're suggesting that's the
17 updated information, to the best that was available
18 certainly at the time you prepared the -- the PowerPoint
19 presentation?

20 MR. JOHN MCCORMICK: Clearly, the annual
21 averages that I've given you for the fiscal year are the
22 best information that was available for those from Bank
23 of Canada sources. In recognition that Hydro uses a
24 Bloomberg CDOR index as opposed to the Bank of Canada
25 three (3) month BA, there are some minor -- two (2) or

1 three (3) basis point variances that may creep in because
2 of the way the data is established.

3 With respect to the three (3) month T-
4 bill, annual average, again, that is, in my mind, the
5 best available information and it won't change. We --
6 what we don't have -- what I have not offered you is the
7 annual average for the first portion of the '11/'12 year.
8 We're now in June, so we've had a fair bit of that year
9 already, and in terms of the ten (10) year and long
10 Canada benchmark, the information there, again, for the
11 '10/'11 financial year is, I think, as good as you're
12 going to get. But we don't have the historic average for
13 the last few months of this time period, nor do we have
14 up-to-date forecasts for the broader number of
15 forecasters that are friends that Hydro would use.

16 MR. BOB PETERS: Can the Board understand
17 your recommendation to be to do that update whether --
18 whether the interest rates have increased or decreased in
19 the real world?

20 MR. JOHN MCCORMICK: Yes.

21 MR. BOB PETERS: And that is simply
22 because of the duration of this hearing?

23 MR. JOHN MCCORMICK: No, I believe the
24 Board is entitled to good information wherever it's
25 making its decision. If the hearing lasted three (3)

1 months from the date that we had the first forecast, I
2 would suggest it wouldn't hurt to find out whether
3 something material has happened in the world.

4 MR. BOB PETERS: And because of the data
5 you say is missing, you're not able to provide the Board
6 any estimate of the fina -- of the im -- impact of any
7 such update on the finance expenses filed?

8 MR. JOHN MCCORMICK: I -- I hate to
9 appear disagreeable, sir, but if one would turn to the
10 later section, I believe I did provide you with bank
11 forecasts from five (5) banks of two (2) of the three (3)
12 series that might have proved helpful.

13

14 (BRIEF PAUSE)

15

16 MR. JOHN MCCORMICK: I think page 45 and
17 46 of my presentation would provide information that
18 would be helpful to the Board. And page 45, looking at
19 three (3) month T-bill rates, I've given you five (5)
20 forecasts that suggest the then-current thinking of the
21 banks that I had at my disposal would have given us a 1.5
22 percent forecast rate for the forthcoming year.

23 And for the ten (10) year, not the ten
24 (10) year plus rate, I didn't do the thirty (30) year
25 table, I have given you a number of about 3.6 percent for

1 the ten (10) year. Clearly there would be some -- a few
2 basis points that might be added to the ten (10) year to
3 get to a ten (10) year plus based on the recognition that
4 thirty (30) year debt, if that's what we're averaging in,
5 is a little bit more than ten (10) year.

6 And were you to flip to the slide 48 you
7 would see that on May 27th on a Manitoba-specific basis
8 we have the difference between 3.86 percent for the ten
9 (10) year rate and four point three eight (4.38) on the
10 Government of Canada basis. We have a forty-two (42)
11 basis point difference between ten (10) and thirty (30).

12 So in terms of order of magnitude, I would
13 suggest to you that we might add twenty (20) basis points
14 to the number, but it -- I haven't done the full
15 calculation, but based on that one (1) day's data point,
16 we're not going to double the ten (10) year rate to get
17 to a ten (10) plus rate because there isn't that much
18 difference between the ten (10) year and thirty (30) year
19 Canada forecast rates.

20 MR. BOB PETERS: You're saying it's still
21 before -- still below 4 percent?

22 MR. JOHN MCCORMICK: That would be my
23 expectation, but I haven't done the calculation.

24 MR. BOB PETERS: All right. And when I
25 asked you to quantify, I didn't mean in -- just in terms

1 of the percentages, which you've given us, I meant in
2 dollars -- dollars and cents on the -- on the IFF
3 statement of the Utility. Did you do the calculation for
4 --

5 MR. JOHN MCCORMICK: I have not done such
6 a calculation.

7 MR. BOB PETERS: Before we leave your
8 presentation on page 49, which we're close to, I may as
9 well ask you now, is the thrust of your putting in the
10 slide at page 49 to suggest that Manitoba Hydro is not
11 getting value for its 1 percent provincial debt guarantee
12 fee?

13 MR. JOHN MCCORMICK: No, sir, I don't
14 believe I would take that position. But in terms of the
15 value, which I haven't attempted to measure, the
16 information that I draw from this slide causes me to
17 believe that the benefits of the financing through
18 Manitoba, the province, are moderated by this fee. And
19 it's perfectly open to an owner to wish to extract
20 dividends or ownership rights from his investment.

21 Frankly, I don't care how he does it.
22 From my standpoint, you could have a completely different
23 capital structure and a higher or lower guarantee fee.
24 But the thing that is of interest to me is the amount of
25 costs that are being passed through to the consumers.

1 purposes for the next revenue requirement, which I assume
2 is not part of this case, but will in a future GRA be
3 there. As I've described it, it's a promise of great
4 things to come in the future. I'd just like it to start
5 now.

6 MR. BOB PETERS: I think the Board's got
7 your point. But I -- just on the point of the 20 percent
8 in the IFF-10, it's your further point that that should
9 be up to maybe closer to 27 percent?

10 MR. JOHN MCCORMICK: I suggest that the
11 25 to 27 percent range to reflect shortness of term on
12 the long-term issues and note programs among other
13 things.

14 MR. BOB PETERS: So while IFF-10 has an
15 improvement it's not enough and it's not early enough?

16 MR. JOHN MCCORMICK: Yes.

17

18 (BRIEF PAUSE)

19

20 MR. BOB PETERS: And by way of example,
21 you're telling the Board that if the Board went to the 20
22 percent floating rate, there could be savings in the
23 order of magnitude of 5.7 million in '10/'11 and as much
24 as 7.8 million in '11/'12?

25 MR. JOHN MCCORMICK: I think those

1 numbers radically understate the savings that would be
2 there because the forecasts for rates -- for floating
3 rate have dropped. My memory was three point eight (3.8)
4 was the intended rate for '11/'12 at one (1) point. And
5 if I'm suggesting it's one point five (1.5), the
6 multiplier is now much larger.

7

8 (BRIEF PAUSE)

9

10 MR. BOB PETERS: Can you just verify the
11 three point eight (3.8) number and the -- and the -- the
12 updated number while you're looking at your materials?

13 MR. JOHN MCCORMICK: Well, the updated
14 number I think we've just spoken about in terms of the
15 forecasts for the T-bills.

16

17 (BRIEF PAUSE)

18

19 MR. JOHN MCCORMICK: So I'm looking at
20 the base case, fiscal page, page 7 of the spring 2009
21 economic outlook, which I believe is one (1) of the
22 documents that drives the revenue forecast. And the
23 ninety (90) day T-bill rate forecast is 3.8 percent on
24 that page.

25 MR. BOB PETERS: Appreciate the source

1 and your checking that, sir. When we get to independent
2 forecasters or the forecasting methodology, your
3 criticism has been that the Board, in looking at Hydro's
4 forecast, does not know whether the forecasters have a
5 robust forecasting methodology.

6 Would you agree with that?

7 MR. JOHN MCCORMICK: I think my criticism
8 is the subset of forecasters they have used do not seem
9 to be demonstrated to be the best at having that robust
10 contribution to the methodology.

11 MR. BOB PETERS: And to bring your point
12 home, on page 26 of your written pre-filed evidence you
13 have a chart of the different forecasts?

14 MR. JOHN MCCORMICK: I do.

15 MR. BOB PETERS: So, who do you vote off
16 your island?

17 MR. JOHN MCCORMICK: Well, again, let's
18 be clear that I was dealing with a small sample of data
19 and Hydro has been in the business of coming up with
20 forecasts for a long period of time and will have a
21 longer list of data available to it.

22 But in terms of who I would vote off the
23 island, if you'd flip to page 27, I would vote off
24 everybody except for National and Scotia because of the
25 sample that I took and played around with, back-of-the-

1 envelope effort, I got the lowest variance from reality
2 by choosing those two (2) forecasters.

3

4

(BRIEF PAUSE)

5

6 MR. BOB PETERS: You qualified your
7 answer to me, sir, to indicate that while it was, in your
8 words, the back of the envelope, it maybe didn't have the
9 time duration and the -- the data points that you would
10 want to make a final decision.

11 Would that be fair?

12 MR. JOHN MCCORMICK: Yes, sir, I'd like
13 to have somebody who came up with a good track record.
14 Similarly, it may be possible to say the ultimate is that
15 we'll use Desjardins rated at 20 percent and Scotia and
16 National Bank rated at 40 percent, and that removes the
17 error down to zero.

18 But, if you read the discussion on the --
19 page 26 in the last line, the averaging methodology that
20 I used ended up with a two (2) basis point error over
21 this time period, which is pretty darn good. They were
22 too low in the beginning and too high at the end, but in
23 terms of coming up with what would have been the base
24 that we should use to underscore our floating rate
25 instruments, a two (2) basis point error would be

1 heavenly.

2 MR. BOB PETERS: It's not a matter of
3 just having two (2) forecasters. It's a matter of having
4 them within the -- within the range of -- of the plus or
5 minus, as you say, two (2) basis points in terms of
6 error?

7 MR. JOHN MCCORMICK: Well, if we could do
8 that regularly I'd want to be following their
9 recommendations completely, but in terms of structure, we
10 have a whole list of people available. On page 28 of my
11 evidence we list a number of people who are available
12 either on Bloomberg or in the consensus estimates and,
13 therefore, somewhere are publishing estimates.

14 And, frankly, somewhere in there we have
15 somebody who is the best forecaster. I think either in
16 my evidence or IRs I noted that the Bank of Montreal had
17 won some award for its forecasting prowess in the last
18 little while. But rather than just say, I will pick
19 people whose names begin with consonants, I'd much rather
20 we actually sat down and saw who was doing a good job.

21 MR. BOB PETERS: We've got your point on
22 that. I just want to clarify one (1) point that I think
23 Ms. Boyd was working with you on, was the forecast credit
24 spread on short-term debt was based on the difference
25 between the ninety (90) day T-bill and the three (3)

1 month Bloomberg BA, and that was over a ten (10) year
2 average, right?

3 MR. JOHN MCCORMICK: I'm not sure I
4 follow you, sir. We can do a credit spread today between
5 BAs and treasury bills.

6 MR. BOB PETERS: Well, you used the ten
7 (10) year average to forecast short-term spreads for the
8 twenty (20) years out to 2030, as I understood your
9 evidence?

10 MR. JOHN MCCORMICK: Well, what I did do
11 was take ten (10) years of data that was available from
12 the Bank of Canada and use it in -- in an example. I
13 think I've generally taken the position that one is
14 unwise to use ten (10) years of data to forecast twenty
15 (20) or thirty (30) year time periods because you're
16 missing something.

17 But to the extent that I believe that we
18 should take slavishly a thirty (30) year data period to
19 forecast thirty (30) years of interest rate -- or
20 interest rates on a thirty (30) year instrument, no, I
21 can't go there, because frankly there are data anomalies,
22 and if we have the data, would it be better to go back to
23 1919 and really cover all our bases.

24 MR. BOB PETERS: The point I was trying
25 to get to was that there were two (2) years in that ten

1 (10) year period in which you, I think referred to it as
2 significant turmoil representing the economic downturn,
3 correct?

4 MR. JOHN MCCORMICK: Oh, are you
5 referring to the chart that I used to describe the period
6 before and after the National Bank financial analysis?

7 MR. BOB PETERS: Yes.

8 MR. JOHN MCCORMICK: Thank you.

9

10 (BRIEF PAUSE)

11

12 MR. JOHN MCCORMICK: Thank you, sir. I
13 now have it before me. May I have your question again?

14 MR. BOB PETERS: Well, just -- let's --
15 let's talk about the -- the -- the two (2) years in which
16 there was a significant turmoil that you identified.

17 You were referring to the economic
18 downturn, correct?

19 MR. JOHN MCCORMICK: Well, there were
20 several periods and I don't particularly recall referring
21 to the economic downturn which happened in mainly 2008.
22 But in terms of the National Bank Financial's choice of a
23 data period from April 2005 to April 2009, that's one (1)
24 of the factors that is special in that time period.

25 The other factor that is special in that

1 time period is that seventeen (17), I think of the forty-
2 eight (48) months, were either a very flat or inverted
3 yield curve. And I think it was completely inverted in
4 seventeen (17). If you like I'll check my data.

5 But that's not normal. And if a -- an
6 unusual period is driving your analysis, let's say the
7 four (4) years surrounding the 1982 spike, you're going
8 to get some very interesting results in your forecast,
9 because you've taken a -- an anomalous data period.

10 MR. BOB PETERS: In which case you would
11 use subjective judgment to -- to change your forecast or
12 change the period in which you would base your forecast?

13 MR. JOHN MCCORMICK: Well, sir, I would
14 use professional judgment and determine -- to one (1)
15 extent I'm in agreement with Manitoba Hydro that three
16 (3) years and four (4) years -- three (3) years, an
17 example I used, and four (4) years the period National
18 Bank Financial used are not adequate, in my mind, to do
19 the better job in the analysis of the fixed and floating
20 rate optimal solution.

21 MR. BOB PETERS: Thank you, Mr.
22 McCormick.

23 Mr. Matwichuk, as I understood your
24 evidence, you have a view that there is a asymmetric risk
25 tolerance between Hydro and the domestic ratepayers?

1 MR. GREG MATWICHUK: I think, Mr. Peters,
2 I referred to it as a potential asymmetric risk
3 tolerance.

4 MR. BOB PETERS: Can you provide an
5 example to the Board of what you were referring to?

6 MR. GREG MATWICHUK: I think, sir, the --
7 the asymmetric risk tolerance that I was referring to is
8 reference to the Kubursi and Magee evidence, first of
9 all. And second of all, it is related to whether
10 Manitoba Hydro -- and this -- and again, I'm reflecting
11 on potential, is whether Manitoba Hydro is in the best
12 interest of ratepayers to move ahead with a \$16.5 billion
13 expansion at this time.

14 And -- and in reflecting on that, it's --
15 whereas in prior years the US market, in particular, had
16 significant potential demand. There was economic
17 development going on in the MISO territory. And
18 currently, that kind -- that level of activity is not
19 taking place. We note that there -- the great almost
20 general strike type in -- scenario in Wisconsin.

21 We -- there may be -- Mr. McCormick
22 referred to where -- I think it was in relation to a
23 question from Mr. Mayer in terms of where the world
24 economy may be going in the future, and I -- I
25 interpreted his remarks that, at best, maybe sideways.

1 MR. BOB PETERS: Thank you.

2 MR. GREG MATWICHUK: That's one (1)
3 example.

4 MR. BOB PETERS: Yes. And in -- in terms
5 of the quantum of export revenues that come before the
6 Board in their GRAs and their IFFs, is it your suggestion
7 to this Board that they drill down to the various
8 components of each of the forecasts, or does the Board
9 simply accept them from the Corporation's best efforts
10 regardless of what they are in the IFF?

11 MR. GREG MATWICHUK: Are we -- and your
12 question was in the context of the export revenues?

13 MR. BOB PETERS: Only the export
14 revenues.

15 MR. GREG MATWICHUK: Yes. And -- and I
16 guess I would suggest that the Board conduct its scrutiny
17 of the export revenues the way it normally would in a
18 GRA. And -- and then there could be an issue with
19 respect to non-GRA years, and -- and I've got some
20 suggestions in that regard.

21 MR. BOB PETERS: Well -- well, that's
22 where I was going, because you talked, I think, with My
23 Friend, Mr. Hacault about that. In a non-GRA year for
24 the rate stabilization mechanism to work, it needs an
25 input number in terms of the variance between forecast

1 and actual.

2 And what do you suggest the Board do in
3 those non-GRA years?

4 MR. GREG MATWICHUK: Well, I think, Mr.
5 Peters, there are -- there are some alternatives, and
6 there are going to be pros and cons to these
7 alternatives. And as I reflected on Mr. Hacault's
8 question, I roughed out some alternatives and, if I may,
9 I'll -- I'll try to describe them, but it -- it goes much
10 to the -- the detail that would take place akin to the
11 illustrative mechanism that we -- where we walk through
12 the numbers with -- with the Board members previously.

13 But if you -- if you like, I can try to
14 put some parameters around them.

15 MR. BOB PETERS: Well, briefly, if you
16 could, please.

17 MR. GREG MATWICHUK: Okay. One (1)
18 alternative is that the variances, the amortization, and
19 the rider are determined only in the test years, and so
20 there would be no variance estimation in the te -- non-
21 test year. So that's -- that's one (1) example.

22 And, like I say, there -- there are
23 mechanics that we could work through, but I don't want to
24 unnecessarily use the Board's time, but I have tried to
25 map these out. Another alternative would be that the

1 variances and the resulting rider updates are only in the
2 test year, but we continue the amortization each and
3 every year, so there's -- there's no variance in a non-
4 test year.

5 The third alternative is that the
6 variances and the amortization and the rider are updated
7 each year, and that's using an IFF that may -- including
8 those that are tested in a GRA and those that may exist
9 in a non-test year.

10 I'm -- I'm suggesting that the third
11 alternative has a fair number of inferiorities,
12 particularly as it would stand relative to having an IFF
13 that would not be tested.

14 MR. BOB PETERS: Sorry, could you repeat
15 your last answer -- or your last --

16 MR. GREG MATWICHUK: The last
17 alternative?

18 MR. BOB PETERS: -- your last
19 alternative, yeah.

20 MR. GREG MATWICHUK: Yes, the variances
21 in the amortization and the rider updates would be done
22 each year regardless of whether there's a GRA. So in
23 non-test years, there would be -- amortization would take
24 place just as -- as the illustrative example indicated
25 whether there was a test year or a non-test year. And so

1 the ri -- the riders would be updated each and every year
2 but it would rely on an IFF that may not be tested.

3 And -- and I think that's a -- in terms of
4 that alternative, that is a -- a negative feature.

5 MR. ROBERT MAYER: Mr. Matwichuk, I'm --
6 I -- I was really thinking I was beginning to understand
7 what was going on here, but I sort of thought from
8 listening to your evidence that the only thing I need to
9 establish the differential is the forecast of net export
10 pricing -- net export revenue for the pre -- the -- that
11 usually comes out, I understand in the fall of the
12 previous year, and the actual net export revenue for that
13 particular year once they have the numbers in, which
14 should be sometime between March and June of the year
15 following.

16 Am I missing something here?

17 MR. GREG MATWICHUK: No, you're -- you're
18 not missing anything. And that's -- that's -- that is a
19 -- certainly a possibility, Mr. Mayer.

20 MR. ROBERT MAYER: Because I'm -- I'm
21 saying -- I'm assuming Hydro is not going to blatantly
22 lie to us, we're going to have the numbers from one (1) -
23 - the year before. We can get the numbers for the next
24 year. I don't understand why we would have to worry
25 about waiting for -- if we had a problem at the next GRA

1 and we found out we had an issue, then our rate
2 adjustment could be made. But I -- I just --

3 MR. GREG MATWICHUK: Yeah.

4 MR. ROBERT MAYER: -- don't see that --
5 why it has to be so complicated.

6 MR. GREG MATWICHUK: No, and, sir, it --
7 it doesn't. And it -- it can be that simple. It depends
8 on the Board's comfort level with the IFFs that it
9 receives each and every year, including those that would
10 come to you in a non-test year. So it really could be
11 that simple, but recognize the -- the ones in the non-
12 test year would not be tested as they are in a GRA.

13

14 CONTINUED BY MR. BOB PETERS:

15 MR. BOB PETERS: Mr. Matwichuk, on the --
16 in the terms of debt rating agencies and Manitoba Hydro
17 and the Province, is it your contention that the debt
18 rating of the Province is largely immune to the Manitoba
19 Hydro debt-to-equity ratio?

20 MR. GREG MATWICHUK: Well, when you use
21 the term "largely immune," I would turn it around, Mr.
22 Peters and say that it is not the primary consideration
23 in the debt rating of either Manitoba Hydro or the
24 Province.

25 MR. BOB PETERS: Is the interest covered

1 ratio in that same category in your view?

2 MR. GREG MATWICHUK: Yes.

3 MR. BOB PETERS: Even less so than the
4 debt/equity ratio?

5 MR. GREG MATWICHUK: Oh, I'm -- I -- I
6 don't -- I couldn't comment on that. What I would
7 comment on, sir, is that -- what I noticed in credit
8 rating reports, particularly since the financial crisis
9 of -- beginning in 2008, and I gave you a couple examples
10 of where credit rating agencies would have a far greater
11 emphasis on cash flow than earnings.

12 And I think you'll see in other credit
13 rating reports where cash flow ratios are far -- far more
14 important to the ultimate credit rating than earnings
15 ratios.

16 MR. BOB PETERS: All right. I have your
17 point and I thank you for that. Mr. Chairman, I'd like
18 to thank both Mr. Matwichuk and Mr. McCormick for their
19 answers to my questions.

20 And although Mr. McCormick doesn't want to
21 come back to Manitoba, I think we can invite him back
22 maybe next when his Calgary Flames are playing our yet to
23 be named NHL team and we can -- we can settle our
24 differences there.

25 THE CHAIRPERSON: Thank you, Mr. Peters.

1 Thank you, Mr. Matwichuk. And thank you, Mr. McCormick.

2 MR. JOHN MCCORMICK: Pardon me -- pardon
3 me, Mr. Chairman. I worry that I have given you the
4 impression that I haven't enjoyed coming here. I really
5 was only speaking to the question of regulatory
6 efficiency and would be delighted to be invited back.

7 THE CHAIRPERSON: I'm sure Mr. Peters has
8 got a few seats for the -- the game, so he should save
9 one (1) for you. And thanks also to you, Mr. Williams.
10 And I have forgotten the fact that you may want to have
11 some redirect.

12 MR. BYRON WILLIAMS: I just need to
13 consult with my client. I just want to talk with my
14 witnesses for one (1) second, Mr. Chairman.

15

16 (BRIEF PAUSE)

17

18 MR. BYRON WILLIAMS: Mr. Chairman, no re-
19 direct, but an offer. In the -- in the case that the
20 Board or others are interested, Mr. Hacault, for example,
21 are interested in the pros and cons of the three (3)
22 scenarios that Mr. -- Mr. Peters went through with Mr.
23 Matwichuk, we would certainly be happy to share that if
24 someone invited us to, but there is no re-direct, sir.

25

1 (PANEL STANDS DOWN)

2

3 THE CHAIRPERSON: Okay. Thank you, sir.
4 It's been a long but extremely interesting day. So
5 thanks again to all of you. So we're going to be back
6 tomorrow at 9:30. We still seem to be on track, we hope,
7 for getting to pre-closing remarks at some point on
8 Thursday.

9 Mr. Peters, do you want to make a few
10 comments about what lies ahead in the immediate two (2)
11 days?

12 MR. BOB PETERS: Yes, sir. In terms of
13 tomorrow, we are scheduled to hear from CAC/MSOS witness,
14 Mr. Carter, and Mr. Williams will lead him in the morning
15 and he'll be open to cross-examination. We have some
16 rough estimates as to the times parties have indicated
17 and there will be time left in the day for Manitoba Hydro
18 to, certainly, commence if not complete, its re-
19 examination/rebuttal.

20 I've had brief discussions only with Ms.
21 Ramage and she's actively working on some aspect of that
22 but indicates that it won't be complete -- the re-
23 examination will not be complete tomorrow because I
24 believe two (2) of her witnesses are not available. But,
25 that may be a matter that has to be put over for first

1 thing Thursday morning.

2 But, yes, we still appear to be on track.

3 THE CHAIRPERSON: Very good. Thanks to
4 all. We'll see you tomorrow at 9:30.

5

6 --- Upon adjourning at 6:16 p.m.

7

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11 Certified Correct,

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16 _____
Cheryl Lavigne, Ms.

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