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MANITOBA PUBLIC UTILITIES BOARD

Re: MANITOBA HYDRO
2004 GENERAL RATE APPLICATION

Before Board Panel:
Graham Lane - Board Chairman
Lens Evans - Board Member
Robert Mayer - Board Member

HELD AT:
Public Utilities Board
400, 330 Portage Avenue
Winnipeg, Manitoba
June 15th, 2004
Volume II
Pages 233 to 417

APPEARANCES

1
2
3 R.F. Peters)Board Counsel
4
5 Patti Ramage)Manitoba Hydro
6
7 Byron Williams)CAC/MSOS
8
9 Michael Anderson)Manitoba Kewatinook
10 Ininew Okimowin (MKO)
11
12 Peter Miller (NP))TREE
13 Randall McQuaker (NP))
14
15 Garnet Boyd (NP))IBEW 2034
16
17 John Osler)Manitoba Industrial
18 Patrick Bowman)Power Users Group
19 Tamara McCaffery)
20
21 Jurgen Feldschmid)CCEP
22
23
24
25

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1 --- Upon commencing at 9:07 a.m.

2

3 THE CHAIRPERSON: Good morning everyone.
4 We're a little bit after 9:00 now, so I think we'll get under
5 way. Welcome back to day two (2).

6 Ms. Ramage, I understand you have some
7 undertakings to file?

8 MS. PATTI RAMAGE: Yes, the first undertaking
9 which is noted on the record is Undertaking Number 2, and
10 found at page 206 of the transcript is the debt management
11 strategy and I believe we are up to Exhibit Number 12, and
12 I'd ask that that be entered as Manitoba Hydro Exhibit Number
13 12.

14 THE CHAIRPERSON: So entered.

15

16 --- EXHIBIT NO. MH-12: Debt management strategy.

17

18 MS. PATTI RAMAGE: The second document is
19 noted as Undertaking Number 3 in the transcript found at page
20 214. It -- this is the updated IFF or it adds the 2002/2003
21 fiscal years to the -- to the chart.

22 THE CHAIRPERSON: Thank you. So, that'll be
23 MH-13, then?

24 MS. PATTI RAMAGE: Yes, thank you.

25

1 --- EXHIBIT NO. MH-13: Updated IFF showing addition of
2 2002/'03 fiscal years
3

4 THE CHAIRPERSON: Okay, when we broke off
5 last night, we were -- Mr. Peters was continuing with his
6 cross-examination.

7 First of all, I'd say the Panel's very
8 pleased to receive these two (2) undertakings so quickly.
9 It'll help us in our deliberations and we continue to urge
10 that the Corporation find a way to provide us with an updated
11 forecast, because we have an obligation to not only consider
12 the interest of the consumers but the health of the
13 Corporation itself and it's difficult to work through the
14 process without knowing the size of the loss and the makeup
15 of it.

16 Mr. Peters...?

17 MR. BOB PETERS: Yes, thank you Mr. Chair. I
18 wonder, also -- I'm not sure, Ms. Ramage, if that Exhibit 13
19 has been circulated to the Board members or to those
20 assembled.

21 MR. ROBERT MAYER: We have it.

22 THE CHAIRPERSON: Yes, we have it.

23 MR. BOB PETERS: All right, we'll -- we'll
24 catch that one at the break then.

25 THE CHAIRPERSON: Mr. Williams, when you

1 were out, Hydro provided two (2) undertakings, Number 12 and
2 Number 13, the first one being a debt management strategy,
3 the second one being an updated -- update of the projected
4 operating statements that added the two (2) actual years that
5 preceded the forecast period.

6 Mr. Peters...?

7

8 MANITOBA HYDRO PANEL RE REVENUE REQUIREMENT, Resumed:

9

10 CONTINUED CROSS-EXAMINATION BY MR. BOB PETERS:

11 MR. BOB PETERS: Thank you. Mr. Warden, when
12 you and I chatted yesterday about the debt management
13 strategy, I wasn't aware it was going to be quite the
14 priority that it appears to have been.

15 MR. VINCE WARDEN: Manitoba Hydro always
16 delivers.

17 MR. BOB PETERS: Can you tell me, sir, this
18 -- this debt manament -- management strategy, has this gone
19 to your Board of Directors?

20 MR. VINCE WARDEN: It will be going to the
21 Board of Directors next week.

22 MR. BOB PETERS: And can you just outline the
23 conclusions you reach and the strategy you have for
24 management of debt in this document, recognizing that we'll
25 have to read it after today?

1 MR. VINCE WARDEN: Well, Mr. Peters, it's
2 really not too different than what we discussed on the record
3 yesterday. It is stating that -- that debt is not a problem
4 at Manitoba Hydro and that it is important, nevertheless,
5 that we attain our financial targets for the prudent
6 management of that debt.

7 The -- there are some details provided as to
8 how that debt will be managed in the current and next fiscal
9 year, as to what -- exactly what instruments will be used to
10 manage that debt and to minimize the -- the cost of -- of
11 carrying that debt over -- over its life.

12 So, it's a fairly simple document. I think it
13 speaks to the issue but would be pleased to answer any
14 question -- any specific questions on that.

15 MR. BOB PETERS: I may come back to that,
16 sir. What I'd like to do at this time is turn to the
17 substance of the application that you have before the Public
18 Utilities Board, and we've talked about it in -- in many
19 ways, but to focus our discussed marked as Exhibit Manitoba
20 Hydro 1 is a letter dated January 29th of 2004 and is found
21 at Tab 3 of the Book of Documents that I handed out
22 yesterday.

23 Do you have that, sir?

24 MR. VINCE WARDEN: Yes, I do.

25 MR. BOB PETERS: This cover letter sent to

1 the Board with your application speaks to the increase that
2 you talked about yesterday as Item A, correct?

3 MR. VINCE WARDEN: Yes.

4 MR. BOB PETERS: And then the ex parte orders
5 that are referenced deals with the surplus energy and the
6 curtailable rates program orders as well as, I think it was
7 Order 153 of '03?

8 MR. VINCE WARDEN: Yes, that's correct.

9 MR. BOB PETERS: And the extension of surplus
10 energy terms and conditions of service is just to keep that
11 program alive for another two (2) years is the request of the
12 Corporation?

13 MR. VINCE WARDEN: Yes.

14 MR. BOB PETERS: And just while we're on that
15 Exhibit 1, item number (d), The Discontinuance of the Short
16 Duration Intermittent Rate, that portion of the application
17 has been withdrawn. Is that also correct?

18 MR. VINCE WARDEN: Yes. After we submitted
19 the application we recognized the fact there's still a
20 customer on that rate we -- we'll continue it for -- for a
21 while yet.

22 MR. BOB PETERS: Can you tell the Board as to
23 how long you want to continue to offer that rate?

24 MR. VINCE WARDEN: As long as that one
25 specific customer requires it we will continue to offer it.

1 It -- so that would be indefinite as this point and time.

2 MR. BOB PETERS: All right. In addition to
3 that there was a letter sent to the Board on March 18, 2004
4 dealing with flat rate water heating rates and I have that at
5 Document 4 of the Brief that I submitted. This is also part
6 of your GRA application request, is it Mr. Warden, for this
7 Board to approve flat rate water heater rates?

8 MR. VINCE WARDEN: It is and these are rates
9 that were formerly offered by Winnipeg Hydro but were not
10 part of Manitoba Hydro's approved rate schedule so we're --
11 we're formalizing those rates at this point in time or at
12 least requesting that these rates be formalized.

13 MR. ROBERT MAYER: Mr. Warden, I'm having a
14 little difficulty understanding flat rate water heaters. I
15 -- I have a water heater and it sort of seems to go on my
16 electrical bill as with all the other electric utilities I
17 have. How is it that you separate water heaters out?

18 MR. VINCE WARDEN: Well, this is goes back in
19 history when customers had the option of having a fixed
20 amount per month for water heating and as opposed to more
21 modern times when a customer don't -- customers do not have
22 that option. So, it's perpetuating rates that have been in
23 existence for many, many years and we have -- the Company has
24 chosen not to discontinue those until there are fewer
25 numbers.

1 MR. ROBERT MAYER: When you say many, many
2 years I do not -- I'm having trouble understanding the
3 justification for it. I mean, I guess we can grandfather all
4 kinds of things in and if you -- you just told us you're
5 grandfathering a special rate for one customer, how many
6 customers are we talking about? Is it -- this is a Winnipeg
7 Hydro thing, I understand?

8 MR. VINCE WARDEN: Primarily, Winnipeg Hydro,
9 yes.

10 MR. BOB PETERS: Perhaps, Mr. Warden, I can
11 deal with that issue then further with the rates panel if
12 that would --

13 MR. VINCE WARDEN: That would be good, yes.

14 MR. BOB PETERS: -- that would be
15 appropriate. But just in terms of what this Board is being
16 asked, I want them to be clear that not only, I think there
17 were seven (7) different element sizes for which rates are
18 proposed, that's as a result of we call it the Winnipeg Hydro
19 anomaly, there are also other water heater rates that were
20 approved in Order 153 of '03 which is found at Tab 5 of the
21 book of documents that I had circulated.

22 And you're asking for those to be finalized as
23 well; am I correct?

24 MR. VINCE WARDEN: That is correct, yes.

25 MR. BOB PETERS: Now, in this Order and --

1 and maybe this also should wait for the next Panel but while
2 the Vice-Chair raised the question of what's a flat rate
3 water heating rate, there's also controlled and uncontrolled
4 water heater rates. Are you familiar with those?

5 MR. VINCE WARDEN: Yes.

6 MR. BOB PETERS: Could you just briefly
7 explain that to the Board as to what's being requested?

8 MR. VINCE WARDEN: Yes, again it's -- it's
9 related to the acquisition of Winnipeg Hydro. Manitoba Hydro
10 did not have any controlled water heaters left on its system
11 but ma -- Winnipeg Hydro did, even though those meters were
12 not being effectively controlled.

13 So, at one -- at one point in time, hot water
14 tanks were controlled as a means of man -- managing peak
15 demand so at times at sys -- at system peak, the water
16 heaters would be shut down by, kind of a master switch and
17 the peak would be controlled on that basis.

18 That goes back again a number of years and is
19 not being used -- utilized anymore and we eventually will
20 bring these back into one rate schedule. It would involve,
21 though -- if we did that immediately with this Application,
22 it would involve rate increases to these customers that are
23 on controlled rates which would be quite large and we decided
24 this was not the appropriate time to do it. So, we'd rather
25 do that at a time when we're not having rate increases.

1 MR. ROBERT MAYER: What kind of -- who uses
2 this stuff? I mean, hot water is not generally a major
3 portion of -- of a hydro bill, at least not for me. Who's
4 using -- are these industrial plants or --

5 MR. VINCE WARDEN: No, the --

6 MR. ROBERT MAYER: -- are these home --

7 MR. VINCE WARDEN: -- these would all be
8 residential in the inner core of Winnipeg, yes.

9 THE CHAIRPERSON: Do you know the -- the
10 differential between sort of eliminating this particular
11 approach and reverting to your normal approach and what's
12 actually being billed now on an approximate annual basis?

13 MR. VINCE WARDEN: Yes, we -- and probably we
14 can speak more specifically to this when the -- when the cost
15 of service panel is up but the differential is approximately
16 7 to 8 percent, in that range.

17

18 CONTINUED BY MR. BOB PETERS:

19 MR. BOB PETERS: Thank you. Mr. Warden, are
20 you still making this rate option open for people or has it
21 been closed as -- as a new rate option for anybody who wants
22 to sign in?

23 MR. VINCE WARDEN: Yes, it's not available as
24 a new rate option.

25 MR. BOB PETERS: So, those on it are simply,

1 I think the word was grandfathered?

2 MR. VINCE WARDEN: That's correct, yes.

3 MR. BOB PETERS: And Mr. Warden, the rates
4 that you have sought approval for on the water heaters, not
5 only do you want to approve them as a rate offering -- as a
6 Manitoba Hydro rate offering but you also want them to be
7 increased as a result of this General Rate Application?

8 MR. VINCE WARDEN: Well, they would be
9 increased as part of the -- well, yes, as part of the Rate
10 Application, yes, in accordance with the average increases
11 that we're seeking with this Application.

12 MR. BOB PETERS: Mr. Cormie, the surplus
13 energy rate program, is that one that you're familiar with?

14 MR. DAVID CORMIE: Yes, I am.

15 MR. BOB PETERS: And there are a significant
16 number of interim ex parte orders that have been issued and
17 they're listed in Volume I Tab 9 page 10 of your -- of your
18 filing, if I have your notes correct, and you're asking for
19 the Board to give those final approval; is that correct?

20 MR. DAVID CORMIE: Yes, we are.

21 MR. BOB PETERS: Can you briefly explain to
22 this Board how it comes to be that you are seeking interim ex
23 parte orders for surplus energy on such a regular basis?

24 MR. DAVID CORMIE: Each week Manitoba Hydro
25 forecasts for the upcoming what the price of the energy will

1 be and we submit that to the Public Utility Board for
2 approval before we charge our customers that rate and we come
3 to the Hearing today to get final approval for those rates
4 that were -- have been set over the last while.

5 MR. BOB PETERS: Would it be correct to say,
6 Mr. Cormie, that rather than sell it on the export market
7 you'll sell it to some of your industrial customers?

8 MR. DAVID CORMIE: Yes, we -- we price the
9 electricity to the SAP customers in a fashion to holds
10 Manitoba Hydro whole. We are indifferent to whether -- from
11 a financial perspective, whether we are getting the revenue
12 from our export customers or from our SAP customers. At the
13 end of the day, Manitoba Hydro's financial position is
14 expected to be the same.

15 MR. BOB PETERS: And is it only industrial
16 customers that take up this offering?

17 MR. DAVID CORMIE: No, it -- there -- there
18 are customers like those who are on propane like hog barns
19 and -- and the like.

20 MR. BOB PETERS: So, customers will use this
21 offering in substitution of other fuels?

22 MR. DAVID CORMIE: That's correct.

23 MR. BOB PETERS: And I suppose they would use
24 this offering in substitution of other fuels if the price of
25 the electricity was cheaper than their alternate source of

1 fuel?

2 MR. DAVID CORMIE: That's correct.

3 MR. BOB PETERS: Can you indicate to the
4 Board approximately how many customers take up this offering
5 presently?

6 MR. DAVID CORMIE: We have thirty-two (32)
7 customers.

8 MR. BOB PETERS: Mr. Cormie, since your
9 application was filed, the Board has continued to issue
10 interim ex parte orders; is that correct?

11 MR. DAVID CORMIE: Yes.

12 MR. BOB PETERS: And could I ask of you then,
13 sir, to update the list of orders for which you're seeking
14 approval at some point during the course of this hearing, so
15 the Board knows current -- up -- up to the current number
16 which ones are being particularly sought for approval?

17 MR. DAVID CORMIE: We can do that, yes.

18 MR. ROBERT MAYER: Wouldn't we be better to
19 have that number right at the end, so that we get all of them
20 included rather -- rather than getting them piecemeal?

21 MR. DAVID CORMIE: Well, they -- they come
22 weekly and it really doesn't matter. As soon as -- as the
23 hearing process is over, we'll -- we'll be filing for them
24 and there'll be another block at the next -- at the next
25 hearing unless we change the process. So, we can do either.

1

2 CONTINUED BY MR. BOB PETERS:

3 MR. BOB PETERS: Presently, Mr. Cormie,
4 sorry, the -- the surplus energy program has been extended by
5 this Board to March 31st of 2005.

6 MR. DAVID CORMIE: That's correct.

7 MR. BOB PETERS: And the terms and conditions
8 under which it's been extended are the same as those this
9 Board approved back in Order 90 of 2000?

10 MR. DAVID CORMIE: That's correct.

11 MR. BOB PETERS: And the extension to March
12 31st of 2005 will be found in that interim ex parte Order
13 found at Tab 5 of the Book of Documents that I've prepared,
14 which is Order Number 153 of '00.

15 Is that correct?

16 MR. DAVID CORMIE: That's correct.

17 MR. BOB PETERS: If I understand the -- the
18 program, Mr. Cormie, the -- there's no rate increases sought
19 under the Curtailable Rates Program?

20 I'm sorry, under the Surplus Energy Program,
21 you're not seeking a rate increase because that's a matter
22 that you will want to deal with on a -- on a weekly basis,
23 based on the export prices?

24 MR. DAVID CORMIE: Yes, that's correct.

25 MR. BOB PETERS: Is it also correct, Mr.

1 Cormie, that there is no demand rate component for the
2 Surplus Energy Program charges?

3 MR. DAVID CORMIE: That's correct.

4 MR. BOB PETERS: Why is that?

5 MR. DAVID CORMIE: I -- I think that question
6 is best answered by Mr. Wiens when he's on the Panel.

7 MR. BOB PETERS: All right. Thank you for
8 that.

9 MR. DAVID CORMIE: May -- maybe I can --
10 maybe I can try. Manitoba Hydro is going -- intends to take
11 that energy to market either way, using the surplus
12 capability that's on its system.

13 And -- and generally that would mean that we
14 would forgo an export sale -- we forgo an export sale in the
15 spot market to provide that energy to our customer and it's
16 priced so that Manitoba Hydro has not incurred any additional
17 costs or lost any revenues.

18 And -- and these opportunity sales don't
19 include demand charges, so we're not trying to recover any
20 forgone demand charges in the rate, just the pure energy
21 cost.

22 MR. BOB PETERS: Has the Surplus Energy
23 Program been revenue neutral over the past two (2) or three
24 (3) years.

25 MR. DAVID CORMIE: Very close.

1 MR. DAVID CORMIE: Which side of the ledger
2 has it come out on and how much is that on that side of the
3 ledger?

4 MR. DAVID CORMIE: We'll have to get you that
5 information, Mr. Peters.

6 MR. BOB PETERS: All right. Then if you
7 could advise the Board either through your undertaking or
8 when the next Panel comes on in its direct evidence, that
9 would be satisfactory.

10

11 --- UNDERTAKING NO. 4: Surplus Energy Program revenue.

12

13 Under higher energy prices, does this program
14 continue to be attractive to customers, Mr. Cormie?

15 MR. DAVID CORMIE: As each surplus energy
16 customer has a backup available, the customer always has a
17 choice to take service under the SEP program or to utilize
18 his own backup fuel supply.

19 So, even under high -- under high prices the
20 customer may be achieving a saving compared to his
21 alternative; for example, if that were propane.

22 During periods when electricity prices are
23 very high, propane may be a more attractive alternative.

24 MR. BOB PETERS: Does Manitoba Hydro get
25 involved in making that determination for the customer or is

1 that entirely left to the customer?

2 MR. DAVID CORMIE: The customer makes that
3 choice.

4

5

(BRIEF PAUSE)

6

7

8 MR. BOB PETERS: Would -- would I be correct
9 then, Mr. Cormie, that Manitoba Hydro doesn't go looking for
10 additional customers to put on that program? You wait for
11 the customers to approach Manitoba Hydro?

12 MR. DAVID CORMIE: I -- I think Mr. Wiens is
13 best capable of answering that question.

14 MR. BOB PETERS: All right. Thank you.

15 MR. VINCE WARDEN: We're of course always
16 advising our customers as to their best energy options. So,
17 the people in our customer service and marketing area work
18 closely with customers and give them the best advice they can
19 in that regard.

20 MR. BOB PETERS: Mr. Cormie, I think you also
21 indicated in your direct to Ms. Ramage, that under the
22 curtailable rates order -- orders that's an area that you
23 have some responsible for?

24 MR. DAVID CORMIE: In -- in that it's my area
25 that is responsible for requesting the curtailments.

MR. BOB PETERS: I note from Volume 1, Tab 9,

1 page 9, that there are only two (2) curtailable rates orders
2 that were issued interim ex parte for which you want
3 approval. Is that your understanding as well?

4

5

(BRIEF PAUSE)

6

7

8

MS. PATTI RAMAGE: Could I get that reference
again, Mr. Peters?

9

10

11

MR. BOB PETERS: If it's helpful, Ms. Ramage,
maybe I can wait for Mr. Wiens to -- his Panel to come if
that would speed things along?

12

13

14

15

MS. PATTI RAMAGE: I think that would
probably move things a little quicker. Mr. Cormie's
responsible as he said for the curtailment aspect but I'm not
sure if he's as familiar with the other aspects.

16

17

18

MR. BOB PETERS: So, Mr. Cormie, you are the
-- Mr. Cormie, under the curtailable side, is it your group
that makes the decision whether to curtail a customer?

19

20

21

MR. DAVID CORMIE: Our group establishes the
rules under which curtailments take place and we instruct our
control centre to follow those rules.

22

23

MR. BOB PETERS: And has there been a
significant number of curtailments in the past year?

24

25

MR. DAVID CORMIE: In the summer of 2003, we
had significant curtailments, yes.

1 MR. BOB PETERS: And what was the reason for
2 that?

3 MR. DAVID CORMIE: One of the reasons for
4 curtailment is to protect our planning reserves and during
5 periods of very warm weather in Manitoba, air conditioning
6 load increases the likelihood that we will be short in
7 meeting our planning reserve obligations to the map
8 generation reserve sharing pool.

9 And we curtailed last summer in order to
10 ensure that we maintained adequate reserves on the power
11 system.

12 MR. BOB PETERS: How many customers were
13 affected by the curtailment?

14 MR. DAVID CORMIE: Four (4) customers.

15 MR. BOB PETERS: And if these customers are
16 curtailed, Mr. Cormie, can they buy replacement energy at
17 market price?

18 MR. DAVID CORMIE: No, they can't.

19 MR. BOB PETERS: And what options do they
20 then have?

21 MR. DAVID CORMIE: They can make up
22 production at other times if -- if their process will allow
23 it under the -- under the normal rates.

24 MR. BOB PETERS: All right. Mr. Warden, I
25 want to turn now to perhaps the -- the larger issue of your

1 request before the Board, and that deals with the rate
2 increases.

3 We heard you in your direct evidence yesterday
4 say that a rate increase of 3 percent starting effective
5 April 1st, 2004 and 2.5 percent average general rate increase
6 starting April 5th of 2005. Have I got that right?

7 MR. VINCE WARDEN: Yes, you have.

8 MR. BOB PETERS: And would it also be
9 correct, sir, that the 3 percent number and the 2.5 percent
10 number are based on the judgment of the Corporation?

11 MR. VINCE WARDEN: Yes.

12 MR. BOB PETERS: And would I be correct in
13 saying that the judgment stemmed from the management of the
14 Corporation as recommended to the Board of Directors?

15 MR. VINCE WARDEN: Yes.

16 MR. BOB PETERS: And you sit on that
17 management team, do you Mr. Warden?

18 MR. VINCE WARDEN: Yes, I do.

19 MR. BOB PETERS: So, it became a matter where
20 the management had to make a decision whether or not to
21 recommend to the Board of Directors of Manitoba Hydro whether
22 or not to seek a rate increase?

23 MR. VINCE WARDEN: Yes.

24 MR. BOB PETERS: Would I be correct that the
25 rate increase that you're seeking for the first year is to

1 raise approximately \$28 million dollars? And then
2 commutatively in the second year of your request the total
3 would be \$51 million dollars for every year thereafter?

4 MR. VINCE WARDEN: That's correct, yes.

5 MR. BOB PETERS: And as the Board sifts
6 through this -- the volumes of material, they're not going to
7 find a direct correlation to any specific cost item or other
8 item in your filing that's shows them the \$28 million
9 dollars, or the \$51 million dollars that -- that gave -- that
10 this is directly attributed to?

11 MR. VINCE WARDEN: Yes, I agree with that.

12 MR. BOB PETERS: So, it's not specifically --
13 specifically attributed or correlated to a specific cost
14 amount?

15 MR. VINCE WARDEN: Right.

16 MR. BOB PETERS: Rather, a judgment had to be
17 used to determine whether, under your financial
18 circumstances, you could continue at existing rates, or
19 whether you wanted to come to the Board to seek a rate
20 increase?

21 MR. VINCE WARDEN: Yes, there was no question
22 that a rate increase, given our circumstances, was required.
23 It is a matter of judgment as to what was a reasonable amount
24 to request at this time.

25 MR. BOB PETERS: Well, let's -- let's just

1 explore that for a few minutes.

2 To what does Manitoba Hydro attribute the
3 requirement for a rate increase at this time?

4 MR. VINCE WARDEN: Well, I think we've stated
5 publically that the drought has had a tremendous impact on
6 our retained earnings; it's a direct hit on our retained
7 earnings. And the drought was a primary driver for a rate
8 increase at this time.

9 Having said that, there's been other increases
10 in costs that have occurred since our last rate increase in
11 1997 and there's a limit to how much the Corporation can
12 absorb those through export sales, profits from export --
13 export sales.

14 Been able to do that for a number of years but
15 in the judgment of the Corporation, the time has come when
16 our -- when a relatively modest rate increase is required.

17 MR. BOB PETERS: The drought that's the
18 primary driver for the rate increase is over, is it not, Mr.
19 Cormie?

20 MR. DAVID CORMIE: The -- the drought in our
21 eastern water sheds is over, yes. In our western water
22 sheds, we're still waiting.

23 MR. BOB PETERS: In your judgment that was
24 used, Mr. Warden, if -- if rate shock or customer response
25 wasn't a factor to be considered, and I appreciate it

1 probably was, what rate increase would Manitoba Hydro have
2 been seeking?

3 MR. VINCE WARDEN: Well, I think as we
4 indicated in our risk management document, there are a number
5 of risks that the Corporation faces and ideally, to address
6 all those risks, we would like to have a debt equity ratio of
7 75:25; that's our target.

8 So if rate shock was totally not a
9 consideration, we would -- haven't even calculated what the
10 number would be, but we would implement a rate increase that
11 would get us there.

12 Of course, that's unreasonable, but it is
13 reasonable, I think, to get there over a period of time.

14 MR. BOB PETERS: And the time period in which
15 you want to get there, Mr. Warden, again, is a matter of
16 judgement?

17 MR. VINCE WARDEN: It is. We're -- Manitoba
18 Hydro's been around for a long time. We expect to be along
19 -- be around for a long time in the future, so getting there
20 gradually is -- is the right way to go in our judgment.

21 MR. BOB PETERS: And at the status update
22 hearing, and I'm not sure if I recall Ms. Wray's evidence
23 accurately from yesterday, but there was a view that the
24 75:25 debt equity target could be achieved by approximately,
25 was it 2005, Ms. Wray?

1 MR. VINCE WARDEN: Well, sorry. Our original
2 target was 2005/6. That was when the drought started
3 affecting Manitoba Hydro though we modified that target to
4 2011/12.

5 So, the current approved date for attaining a
6 debt -- a debt equity of 75:25 is still 2011/12.

7 MR. BOB PETERS: And in the IFF that's been
8 filed in this proceeding and at Tab 2 of the Book of
9 Documents that I prepared, which is out of your filing, the
10 attainment of the 75:25 debt equity target...

11 MR. ROBERT MAYER: While Mr. Peters is
12 reviewing his notes, or getting his advice, I thought I heard
13 Ms. Wray say yesterday that the debt equity ratio would
14 remain at 87:23 till 2010. I can't believe that you can get
15 -- go from 87:23 to 75:25 in one (1) year. Could somebody
16 explain that to me, please?

17 MS. LYN WRAY: I'd just like to point out
18 that when you're looking at what we'll reach in 2010 that's
19 based obviously on what will happen between now and then and
20 also we've got -- I'll use that word again, "place holder
21 rate increases" in the years 2006/7 and on.

22 This forecast doesn't necessarily project an
23 intention of what rate increases would be or, for that
24 matter, turnarounds that may or may not happen in the export
25 market. It's just simply a mathematical extrapolation of --

1 of what you get if you -- if you have the assumptions that we
2 have in this particular forecast.

3 MR. ROBERT MAYER: Ms. Wray, I haven't looked
4 at the transcript because this evidence just came up right
5 now, but I could have sworn you said something to the effect
6 you expect the debt equity ratio to remain at 72 -- sorry,
7 87:23 until 2010. I wrote that down.

8 I -- how can we now expect it to get to 75:25
9 one (1) year later?

10 MS. LYN WRAY: Sorry, I don't know where the
11 75:25 -- the 75:25 by 2011/12 is an approved target by the
12 Manitoba Hydro Board.

13 In this forecast, obviously, we don't get
14 there.

15 MR. ROBERT MAYER: So, this is, we don't
16 expect to get to 75:25 by 2011/12?

17 MR. VINCE WARDEN: As Ms. Wray indicated and
18 I think I mentioned a few minutes earlier, 75:25 is a Board
19 approved target to be attained by 2011/12. Now, that was
20 approved at the Board of Manitoba Hydro back in November of
21 2003.

22 So, we go to our Board once a year with an
23 IFF. We'll be going there with an update to the IFF in
24 November of -- possibly October of this year. At that time,
25 we'll review the financial targets again.

1 If the Board deems it appropriate to change
2 that target, we'll do that, but the Board approved target at
3 this point in time is 2011/12.

4
5 CONTINUED BY MR. BOB PETERS:

6 MR. BOB PETERS: What you're telling the
7 Board then, Mr. Warden, is that while your Board has approved
8 a target of 75:25, and they've moved the achievement date of
9 that from 2005/06 out to 2011/2012. Your forecasts right now
10 don't -- don't meet that target?

11 MR. VINCE WARDEN: That's correct and it's
12 based on the assumptions that are contained within a forecast
13 and a forecast, especially in our business, that depends so
14 much on the weather is subject to change and that's why we
15 update it on a regular basis.

16 MR. BOB PETERS: And in fact, the -- the
17 IFF03-1 which is found at Tab 2 of the book of documents that
18 I've prepared, again taken out of your IFF file in these
19 proceedings, you do not achieve the 75:25 debt equity ratio
20 within the planning horizon of that IFF?

21 MR. VINCE WARDEN: That's correct, yes.

22 MR. BOB PETERS: Now, we were talking about
23 what the impacts -- what was impacting the judgment of the
24 Corporation for coming in for an increase and we talked about
25 the drought being the primary issue and you said there were

1 other costs since 1997 that have en -- in -- that have
2 increased. Have I got that right?

3 MR. VINCE WARDEN: Yes, normal inflationary
4 type costs affecting our operating and administrative
5 expenses, as I mentioned yesterday.

6 They've been very modest averaging over the
7 past five (5) years only 1.9 percent per year which is equal
8 to the rate of inflation but nevertheless those are -- those
9 cost increases are real and have to be recovered at some
10 point from ratepayers.

11 MR. BOB PETERS: All right. In addition to
12 O&M costs, the debt equity ratio has also been impacted by
13 things like the lower export sales which could be attributed
14 to the -- to the drought but that's a factor that's been in
15 there?

16 MR. VINCE WARDEN: Yes.

17 MR. BOB PETERS: And higher import costs?

18 MR. VINCE WARDEN: Yes.

19 MR. BOB PETERS: Now, the higher import costs,
20 do you attribute that to the drought or is that a market
21 condition or how do you -- how do you analyse that?

22 MR. VINCE WARDEN: Well, it's -- and Mr.
23 Cormie can expand on this but it is certainly
24 drought-related, the fact that we're paying -- we have to
25 import power, we pay the market prices to the extent that we

1 don't have fixed contracts on those purchases and those
2 market prices are high.

3 And there -- there's a drought premium, I
4 think he referred to that is being paid, as well. So he --
5 Mr. Cormie may want to expand on that.

6 MR. BOB PETERS: Let me try it with him, if
7 he's not going to jump to the microphone.

8 Mr. Cormie, when Manitoba Hydro is
9 experiencing a drought, does Manitoba Hydro expect the people
10 who will sell it power are going to charge higher prices to
11 it than they had previously?

12 MR. DAVID CORMIE: During -- during normal
13 water years, Manitoba Hydro is supplying approximately 10
14 percent of the energy re -- electricity energy requirements
15 of the State of Minnesota. During severe drought conditions,
16 our production capability can be diminished such to the point
17 that we're now a net purchaser of power and we're not able
18 top fulfill our normal supplier role in -- in the State of
19 Minnesota.

20 As a result, the -- the utilities in Minnesota
21 have to operate more expensive generators to -- to meet the
22 price of power -- to meet the -- to serve their customers.
23 So, when Manitoba Hydro needs to purchase power, we are now
24 purchasing power from more -- the more expensive generators
25 that are now running.

1 So in that -- in that way, we are now
2 purchasing electricity at a higher -- at a higher cost.

3 As Mr. Warden said, our -- our contracts for
4 power purchases that we have in place are not fixed-price
5 contracts and the power purchased has -- the price for the
6 power purchased has to be negotiated at the time of -- of
7 purchase and so we're exposed to market price variations.

8 In the last year, natural gas prices have gone
9 up dramatically and that's affected the cost of -- of
10 purchase power and Manitoba Hydro has had to pay
11 proportionally more as a result of that.

12 So, we're -- we're purchasing power off
13 generators that are running more often and we're exposed to
14 the higher fuel costs. It's an open market for electricity
15 and Manitoba Hydro has no choice except to pay market price.

16 MR. BOB PETERS: Mr. Cormie, just to talk
17 about that for a minute.

18 The normal year, you say, you supply
19 approximately 10 percent of the State of Minnesota's power?

20 MR. DAVID CORMIE: That's correct.

21 MR. BOB PETERS: Is the 10 percent of
22 Minnesota's power that you supply, supplied under contract or
23 on a spot market basis?

24 MR. DAVID CORMIE: In a normal year, about
25 half of it is -- is been sold under long-term forward sales

1 contracts and about half of it is sold under short term or
2 interruptible sale contract.

3 MR. BOB PETERS: Have you had a situation
4 where to supply Minnesota with that portion of their fixed
5 long-term contract, you have to import the power to sell to
6 Minnesota?

7 MR. DAVID CORMIE: There are -- under -- under
8 low flow conditions, not the lowest flow conditions, Manitoba
9 Hydro will purchase lower cost electricity at night, allowing
10 us to store water in our reservoirs in order for us to -- to
11 return that to -- to deliver that energy to those customers
12 in the United States during the daytime.

13 Under extreme drought conditions, we need to
14 purchase low cost energy at night to serve Manitoba
15 requirements and -- and there is no additional capability to
16 transfer that purchase from the off peak into the on peak
17 period.

18 And so, under the lowest flow conditions, like
19 we've experienced in the last year, we need to go to the on
20 peak market in the United States and purchase power to
21 fulfill our on peak obligations in the United States.

22 MR. BOB PETERS: Thank you, Mr. Cormie. So,
23 as I'm understanding the situation, if it is a normal year,
24 Manitoba Hydro can supply 50 percent of the requirements to
25 the State of Minnesota through long-term fixed contracts --

1 long-term contracts, correct?

2 MR. DAVID CORMIE: Yes.

3 MR. BOB PETERS: Is that price fixed in the
4 contract?

5 MR. DAVID CORMIE: The -- the price is -- is
6 generally -- it's -- it's determined through formulas,
7 generally. But it is fixed by formula.

8 MR. BOB PETERS: All right. So, that's --
9 that's half of your commitment -- I'm sorry -- 5 percent of
10 Minnesota's power then is under a fixed price arrangement
11 with Manitoba Hydro?

12 MR. DAVID CORMIE: Approximately.

13 MR. BOB PETERS: And 5 percent of Minnesota's
14 power is under, either a short term or a spot market
15 arrangement with Manitoba Hydro in a normal year?

16 MR. DAVID CORMIE: Yes, in a normal year.

17 MR. BOB PETERS: In a drought year, or a low
18 flow year, do you have any commitments to supply under short
19 term or -- or spot market conditions?

20 MR. DAVID CORMIE: As we were entering into
21 the most recent drought, Manitoba Hydro realized that it
22 wasn't in a position to take on anymore short term export
23 sale commitments and we ceased that activity in -- in the
24 summer and the fall of 2002.

25 So, the only obligations that we had -- that

1 we've been delivering under the -- during the drought period,
2 were those long-term firm sales that had been negotiated
3 several years ago.

4 MR. BOB PETERS: All right. So, there was no
5 -- there was no need for Manitoba Hydro to supply power in
6 the drought year of 2002 to Minnesota under -- under
7 contracts or spot market?

8 MR. DAVID CORMIE: Did you mean 2003? 2003
9 is the drought year.

10 MR. BOB PETERS: Yeah. Did -- did I -- I
11 thought I said that. Sorry, 2003. I'm sorry.

12 MR. DAVID CORMIE: During 2000 -- during
13 2003, 2004, we had all our long-term firm obligations in
14 place and we were required to fulfill those obligations.

15 MR. BOB PETERS: So, it was only long-term
16 obligations in the drought year that you had with -- that you
17 had to meet?

18 MR. DAVID CORMIE: Yes.

19 MR. BOB PETERS: All right. And now, as I
20 understand what you told me, to meet some of those long-term
21 fixed price arrangements, you had to go to the on-peak market
22 to get the power and then sell it under your contract to
23 Minnesota?

24 MR. DAVID CORMIE: Yes, and there -- there --
25 there are two (2) ways of doing that; going to a third party

1 supplier, purchasing that power and delivering it to the --
2 to the export customer, or the preferable way was to go to
3 the export customer and settle financially with that customer
4 so that he would self-supply.

5 MR. BOB PETERS: Just so that I'm clear on
6 that, Mr. Cormie, and I'm going to use the example of
7 Minnesota again, that you have a commitment to provide
8 approximately 5 percent of the State's power under a contract
9 that's fixed. What would be an approximate price of that
10 fixed supply that you would be selling to them?

11 MR. DAVID CORMIE: The -- the prices that
12 were paid were varied over the year. They depended upon the
13 time in which the commitment was made and the market price,
14 the -- the expectation of market -- the market price at -- at
15 the time for the period of delivery.

16 Prices for on-peak power would vary between,
17 these are in U.S. dollars, roughly between forty (\$40) and
18 (\$80) dollars U.S. per megawatt hour.

19 MR. BOB PETERS: So four (4) to eight (8)
20 cents per kilowatt hour in U.S. funds?

21 MR. DAVID CORMIE: Yes.

22 MR. BOB PETERS: And I'm having a little
23 trouble correlating the -- your obligation to sell to
24 Minnesota and then your requirement to go buy. It sounds
25 like your contract with Minnesota is based on a formula but

1 that formula is not somehow tied to the spot market price I
2 take it?

3 MR. DAVID CORMIE: No the -- you're correct.
4 The -- the prices in the long-term contracts were the prices
5 that were negotiated at -- at the time those contracts were
6 entered into and are not connected in any way to the power
7 that was purchased over the last year during drought.

8 MR. BOB PETERS: So, Mr. Cormie, to cut to
9 the chase on an example and -- and then I'll just use
10 hypothetical figures because you're not giving the actual and
11 I can understand perhaps why.

12 You may have a contract where you have to sell
13 to Minnesota at four (4) cents, but to get that money you
14 have to go out and pay eight (8) cents for it?

15 MR. DAVID CORMIE: In -- In the year that you
16 have -- have drought conditions so over a -- over a ten (10)
17 period, Mr. Peters, we would expect that nine (9) years out
18 of ten (10) we would be selling power to the U.S. customer at
19 4 cents generating it with our hydro power and -- and paying
20 point four (.4) cents for the water rentals on that. So,
21 nine (9) years out of ten (10) the margin is -- is very large
22 on -- on that sale.

23 But we run the risk that in that ten (10) year
24 period there -- there could be a period of drought like
25 occurred last year. And so on average, one (1) year in ten

1 (10) you will face the risk of having to -- to purchase power
2 or generate the power needed to serve the contract off
3 Manitoba Hydro's thermal resources, either it's coal fired
4 stations or it's natural gas stations.

5 MR. BOB PETERS: So, when you're assessing
6 the risk, Mr. Cormie, you're expecting one (1) year in ten
7 (10) that you're going to lose a significant amount of money
8 on your export sale?

9 MR. DAVID CORMIE: When -- when we assess the
10 risk, we look at the -- the cost of serving the sale over all
11 possible flow conditions for the period of the contract. The
12 -- the drought that we experienced last year was one that
13 would occur once every thirty (30) years.

14 So, it was a relatively extreme event. But
15 that -- that -- the possibility of that event occurring was
16 -- would have been considered during the time that we entered
17 into the long-term sale obligation.

18 MR. BOB PETERS: How do you come up with the
19 nine (9) years out of ten (10) where you feel you'll have a
20 strong margin?

21 MR. DAVID CORMIE: We -- we're just using
22 that, Mr. Peters, as to represent nine (9) years -- most of
23 the time we will have adequate water to meet our -- our
24 obligations, one (1) year in ten (10) or one (1) year in
25 twenty (20), or one (1) year in thirty (30) or in the worst

1 case, one (1) year in eighty (80) which is our worst rec --
2 drought on record one year in '85. You know, there will be
3 some significant costs associated with serving those loads.

4 MR. BOB PETERS: Would I be correct in saying
5 that's not a calculated number, it's a -- it's just a -- it's
6 a comfort factor that the Corporation uses?

7 MR. DAVID CORMIE: It's a -- it's a way of --
8 of explaining that simply that -- that there's a -- you know,
9 there's a small chance of -- around a 10 percent chance that
10 we will not have the surplus hydro production on our system
11 in that year.

12 Nine (9) years out of ten (10) or most of the
13 time we'll be able to serve our export sale obligations with
14 our -- with our hydro resources.

15 MR. BOB PETERS: While we've jumped around a
16 little bit, Mr. Cormie, maybe we can turn ahead to a couple
17 of tabs in the materials that have been prepared and just
18 give an example to the Board so the Board can -- can use it
19 in its deliberations.

20 I'm going to ask the Board members -- I'm
21 going to ask the Board members to turn to the information
22 request that was Tree-RCM-MH-1-16 found at Tab 12 of the --
23 of the Book of Documents, and if the Board members and those
24 following can keep page 2 of 2 available of that information
25 answer, and then turn to PUB/Manitoba Hydro 2nd round

1 Question 59, which is found at Tab 13 of the Book of
2 Documents that I handed out, and also look at page 2 of 2.

3 Let me start, Mr. Cormie, by saying I'm -- I
4 just want to get the -- the principle down and then we can
5 talk the specifics.

6 MR. DAVID CORMIE: Mr. Peters, you -- you've
7 provided this handout to us yesterday and, in reviewing that,
8 we were checking the numbers on the second handout, the cost
9 page, and we realized that for the last four (4) months of
10 the table there was an error and we've corrected the error.

11 In addition, we have extended both the tables
12 to the end of the fiscal year and we have these as handouts
13 if -- if we could distribute them so that we're using correct
14 and up to date information.

15 MR. BOB PETERS: That's a -- that's a good
16 suggestion, Mr. Cormie. If that's available through your
17 Counsel we could do it now.

18
19
20

(BRIEF PAUSE)

21 MR. BOB PETERS: Mr. Chairman, I thank Mr.
22 Cormie for diligently providing the updated material. I'm
23 going to suggest, with the concurrence of his Counsel, that
24 we mark each of these documents as an exhibit and we can keep
25 them in Tabs 12 and 13 of the Book of Documents if we so

1 choose, but I think we're on to Exhibit 14 which I would
2 suggest be the update to the Tree RCM Manitoba Hydro First
3 Round 16. And I would suggest Manitoba Hydro Exhibit 15 be
4 assigned to the update to PUB/Manitoba Hydro 2nd round
5 question 59 if that meets concurrence with my colleague and
6 the Board Secretary on -- on those matters.

7 MS. PATTI RAMAGE: Yes, it does.

8

9 --- EXHIBIT NO. MH-14: Update to Tree-MH-I-16

10

11 --- EXHIBIT NO. MH-15: Update to PUB-MH-II-59

12

13 THE CHAIRPERSON: So entered.

14

15 CONTINUED BY MR. BOB PETERS:

16 MR. BOB PETERS: And, Mr. Cormie, I was just
17 going to try to have the Board follow this material by way of
18 an example. And I'd like to stick, for no -- for no
19 particular reason, with August of 2003.

20 And, you've told the Board that's in the midst
21 of our -- our drought year, correct?

22 MR. DAVID CORMIE: August 2003 was the
23 drought year. Which table are you now referring to?

24 MR. BOB PETERS: Well, let's look at them
25 both, sir.

1 MR. DAVID CORMIE: Okay -- okay.

2 MR. BOB PETERS: Starting with Exhibit 14,
3 which is the update to the Tree RCM Manitoba Hydro First
4 Round, Sixteen (16).

5 These are the export prices, as I understand
6 the evidence; is that correct?

7 MR. DAVID CORMIE: These tables show the --
8 the -- only the price of the energy and they don't include
9 the demand charges associated with the long-term firm
10 contracts. So, the -- the demand charges are not -- have not
11 been bundled into the average. This is just the average
12 energy price.

13 MR. BOB PETERS: Are you prepared to indicate
14 what the average demand charges would be?

15 MR. DAVID CORMIE: The -- the demand charge
16 can be -- can be significant. For example, on our five
17 hundred (500) megawatts sale, with NSP, that -- that over
18 half the income comes as a fixed -- as a fixed demand charge
19 and it -- and...

20 I -- I can't indicate what that number would
21 be if we rolled in the demand charge, but it would be a -- a
22 significant additional amount.

23 But, the -- but the example that you show here
24 is that on average we were exporting -- the energy was being
25 exported at a price of thirty-nine dollars and sixty cents

1 (\$39.60) Canadian and we were buying energy at sixty dollars
2 and forty-three cents (\$60.43) to serve those sales.

3 But, there is the additional income that is
4 coming from -- from the demand charges which be in the order
5 of almost \$100 million dollars a year, that hasn't been
6 included in this.

7 MR. BOB PETERS: Is the Corporation able to
8 provide that average demand by month in a similar table, Mr.
9 Cormie?

10 MR. DAVID CORMIE: We're -- we're reluctant
11 to do that, Mr. Peters, because it would reveal a pricing
12 component that we're not prepared to put into the public
13 domain.

14 MR. BOB PETERS: Can you tell the Board that
15 on your import prices, which in August of 2003, you've shown
16 here on average as sixty dollars and forty-three cents
17 (\$60.43); is there any demand component that should be shown
18 with -- with that table?

19 MR. DAVID CORMIE: During August of '03,
20 there were no demand charges included in the import prices.
21 This is just the -- we -- we were only purchasing energy
22 during August.

23 MR. BOB PETERS: Are there demand charges for
24 other months, Mr. Cormie?

25 MR. DAVID CORMIE: In order to secure a -- a

1 firm supply for the winter season, Manitoba Hydro entered
2 into forward sales -- forward purchase contracts for which
3 there were demand -- demand charges paid. And during the
4 winter of '03/'04, there's a significant expense associated
5 with the -- with those demand charges.

6 MR. BOB PETERS: When you -- you gave me the
7 example that, in a normal year, Manitoba Hydro supplies 10
8 percent of the power to Minnesota, that would be 10 percent
9 of Minnesota's power requirements, as I understood it. Would
10 that be correct?

11 MR. DAVID CORMIE: That's correct.

12 MR. BOB PETERS: Can you indicate to me and
13 correlate 10 percent of Minnesota's power would be equivalent
14 to how much of Manitoba's power?

15 MR. DAVID CORMIE: In a -- in a normal year,
16 Manitoba Hydro has total generation of approximately thirty
17 thousand (30,000) gigawatt hours. We have domestic load
18 requirements of approximately twenty-two thousand (22,000)
19 gigawatt hours.

20 So, about eight thousand (8,000) gigawatt
21 hours is made available to the export market. So, the
22 majority of that goes into the United States and the majority
23 of -- of that which goes in United States is consumed in
24 Minnesota.

25 So, a rough guess would be in a normal year

1 Minnesota purchases five (5) -- 6 million megawatt hours or
2 five (5) or six thousand (6,000) gigawatt hours.

3 MR. BOB PETERS: And therefore that would work
4 out to about 25 percent of Manitoba's domestic requirement?

5 MR. DAVID CORMIE: Yeah, if you -- if you take
6 the -- the six (6) and divide it by the twenty-two (22), you
7 get approximately that number.

8 MR. BOB PETERS: And in terms of dollars, what
9 would that equate to in a normal year?

10 MR. DAVID CORMIE: In dollars in Manitoba
11 or --

12 MR. BOB PETERS: No, in terms of the export
13 revenue recovered.

14 MR. DAVID CORMIE: Well, in our IFF we're
15 showing the forecast of \$461 million dollars of -- of export
16 revenue this year. Is that what you're asking?

17 MR. BOB PETERS: I was going to try to be more
18 specific to correlate it to the Minnesota sales. Are you
19 able to provide that?

20 MR. DAVID CORMIE: I would think the vast --
21 the vast majority of the \$461 million dollars will be from
22 revenue to Minnesota Utilities and -- and co-ops, yes.

23

24

(BRIEF PAUSE)

25

1 MR. BOB PETERS: Mr. Cormie, why is it that
2 Manitoba Hydro doesn't have its imports under a fixed price
3 contract?

4
5 (BRIEF PAUSE)
6

7 MR. DAVID CORMIE: Manitoba Hydro, in
8 negotiating its export contracts, recognized that -- that the
9 supplying utility -- utilities have the capability to provide
10 energy to Manitoba Hydro under low flow years as -- as was
11 the case this year and was -- was able to negotiate the right
12 to ask for the power at -- ask for the energy under low flow
13 conditions.

14 And -- and we were successful in including
15 those -- those obligations in the contract at -- at what we
16 believe is relatively low cost. Because we were not asking
17 for a fixed price right we believe that we -- we secured a
18 supply without having to discount the sale price of -- of our
19 export sale.

20 And -- and that was the basis on which the
21 contract was negotiated. We -- we did not attempt to fix the
22 price of power under -- under these energy call back
23 provisions in the contract.

24 MR. BOB PETERS: I appreciate you're trying to
25 make it understandable for myself and the Board Members on --

1 on those terms. If I might just have a minute.

2 MR. DAVID CORMIE: We -- we recognize that we
3 were exposed to market prices under the contract and there
4 would have been a significant premium -- a significant
5 premium would have to be paid to lock-in fixed price power.

6 The -- the terms of these contracts give us
7 the right to call on surplus energy that's available but it
8 -- but it's -- it's -- it's only if it's available do we have
9 the right to call on it.

10 It's not a firm power call.

11 MR. BOB PETERS: Just help me with that. For
12 Manitoba Hydro to have purchase contracts with fixed prices
13 you feel you would be having to pay a premium that would work
14 against the Corporation financially?

15 MR. DAVID CORMIE: Yes. We would -- we would
16 be paying that premium each and every year. Whereas, we
17 recognize that on average only one (1) year in ten (10) that
18 we would be calling on that energy guarantee provision of the
19 contracts.

20 And -- and given the low probability of
21 calling it, the premium would not have been worth the -- the
22 advantage to the Corporation would have been offset by the
23 discount that we would have to have negotiated in a lower
24 export price.

25 MR. BOB PETERS: And so that's a risk that

1 the Corporation recognizes is out there when it's exporting?

2 MR. DAVID CORMIE: Yes.

3 MR. BOB PETERS: And that risk increases the
4 more you export?

5 MR. DAVID CORMIE: The -- the more that
6 Manitoba Hydro enters into long-term export sales increases
7 the -- the price risk is -- is -- also can work to Manitoba
8 Hydro's favour though because high prices in the market can
9 occur due to natural gas prices during high water conditions
10 as well.

11 So, the risk is offset by the upside during
12 high water conditions. So, the -- the price risk is -- is
13 symmetrical in that high prices in the market can work for or
14 against the Corporation.

15 And although in droughts we may pay a premium
16 due to high prices, we also recognize that high prices in
17 more years work to the Corporation's advantage. And we've
18 seen that in the last ten (10) years or so where very high
19 market prices resulted in un-forecast increases in
20 ex-provincial revenue.

21 And -- and so, yes, there is some risk but
22 there's also an upside to -- to that as well.

23 MR. BOB PETERS: Is that upside one that
24 flows if Manitoba are above medium flows or above average
25 flows? What's the cut off point?

1 MR. DAVID CORMIE: I would think that for
2 flows greater than 10 percentile we would be benefitting from
3 the -- from the high market prices, yes. So, most of the
4 time, high prices work to our favour.

5 MR. BOB PETERS: When you say "10
6 percentile", you're saying that 90 percent of the time high
7 prices on the market work to Manitoba's advantage?

8 MR. DAVID CORMIE: On -- yes, in -- in
9 electricity, yes.

10 MR. BOB PETERS: And 10 percent of the time
11 it works to our disadvantage?

12 MR. DAVID CORMIE: That's correct.

13 MR. BOB PETERS: And is that measured
14 statistically or is that just your estimate of -- of what
15 would occur?

16 MR. DAVID CORMIE: Well, recognizing that if
17 we have flows above the 10 percentile level Manitoba Hydro
18 does not need to purchase power in the on-peak markets to
19 serve its obligations.

20 And -- and so high prices -- the market price
21 may be high but Manitoba Hydro does not need to purchase
22 power in the on-peak so we're not exposed to high purchase
23 prices.

24 We are a seller and -- and we will -- we may
25 be purchasing but we would purchase, say, off-peak power and

1 selling into a high on-peak market and capturing the
2 differential.

3 So, with favourable flow conditions, anything
4 greater than 10 percentile flows, high prices result in
5 increased margin for Manitoba Hydro.

6 MR. BOB PETERS: And it's only the 10 percent
7 time when the flows are lower in the bottom 10 percent that
8 Manitoba Hydro expects to have to purchase on-peak and run
9 into the situation where it's buying power on-peak at costs
10 greater than what it has, under it's export contracts?

11 MR. DAVID CORMIE: Yes, that -- you -- you've
12 summarized that correctly.

13 MR. BOB PETERS: All right, just to conclude
14 on this area, maybe before the break.

15 Mr. Warden, the Corporation has experienced
16 this drought year and these financial results, has this
17 caused the Corporation to alter its -- its strategy on the
18 export market?

19 MR. VINCE WARDEN: No. I -- certainly, the
20 past year was an experience that, as I indicated earlier, is
21 unprecedented in Manitoba Hydro's history. And there has
22 been a lot of review of the past year to convince ourselves
23 that we've done the right things in terms of how we managed
24 the -- the drought situation.

25 But, going forward, there's nothing in that

1 review that would suggest that we should have done anything
2 differently or that we should do anything differently going
3 forward.

4 MR. BOB PETERS: You're taking this past year
5 then as a normal cost of doing business, Sir?

6 MR. VINCE WARDEN: Well, it's hard to
7 describe the loss that we experienced as a normal -- it --
8 certainly it isn't normal. And as Mr. Cormie indicated, that
9 it's a one (1) in thirty (30) year event.

10 We do expect to experience a drought
11 approximately once every -- every ten (10) years, but not to
12 this order of magnitude.

13 MR. BOB PETERS: Can you tell the Board what
14 type of review was done with respect to what occurred last
15 year?

16 MR. VINCE WARDEN: Well, a lot of
17 presentations by Mr. Cormie and company. I should say that
18 David, being a professional engineer -- David Cormie being a
19 professional engineer, much better working with graphs and
20 charts than he is before the mic, but we -- not that he isn't
21 good before the mic, but...

22 MR. DAVID CORMIE: I can dance too.

23 MR. VINCE WARDEN: But, we've had a -- had a
24 lot of reviews at executive committee and Board of -- of the
25 situation and we're -- we're totally satisfied that the

1 situation was handled appropriately.

2 MR. BOB PETERS: And nothing in my question
3 should lead to any suggestion of the otherwise, but I was
4 wondering if, as a result of your reviews, those reviews
5 you've indicated have only been internal reviews, I take it?

6 MR. VINCE WARDEN: They have, yes.

7 MR. BOB PETERS: Nothing external?

8 MR. VINCE WARDEN: That's correct.

9 MR. BOB PETERS: Would that also mean nothing
10 independent? Nothing -- there's no independent review of
11 this matter within Manitoba Hydro?

12 MR. DAVID CORMIE: Mr. Peters, the -- the
13 issue that we've faced in the last year has been the -- when
14 -- when we've -- we've experienced drought simultaneous with
15 other adverse effects, high market prices, and, you know,
16 these coincident risks are -- are something that we are
17 trying to evaluate now.

18 And what's the likelihood that you'll have
19 drought, and high prices, and adverse foreign exchange
20 movements, and adverse weather, and -- and the probabilities
21 of all these events occurring simultaneously?

22 We have been working with a consultant to help
23 develop our modeling capabilities so that we can better
24 understand the likelihood and -- and severity of these events
25 occurring in the future to better define our risk profile.

1 And so, we have been working with and seeking
2 the advice of an outside consultant in the -- in the
3 development of -- of the models necessary to -- to look at
4 the -- this issue.

5 That modeling effort is still underway and we
6 will take the model when it's completed and -- and begin to
7 study the -- the probabilities of these events occurring and
8 -- and we will be advising the Corporation on -- on the
9 outcomes.

10 So, we have been -- we have been seeking
11 outside advice on -- on this issue.

12 We've also sought advice on -- on hedging the
13 risks of drought as we were going through the drought period
14 on -- on the timing and the purchase of power and natural gas
15 and -- and how we would best manage the risk of drought.

16 It was obvious to me that last spring that
17 Manitoba Hydro's risk of drought was heightened and the
18 Corporation was faced with potentially very, very
19 catastrophic event, financially and that there was some risk
20 to the supply in Manitoba and that -- that risk needed to be
21 managed.

22 But, it's very important that we do not
23 overreact and this was the experience in the spring of the
24 previous year when we were faced with drought conditions.
25 And we all went home one Friday morning in June thinking that

1 we were facing a severe drought. And we came back to work
2 the following Monday having had eleven (11) inches of rain in
3 southern western -- southeastern Manitoba.

4 What was a drought condition on Friday became
5 a flood condition on Monday. And so hedging Manitoba Hydro's
6 drou -- drought risk has to be gradual and it has to be
7 calculated. And so, we did seek advice from outside experts
8 on -- on our strategy and -- and did some review with them
9 just to make sure that we were not off base.

10 And we carried out our -- our hedging program
11 in -- in a manner that they judged was prudent and -- and
12 ultimately I -- I believe was a very wise way to operate
13 because we did get through the year, we did -- we did not
14 have to interrupt our customers and we did manage the risk of
15 drought -- financial risk of drought.

16 Although the results were very alarming, there
17 was much more risk -- power prices could have been doubled,
18 gas prices could have doubled. And our -- our activities in
19 the forward markets protected the Corporation from what I
20 consider to be a catastrophic loss and kept them within the
21 ca -- the ability of a Corporation to -- to manage.

22 MR. BOB PETERS: Who was the consultant, Mr.
23 Cormie, that you used to review that situation?

24 MR. DAVID CORMIE: We were working with Risk
25 Advisory out of Calgary.

1 MR. BOB PETERS: And from what I gather, they
2 -- they provided you with a report?

3 MR. DAVID CORMIE: The -- the work that we
4 did with them was -- was staged. They provided us with an
5 initial review of the risks and they reported on that. They
6 have yet to finalize the second portion of the work which is
7 the -- the model.

8 MR. BOB PETERS: Could you file the Phase 1
9 portion of that review with the Board for the -- for this
10 proceeding?

11

12 MR. DAVID CORMIE: We can do that.

13 MR. BOB PETERS: Thank you.

14

15 --- UNDERTAKING NO. 5: Copy of Phase 1 portion of Risk
16 Advisory Report.

17

18 CONTINUED BY MR. BOB PETERS:

19 MR. BOB PETERS: Mr. Warden, the results that
20 Mr. Cormie is talking about from his perspective deal with
21 the modeling of how to essentially operate the import and
22 export side of Manitoba Hydro, is that correct?

23 MR. VINCE WARDEN: Yes.

24 MR. BOB PETERS: And is it management's
25 decision at Manitoba Hydro that the long-term sale contracts

1 that they presently have should now be amended to provide for
2 market prices going forward rather than fixed prices?

3 MR. VINCE WARDEN: No.

4 MR. BOB PETERS: Why is that?

5 MR. VINCE WARDEN: Maybe I'm not totally
6 understanding your question, Mr. Peters, if you could
7 elaborate on why you -- I'm not sure how you would come to
8 that conclusion.

9 MR. BOB PETERS: Well, I -- I'm just asking
10 the question, that if -- if there is a concern that the
11 adverse financial circumstances could repeat themselves,
12 Manitoba Hydro appears to be held captive by the market
13 prices at the time of Manitoba Hydro's low water flows, would
14 it not be in Manitoba Hydro's best interest to have a -- a
15 market price provision in its export contracts because that's
16 what you're going to have to pay on your import side under
17 those low flow conditions and those situations where the
18 financial results are very unfavourable.

19 MR. VINCE WARDEN: Well no, in negotiating
20 long-term contracts as we have with Northern States Power or
21 Excel (phonetic), we -- we have to look at probabilities.
22 And prices we can derive from a firm contract are higher than
23 they would be under unfirm conditions.

24 So it's still to our advantage to -- to have a
25 fixed price on those contracts.

1 MR. BOB PETERS: Have you compared what your
2 contracts would be worth under -- under fixed price as you
3 presently have them compared to what they would be if it was
4 market prices?

5 MR. DAVID CORMIE: Mr. Peters, we -- in -- in
6 making an ex -- in negotiating an export sale, generally we
7 are responding to a request for proposals. We're competing
8 in the open market. We offer a fixed price product.

9 The purchaser is -- has gone to many companies
10 and received proposals. Offering a customer a market price
11 is something that he can get any day of the week and it would
12 be of no value to him. The customer -- the purchaser wants
13 price certainty. Manitoba Hydro has to offer price
14 certainty.

15 We ensure that when we establish that price,
16 that that price covers Manitoba Hydro's costs on average,
17 recognizing that there will be low flows and that there will
18 be high flows and we ensure that there's significant --
19 there's sufficient margin in the price to cover off those
20 types of risks, as well as that there is -- there is profit
21 in there for Manitoba Hydro. And -- and we offer that price
22 to the customer and the customer either accepts or rejects
23 the price.

24 MR. BOB PETERS: Mr. Warden and Mr. Cormie, am
25 I to take from those answers that when Manitoba Hydro

1 negotiates its long-term power sales under a fixed price
2 contract, you try to build into that fixed price contract the
3 adverse financial results that you expect to occur once every
4 ten (10) years, maybe once every thirty (30) years?

5

6

(BRIEF PAUSE)

7

8

9 MR. HAROLD SURMINSKI: I would just also like
10 to add on -- on the idea of portfolios. We desire a diverse
11 portfolio of export products so by -- by leaning to a heavy
12 weighting of fixed or opportunity, it does not add to
13 diversity. So, it is our desire. We have an export
14 marketing strategy that -- and we consider what portion of
15 our export portfolio should be fixed long-term versus --
16 versus market and opportunity.

17 So, that's part of our overall evaluation of
18 our export strategy is diversifying and -- and having part of
19 our long-term portfolio and long-term so we are guaranteed
20 revenues in the long-term.

21 MR. BOB PETERS: Thank you, Mr. Surminski. I
22 take that adds to what Mr. Cormie and Mr. Warden have said
23 and as I conclude on that, and you can tell me if I'm right
24 or wrong, when you planned your long-term export contracts
25 that are going to be fixed-price in nature, you try to
incorporate -- after studying the probabilities of various

1 water flows and pricing conditions, you try to incorporate
2 and accou -- and take into consideration there may be some --
3 some years in which the financial results will be
4 unfavourable?

5 MR. HAROLD SURMINSKI: Yes. And that's it --
6 that is part of our evaluation process. We consider the
7 possibilities of extended drought periods, cycles of low
8 flow, cycles of -- of higher flows and -- and what the value
9 of that contract is in the long-term.

10 MR. BOB PETERS: Would you agree with me, Mr.
11 Surminski, then that the financial results that we saw in
12 2003 then were not unexpected from the Corporation because
13 they had built that into their export pricing models and
14 prices?

15 MR. HAROLD SURMINSKI: Yes, that is correct.

16 MR. BOB PETERS: Mr. Chairman, perhaps at this
17 time it would be appropriate for the morning break.

18 THE CHAIRPERSON: Yes, we will. I have one
19 last question for Mr. Warden, if you don't mind.

20 We're now into June. In June 2004 are we back
21 with positive net flow as a result of the export
22 arrangements?

23 MR. VINCE WARDEN: We're -- we were not
24 forecasting to have a positive bottom line at this point in
25 the year. So, April and May typically aren't profitable

1 months and so our forecast -- our actual results for the
2 first two (2) months of the fiscal year are in accordance
3 with our forecast.

4 So, moving towards our forecasts for the year
5 of \$40 million dollars we're, at this point in time, right on
6 track.

7 THE CHAIRPERSON: Thank you. We'll have a
8 break now.

9

10 --- Upon recessing at 10:30 p.m.

11 --- Upon resuming at 10:50 p.m.

12

13 THE CHAIRPERSON: Mr. Peters, Ms. Ramage, are
14 we about ready to go again?

15 MS. PATTI RAMAGE: I believe we are.

16 THE CHAIRPERSON: Before we start, I just
17 want to indicate that we're fortunate to have our Albanian
18 guests back again. And, again, as I said yesterday,
19 particularly for the benefit of some others that are now with
20 us, we're particularly pleased to welcome a number of
21 observers from Albania's regulatory commission.

22 Most notably, the Chairman, Mr. Dema. Mr.
23 Dema, if you wouldn't mind just standing again. Very pleased
24 to have you.

25 Several of his colleagues and his support

1 staff, including the Director of tariffs, the Head of Legal,
2 engineers, economists and others are with us and we hope that
3 they will enjoy the experience again today. Thanks again for
4 coming.

5 Second, we're -- we now have Mr. Michael
6 Anderson of MKO with us and Mr. Anderson wasn't able to be
7 with us yesterday but we'll just extend him the courtesy if
8 he would like to make a few introductory remarks. Mr.
9 Anderson...?

10 MR. MICHAEL ANDERSON: Good morning, Mr.
11 Chair. Thank you for the introduction. And, yes, I would
12 like to make a few remarks.

13 Of course, all MKO citizens who are holders of
14 electrical accounts are customers of Manitoba Hydro.
15 Manitoba Hydro is the sole provider now of retail electrical
16 services in the prov -- province of Manitoba including to all
17 of the MKO First Nations.

18 By way of background, of course, MKO
19 represents the thirty (30) northernmost First Nations in
20 Manitoba. And some fifty-three thousand (53,000) Treaty
21 First Nations citizens; as I indicated, are customers of
22 Manitoba Hydro.

23 There's a very close relationship between our
24 First Nations, the MKO First Nations and Manitoba Hydro that
25 goes beyond the basic relationship of that of the service

1 provider and customer in that all of the existing major hydro
2 electric stations and most of the major transmission systems
3 in Manitoba Hydro are within the MKO Region.

4 If we looked at it geographically within the
5 confines of the provincial -- present political boundaries of
6 the Province of Manitoba the traditional territories combined
7 of the MKO Region covers some three-quarters of the province.

8 The operations of Manitoba Hydro affect almost
9 every major watershed in the MKO region, including the
10 Saskatchewan River, the Saskatchewan River delta, the
11 Loon/Laurie River system, the Churchill River, Southern
12 Indian Lake, the Rat and Burnt Wood Rivers, the Nelson River
13 and Lake Winnipeg.

14 The significance of this is, in addition to
15 being customers of Manitoba Hydro, MKO's citizens are
16 physically located along the developed waterways creating an
17 especially close relationship between our communities and the
18 Corporation.

19 And in having these two (2) dimensions create
20 a very keen interest in the operations and activities of the
21 Corporation, particularly rate increases. It goes without
22 saying that even though these rate increases may be described
23 as modest, they do represent increases to the costs incurred
24 by our citizens.

25 These costs are also passed on by services and

1 corporations providing services as well as basic foods to our
2 communities so they have an additional effect.

3 In addition to this basic relationship on the
4 developed waterways, which began to be initiated in the early
5 1960's and carried on through the last project constructed on
6 the Nelson River with the Limestone coming on stream in the
7 early 1990's.

8 Is as has been discussed a bit this morning,
9 by Mr. Peters and in the evidence yesterday, there has been
10 an increasing reliance of the Corporation, as its system has
11 matured on the operations for export purposes, which also
12 have effects, not only on creating additional risk to the
13 Corporation in terms of its revenues, which we've discussed
14 this morning as being a substantial matter sufficient to
15 engage an outside consultant to advise the Corporation.

16 But it also affects the way the waters
17 themselves are being regulated in response to drought related
18 conditions and these risks.

19 Because of our relationship, when Manitoba
20 Hydro changes the way it operates its water systems and its
21 reservoirs, it affects our communities directly.

22 So, Manitoba Hydro's reaction to risk in terms
23 of stabilizing its revenues in order to stabilize its rates
24 have two (2) affects on our citizens.

25 One (1) is in terms of physical affects on

1 waterways and ways of life and second is on rates.

2 So, Mr. Chair, with that I'd like to say we're
3 keenly interested. We've -- we're looking at the seventeen
4 (17) binders plus of materials and the comments that have
5 been made.

6 Our pre-asked comments we'd like to pursue.
7 We also have questions to pursue through examination of -- of
8 Manitoba Hydro's witnesses.

9 And with that, I thank you and again, good
10 morning to you and to the Members of the Panel. Thank you.

11 THE CHAIRPERSON: Thank you, Mr. Anderson.
12 We will return now to the Hearings. Mr. Peters ...?

13 MR. BOB PETERS: Yes, thank you, Mr.
14 Chairman.

15

16 CONTINUED BY MR. BOB PETERS:

17 MR. BOB PETERS: Mr. Cormie and Mr.
18 Surminski, when we were talking before the break, you
19 indicated that, in doing your modeling and your building up
20 your strategy for your export contracts, not only do you
21 build into it the probabilities of low water flows, but you
22 also include in that fixed price contract, consideration for
23 the costs that Manitoba Hydro is going to incur to meet that
24 contract.

25

 Have I got that right?

1 MR. DAVID CORMIE: Yes, you do.

2 MR. BOB PETERS: And in terms of the costs
3 that you consider at that time, Mr. Cormie, do you consider
4 the fixed costs that the Corporation will have to meet the
5 contract and embed that in the contract price?

6 MR. DAVID CORMIE: To date, Manitoba Hydro
7 has -- if there were any fixed costs associated with the --
8 with the sale, we would include those.

9 MR. BOB PETERS: Are there typically fixed
10 costs associated with sales, Mr...

11 MR. DAVID CORMIE: A good example, Mr.
12 Peters, is the five hundred (500) megawatt sale extension
13 contract with Northern States Power that we negotiated -- we
14 were awarded the contract in the summer of 1999 and delivery
15 start this -- in May of 2005 and goes for ten (10) years.

16 That sale will be made out of existing
17 resources. So, there are no additional fixed costs
18 associated with making that sale. So, there were -- there
19 would be no fixed costs associated in that analysis.

20 The only costs would be lost opportunity costs
21 and additional fuel and power purchases necessary to serve
22 that sale.

23 MR. BOB PETERS: When you say there will be
24 -- that -- that sale will be met from existing resources,
25 you're telling the Board that you don't have to incr --

1 introduce new generation to meet that?

2 MR. DAVID CORMIE: Right. We wouldn't have
3 to construct any new facilities in order to -- to deliver
4 that power to Northern States.

5 MR. BOB PETERS: So, the -- the Wuskwatim
6 project is not expected to contribute to that contract in any
7 way, shape or form?

8 MR. DAVID CORMIE: That's correct.

9 MR. BOB PETERS: And what about then the
10 variable costs? Do I take it that you consider -- what --
11 what variable costs do you consider when you're pricing your
12 export contracts?

13 MR. DAVID CORMIE: The variable costs are,
14 water rentals, additional coal generation at -- at Brandon,
15 additional natural gas-fired generation at Brandon and
16 Selkirk, additional off-peak purchases from the market and
17 additional on-peak purchases from the market.

18 MR. BOB PETERS: Do you know in advance
19 whether you're going to in fact need off-peak or on-peak
20 purchases, Mr. Cormie?

21 MR. DAVID CORMIE: We -- we know that our
22 analysis looks at all possible flow conditions and that under
23 lower flow conditions of power, off-peak power purchases are
24 required. As conditions worsen, on-peak power purchases are
25 required to the extent that they're less expensive than

1 firing our natural gas stations.

2 And finally we get to the point where we are
3 no longer able to import or purchase to serve the sale and we
4 run our most expensive generation at our gas -- at our gas
5 plants.

6 MR. BOB PETERS: Can you tell the Board, sir,
7 whether the variable costs will include things like
8 transmission losses?

9 MR. DAVID CORMIE: They -- they do consider
10 transmission losses but only to the extent that those
11 transmission losses are -- are common whether we have the
12 sale or not. So, if -- to the extent that they -- they --
13 they increase transmission losses, yes, they are included.

14 MR. BOB PETERS: Well, would not all export
15 sales increase transmission losses, Mr. Cormie?

16 MR. DAVID CORMIE: In a normal water year,
17 energy is -- there is -- where -- we have surplus energy
18 available to sell and so that surplus energy is going to --
19 is going to go to market and will incur transmission losses.

20 Under the firm sale contract situation, energy
21 that had been previously sold under -- as a -- as a surplus
22 sale or as a spot market sale would now be sold as a firm
23 sale, so the losses would be identical.

24 If we have a five hundred (500) megawatt
25 surplus and it's not sold under a contract, that five hundred

1 (500) megawatts will incur fifty (50) megawatts of losses,
2 for example but there were going to be fifty (50) megawatts
3 of losses because that energy will go to market as a spot
4 market sale.

5 So, the losses would be common. Whether they
6 -- whether -- whether you call it a firm sale or whether you
7 call it a spot market sale, if there's five hundred (500)
8 megawatts going to market, those -- the losses will be
9 common.

10 MR. ROBERT MAYER: Mr. Cormie, I heard at the
11 other place that every extra kilometre you add to the
12 transmission costs significant amounts of money. We had that
13 discussion for quite some time over the routing of the
14 transmission lines.

15 So, it would be fair to say, would it not, if
16 you are moving power to somewhere in the northern states, the
17 very fact that you're moving it that extra distance would
18 increase your -- your transmission losses?

19 MR. DAVID CORMIE: Yes, that's -- that's a
20 good point, Mr. Mayer. Is the -- the difference could be
21 that the -- the sale of a spot market sale may be to a
22 customer who is closer than the sale of power to a customer
23 who is at a -- at a greater distance and so there would be
24 some -- potentially some incremental -- incremental losses.

25 I -- for example, if we have a customer in

1 Chicago versus a customer in Minneapolis, there would be an
2 extra 10 percent approximately in losses. But -- but that's
3 just a hypothetical.

4 Most of the power goes into downtown
5 Minneapolis and whether it goes there as a firm sale or as a
6 spot sale, I don't believe that there's a significant
7 difference in incremental transmission losses. To the extent
8 that there are, they are included in the analysis.

9

10 CONTINUED BY MR. BOB PETERS:

11 MR. BOB PETERS: So, for the most part you
12 don't take into account that your spot customer could be
13 closer to the border than Minneapolis, you treat it all the
14 same in terms of assuming the transmission losses would be
15 identical under -- under spot sale or a contract sale?

16 MR. DAVID CORMIE: Yes, but there are
17 situations, for example, a sale to Ontario where we would be
18 selling the power to a customer at a much greater distance.
19 Transmission losses -- incremental transmission losses need
20 to be included in order to get the proper economic result.

21 MR. BOB PETERS: All right. Other than the --
22 the fuel purchases and the import costs and water rental
23 fees, are there any other items from your Cost of Service
24 that you take into account in preparing your long-term fixed
25 contracts?

1 MR. DAVID CORMIE: I -- I don't believe that
2 there are any other items, Mr. Peters.

3 MR. BOB PETERS: And just to go back a
4 question, Mr. Cormie; in a firm sale there would be no
5 discrete allocation for transmission losses unless you have
6 some reason to believe those transmission losses would exceed
7 what would happen if it was a spot market sale?

8 MR. DAVID CORMIE: The -- the analysis is
9 done with and without the sale. So, the analysis without the
10 sale calculates associated losses. The analysis with the
11 sale includes the losses and the difference includes the
12 incremental change in losses associated with the sale.

13 MR. BOB PETERS: But that incremental change
14 in losses has to then decide is the spot customer in
15 Minnesota or is the spot customer in Illinois; is that
16 correct?

17 MR. DAVID CORMIE: To date we don't have
18 access to Illinois so it's only a hypothetical situation.
19 And, as I said, if that were to occur we would -- we would
20 adjust for that.

21 MR. BOB PETERS: But I'm just not quite --
22 and I'm probably not asking the question very well and I
23 apologize for that, but when you're -- when you're preparing
24 your long-term contracts and trying to consider all of the
25 variable costs, I'm gathering that you do not add any

1 variable costs for transmission losses because you assume you
2 would have those if it was a spot market sale as well? Is my
3 understanding correct?

4 MR. DAVID CORMIE: We don't have to make the
5 assumption. It falls out of the analysis. We do it with and
6 without both -- both analyses include the cost of losses. To
7 the extent that the sale increases losses, they are included
8 in the analysis. I -- I think we're doing what you're asking
9 us to do. I think the analysis is complete.

10

11

(BRIEF PAUSE)

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Mr. Peters, one factor is that -- that most of
our sale obligations are at the border between Manitoba and
-- and Minnesota so our obligation to supply is at the border
and -- and -- and then the customer is responsible for losses
on the U.S. side of the interface.

15

16

17

And because that's the only thing that we
could control is -- is the loss costs in Manitoba. And so I
think that probably simplifies the analysis.

18

19

20

MR. BOB PETERS: Okay. Thank you, for that
clarification.

21

22

23

MR. DAVID CORMIE: And -- and one final thing
is that the -- the -- it -- at times we have a responsibility
to provide a delivered price and that may require Manitoba

24

25

1 Hydro to incur some transmission charges in the U.S.. And to
2 the extent that we incur those costs, we include those in the
3 pricing of the product in our -- in our cost estimate of
4 making the sale.

5 MR. BOB PETERS: That would really be the
6 spot market type sales or the less than one (1) year firm
7 contracts?

8 MR. DAVID CORMIE: No. These would be in --
9 in -- in all contracts. A customer wants a delivered price
10 at, you know, for example, in Minneapolis and he's -- he's
11 asking all bidders to bid on that basis.

12 And if Manitoba Hydro would have to purchase
13 firm transmission service to make that happen, we would
14 include that -- that cost.

15 MR. ROBERT MAYER: But, not the loss
16 occasioned thereby?

17 MR. DAVID CORMIE: The purchaser of the firm
18 transmission may have to -- owns the transmission and has to
19 pay the costs of taking service which would include the cost
20 of the losses.

21

22 CONTINUED BY MR. BOB PETERS:

23 MR. BOB PETERS: I'm going to refine the
24 question because I'm -- I'm sure when I read the transcript
25 I'll have a better understanding, Mr. Cormie.

1 But you're helping me here. You've explained
2 that many of your sales occur at the U.S. border but in doing
3 those sales do you include in your analysis of the price,
4 what are the transmission losses within the Province of
5 Manitoba?

6 MR. DAVID CORMIE: We assume that the losses
7 to make the export sales are the -- are the same loss costs
8 associated with serving Manitoba load in the province.

9 So, losses are allocated to sales on a
10 non-discriminatory sys -- we -- we average the lost costs and
11 we assign the same costs to losses for export customers as we
12 did to our domestic customers.

13 MR. BOB PETERS: All right, thank you. Mr.
14 Cormie, the -- let's assume we don't have a drought year,
15 however you define that. But would you acknowledge that
16 opportunity sales have a potential to aggravate drought
17 conditions by lowering their reservoir levels, for example?

18 MR. DAVID CORMIE: There -- there are --
19 opportunity sales are discretionary sales and they are not --
20 they are not included in the analysis that is done to
21 determine what reserves must be kept in reservoir storage to
22 ensure that the supply in Manitoba is reliable.

23 And so, opportunity sales have no effect on
24 reser -- on reserve requirements. Opportunity sales do
25 affect reservoir operations in that we use our reservoirs to

1 transfer water from period of low prices to high prices in
2 response to the price signals that the market is sending.

3 MR. BOB PETERS: Do I understand from that
4 answer, Mr. Cormie, that you will take opportunity sales as
5 long as they don't draw down on the reservoirs at all?

6 MR. DAVID CORMIE: I think opportunity sales,
7 by definition, have no affect on our reserve requirements.

8 MR. BOB PETERS: I'm just not sure that's the
9 question I asked. And I'm --

10 MR. DAVID CORMIE: Well, we -- yeah.

11 MR. BOB PETERS: I'm just trying to
12 understand that --

13 MR. DAVID CORMIE: We only enter into
14 opportunity sales from surpluses that we are confident are --
15 that exist. And to the extent that the surpluses are not
16 there, from -- from the hydro system, the surpluses are --
17 are coming from our non-hydro resources.

18 And if a customer wishes to purchase power
19 priced at the cost of our natural gas generation, we will
20 offer him a price based upon the cost of operating those
21 non-hydro assets and -- and -- so, opportunity sales can come
22 from hydro as well as the non-hydro resources.

23 MR. BOB PETERS: When you say you'll make
24 opportunity sales out of your surplus, is that surplus the
25 surplus energy you're able to generate or is that the surplus

1 water that you have?

2 MR. DAVID CORMIE: Water conditions can --
3 can be such that it's not necessary for us to run our
4 thermogenerating station so their production capability is
5 surplus to the needs of Manitoba.

6 And -- and we will enter into sales contracts
7 that recognize that they may need to be served out of our
8 hydro resources as well as our thermo resources and the price
9 for that product will inclu -- will be a blended price
10 recognizing that some hours of the day we don't have to run
11 our gas-fired generators, and some hours of the day we do.

12 And so, to the extent that -- that there are
13 costs associated with the sale, they are included in -- in
14 the pricing.

15 MR. BOB PETERS: Can you tell the Board
16 whether you've ever had an opportunity sale where you've lost
17 money?

18 MR. DAVID CORMIE: Yes, we have.

19 MR. BOB PETERS: Under what conditions were
20 those?

21 MR. DAVID CORMIE: Those sales would have
22 occurred when weather conditions have become adverse and the
23 -- the -- in order to serve the -- to serve the sale, we had
24 to operate more expensive generating resources than we had
25 assumed when had priced the sale.

1 MR. BOB PETERS: So, there is uncertainty
2 associated with -- with the source of supply and when we
3 evaluate the exp -- we evaluate the cost of making the sale,
4 we look at the cost over a range of possible conditions.

5 And on average, we calculate an average cost
6 of supply. We add a margin to that pri -- to that price to
7 determine the price that we will offer and -- and we know
8 that there are sets of circumstances built into that average
9 price that Manitoba Hydro could -- could potentially lose
10 money but also we know that there are circumstances when it
11 will cost us significantly less.

12 And so you can make a -- a good decision on
13 the sale and have a bad outcome because you ended up with a
14 set of circumstances that -- that cause supply costs to be
15 higher than the revenue.

16 MR. BOB PETERS: It sounds that for there to
17 be a loss of -- well, you lose money on an opportunity sale,
18 you're assuming you have surplus energy available generated
19 cheaper than what you're going to sell it at; is that
20 correct?

21 MR. DAVID CORMIE: Well, we -- we enter into
22 the sales when -- over the -- over the average of all
23 expected conditions that the pro -- the sale will be
24 profitable. Under -- under average conditions, if the sale
25 wasn't profitable, we wouldn't enter into it.

1 MR. BOB PETERS: How quickly do you enter into
2 these contracts? Are these -- are these by the hour, by the
3 day, by the week? How much advance notice would you be
4 given?

5 MR. DAVID CORMIE: We enter into sales over
6 all those time-frames.

7 MR. BOB PETERS: And your opportunity sales go
8 for a maximum period of notice of how much time?

9 MR. DAVID CORMIE: The opportunity sales are
10 -- are entered into just for the -- for the short term, less
11 than a year because it's only within the year that we have
12 any assurance -- any ability to know whether there's a
13 surplus.

14 For example, we in -- in February fo -- of a
15 particular year, we don't necessarily know whether the water
16 conditions in that year will be low or high, so we do not
17 enter into opportunity sales in February for the -- for the
18 upcoming year. We can only sell out of our dependable
19 supplies and -- and because we don't know yet whether there
20 is a surplus available.

21 MR. BOB PETERS: But I was -- I'm just not
22 sure I understand your answer that you can sell at a loss
23 when there's a relatively short term involved here in terms
24 of arranging the contract. So, if Minnesota phones you up
25 and wants power next week, a certain amount, are you saying

1 that between today and next week the circumstances may change
2 that while you thought you were selling it at a profit, it'll
3 end up being sold at a loss?

4 MR. DAVID CORMIE: No, I was -- the example
5 that I gave there was a Minnesota customer in September wants
6 to purchase power for December delivery. And when we do the
7 evaluation on the cost of serving the sale, we look at the
8 possibility that the winter will be a mild winter when
9 Manitoba Hydro has extra surplus.

10 We also look at the possibility that under an
11 extreme winter when it's very cold and the demands for power
12 in Manitoba are very high that the sale may trigger high cost
13 generation. So, you don't yet know -- don't yet know what
14 the whether conditions for December are.

15 You know there's a possibility of having high
16 loads or low loads in Manitoba and -- and when you do the
17 evaluation of the cost of the sale, you are looking at their
18 -- you know, several possible outcomes. And in calculating
19 on average that there'll be margin there but knowing in that
20 average that there'll be some circumstances where we will
21 incur some losses but on average, we will -- we will make
22 money.

23 MR. BOB PETERS: So, again it comes down to
24 probabilities and you're working out what you think is
25 average -- average safe position?

1 mentioned before the break that I want to just clear up is
2 that foreign exchange is always a risk for the Corporation, I
3 understand.

4 MS. LYN WRAY: It is a risk but it's a risk
5 which we've substantially mitigated through our exposure
6 management program whereby we try to balance off cash
7 out-flows and in-flows denominated in U.S. dollars. We have
8 U.S. debt as well as U.S. revenues so, over a -- a long time
9 period we are pretty well balanced under expected conditions.

10 MR. BOB PETERS: In the drought year of
11 fiscal '04, was foreign exchange a factor that contributed to
12 the negative financial results for the net income line?

13 MS. LYN WRAY: It's actually mitigated the --
14 the impact of the drought because we were a net importer last
15 year and because of the decline of the U.S. dollar at that
16 time, we paid less for imports than we otherwise would have
17 expected to do.

18 That was a year obviously where there was
19 unhedged U.S., as it turned out in this case, costs rather
20 than revenues because of the unexpected conditions but it
21 worked fortuitously to our favour.

22 MR. BOB PETERS: And you acknowledge it was
23 only fortuitous, it wasn't -- there was -- there was no
24 design or strategy in that?

25 MS. LYN WRAY: Right. There's always some

1 element of -- of exposure just because events don't work out
2 the way you expect. Having said that, over the long-term, we
3 are fairly well hedged.

4 MR. BOB PETERS: Your -- your hedging though
5 is not by way of financial instrument, it's by the fact that
6 you have U.S. bills to pay and U.S. revenue received.

7 MS. LYN WRAY: Yes, in the short term, we
8 might from time to time use financial instruments to bridge
9 between one (1) period and/or another. But, by and large,
10 the hedging is done by virtue of the fact that we have U.S.
11 debt and over a period of time, U.S. revenue in-flows.

12 MR. BOB PETERS: Have there been significant
13 hedging losses on the foreign exchange in recent years, Ms.
14 Wray?

15 MS. LYN WRAY: Not to my knowledge.

16 MR. BOB PETERS: If anyone would know, you
17 would know, right?

18 MS. LYN WRAY: I hope so.

19 MR. BOB PETERS: All right. It's just when
20 you said, not to my knowledge, I wasn't sure if that was a...

21 MS. LYN WRAY: I -- I was just referring to
22 the fact that I took over the post of treasurer in December
23 2002 but I -- I think --

24 MR. VINCE WARDEN: I can -- actually I was
25 around before that time. And I can confirm that, there were

1 no significant losses on the foreign exchange market prior to
2 that time.

3 MR. BOB PETERS: And in the -- in the fiscal
4 '04 year, the \$355 million dollar shown on the -- on the
5 forecast financial statements, none of that is attributable
6 to a foreign exchange loss?

7 MS. LYN WRAY: No.

8 MR. BOB PETERS: When, Mr. Cormie, you were
9 helping the Board with Exhibits 14 -- Manitoba Hydro Exhibit
10 14 and Manitoba Hydro Exhibit 15, these were average prices
11 on imports and exports as well as the -- the quantity
12 exported or imported. You brought to the Board's attention
13 that there's a -- a piece missing in the puzzle because we
14 don't have the revenue from the demand charges. Is that
15 correct?

16 MR. DAVID CORMIE: That's -- that's correct.

17 MR. BOB PETERS: And you also indicated that
18 in a -- in a typical year, you could have as much as \$100
19 million dollars paid to Manitoba Hydro for the demand
20 charges.

21 MR. DAVID CORMIE: It could be as high as
22 that, yes.

23 MR. BOB PETERS: Is that \$100 million dollars
24 only from the one contract with NSPXL or is it -- is it from
25 all exports?

1 MR. DAVID CORMIE: There -- there a few
2 contracts that have demand revenue associated with it.

3 MR. BOB PETERS: And in aggregate how much is
4 that in terms of demand charges that the Corporation
5 receives?

6 MR. DAVID CORMIE: As I indicated it could be
7 as high as \$100 million dollars.

8 MR. BOB PETERS: Sorry, that was an aggregate
9 then?

10 MR. DAVID CORMIE: Yes.

11 MR. BOB PETERS: Sorry, I misunderstood your
12 answer, I apologize. The -- the contracts that you have on
13 export, do you know whether or not you file those with the
14 National Energy Board?

15

16 (BRIEF PAUSE)

17

18 MR. DAVID CORMIE: I believe we do, yes.

19 MR. BOB PETERS: And do you also believe that
20 those documents then become a matter of public record at the
21 National Energy Board in Calgary?

22 MR. DAVID CORMIE: I'm -- I'm not certain of
23 this but I believe the prices are held confidential.

24 MR. BOB PETERS: And then speaking of matters
25 held confidential, is the Corporation prepared to file with

1 this Board in confidence, the average demand charges for the
2 months shown on Manitoba Hydro's Exhibit 14 and Manitoba
3 Hydro Exhibit 15?

4 MR. DAVID CORMIE: Would it help, Mr. Peters,
5 if we for the last year included the demand charge and roll
6 it up into the energy charge to show you the aggregate
7 average price including the demand charge? Just for the last
8 year, would that --

9 MR. BOB PETERS: That would be helpful and
10 that --

11 MR. DAVID CORMIE: -- so that you could see
12 the affect of the demand charge on the revenue? It would
13 help us a lot if we didn't have to go back this many years
14 because that would involve quite a bit of work if -- but
15 although I think we could show you the -- the effect of
16 demand charges for the last year.

17 MR. BOB PETERS: That -- that would be
18 actually quite helpful, Mr. Cormie, and there is no need
19 necessary to go back to -- to the beginning of those charts
20 but that would include your -- your entire fiscal 2004 year,
21 is what you're offering?

22 MR. DAVID CORMIE: We can do that, yes.

23 MR. BOB PETERS: All right. Thank you for
24 that then, sir.

25 MS. PATTI RAMAGE: Just to confirm, Mr.

1 Peters, that will be filed with Board counsel alone or -- how
2 will we deal with that?

3 MR. BOB PETERS: In -- in terms of logistics,
4 my experience in other tribunals, Mr. Chairman, that might be
5 helpful is if the Corporation files it on and I'm experienced
6 with -- with blue coloured paper, and labelled confidential
7 and file it only with -- with the Board's secretary and not
8 with Board counsel or other advisors.

9 MR. MICHAEL ANDERSON: Mr. Peters, without --
10 excuse me, Mr. Chair, without intending to interfere with
11 your examination, I did undertake -- understand that there
12 was still a -- an uncertainty in fact as to whether the price
13 information and the filed NRB contracts was made public or
14 not.

15 The witness wasn't able to answer that
16 question and so I'm hoping that having determined that it may
17 provide some comfort to the parties that they are in fact
18 public documents. Thank you.

19

20 --- UNDERTAKING NO. 6: The average demand charges for the
21 months shown on Manitoba Hydro's
22 Exhibit 14 and Manitoba Hydro Exhibit
23 15.

24

25 CONTINUED BY MR. BOB PETERS:

1 MR. BOB PETERS: Let me pick from Mr.
2 Anderson's suggestion to me as polite as it was. That
3 perhaps Mr. Cormie you can determine whether or not the
4 pricing information is in fact a matter of public record at
5 the National Energy Board or whether it is held in
6 confidence?

7 And if it is a matter of public record, then
8 we would appreciate it being filed here. If it is not a
9 matter of public record, then the request for the
10 confidential information still stands in -- in any event.
11 Would that be satisfactory to you, sir?

12 MR. DAVID CORMIE: I can advise that all
13 contracts are not filed with the National Energy Board
14 because all sales contracts are not with U.S. customers. And
15 -- and we only file with the National Energy Board those
16 contracts that are for export outside of Canada.

17 And so, for those contracts that are within
18 the country we still are bound by our confidentiality
19 agreements with these customers. And so there may be some
20 information that may or may not be confidential at the
21 National Energy Board but what you're asking me to is tell
22 you our position and -- and because we have those
23 confidentiality obligations I'm -- I can -- I can confirm our
24 position with the National Energy Board but I still believe
25 that it's best to -- to roll it all up and show it to you in

1 this way so that it can't be dis-aggregated.

2 MR. BYRON WILLIAMS: Mr. Chairman, just in
3 terms of the process for receiving this material
4 confidentially to the Board, I just want to reserve the
5 right. I'd like to talk about whether my clients have any
6 comments on this as well as with my expert.

7 So just -- we may not have any concerns with
8 the process but we -- I will consult with my clients and also
9 with my consultant on that. And if we have anything else
10 we'll get back to the on that matter.

11 We're not raising a concern at this point.
12 I'm just reserving the right to do so.

13 THE CHAIRPERSON: Well, we're going to reach
14 a conclusion on this matter before we receive it. Because if
15 we do receive it in confidence then it'll be held in
16 confidence. Mr. Peters...?

17 MR. BOB PETERS: All right. Thank you.

18 MR. BYRON WILLIAMS: If there's any questions
19 from -- from Manitoba Hydro's counsel we can address that and
20 if it changes my request on the record, then we'll put it on
21 the record. But I think it should be relatively
22 straightforward and I do appreciate Mr. Cormie's
23 clarifications and his assistance.

24 MR. BOB PETERS: Mr. Warden -- oh no, sorry.
25 Still with Mr. Cormie.

1 THE CHAIRPERSON: Excuse me, Mr. Peters, are
2 you going to address a similar matter with respect to Exhibit
3 15, rolling in the costs for the winter of '03/'04?

4 MR. BOB PETERS: Yes, I thought my question
5 included both Exhibit 14 and Exhibit 15, Mr. Cormie; did you
6 understand it to do that?

7 MR. DAVID CORMIE: Yes. We'll include all --
8 all fixed costs in these prices.

9

10 CONTINUED BY MR. BOB PETERS:

11 MR. BOB PETERS: This morning, Ms. Wray filed
12 Manitoba Hydro Exhibit 13 through her counsel which was a
13 request that I made of her late yesterday to add the 2002 and
14 2003 actual results to the IFF statement, Manitoba Hydro
15 03-1; have you that, Mr. Cormie?

16 MR. DAVID CORMIE: Yes.

17 MR. BOB PETERS: And I take it the line that
18 most interests you from a operations point of view is your
19 responsible there for that extra provincial line which in
20 2002 shows \$588 million dollars of revenues as a result of
21 exports?

22 MR. DAVID CORMIE: That line interests me,
23 yes.

24 MR. BOB PETERS: And, in fact, you are
25 largely responsible for getting the number on that -- getting

1 that number on that page?

2 MR. DAVID CORMIE: I wish I had that power
3 but that is under my area of responsibility, yes.

4 MR. BOB PETERS: All right. And what we note
5 here is that the export sales in 2002 were \$588 million
6 dollars and that's considered on a gross basis by the
7 Corporation; is it, Mr. Cormie?

8 MR. DAVID CORMIE: Yes.

9 MR. BOB PETERS: And I think yesterday Ms.
10 Wray was pointing out that you could bring that down to how
11 Manitoba Hydro considers a net export revenue by just
12 subtracting the water rental expenses and the fuel and power
13 purchased expenses; is that correct?

14 MS. LYN WRAY: Maybe I could just elaborate a
15 little bit here. It is true that we have the tradition of
16 subtracting water rental expenses, fuel pur -- fuel and power
17 purchased expenses from the gross export revenue and we get a
18 number that we call "net export revenue".

19 That, however, is not a -- a very precise
20 number. We have yet another version of what net export
21 revenues might be as I alluded to yesterday in the cost of
22 service study. And in that particular case there's a further
23 refinement in which only the water rental fees attributable
24 to export volumes is subtracted.

25 One could go a further step which we haven't

1 done because of the complexity of it and this gets to a
2 question that Mr. Mayer asked yesterday, and that would be to
3 try and determine all of the operating and administrative
4 expenses and other such expenses that might be attributable
5 to export revenues.

6 So, I just wanted to caution that we don't
7 actually have a very precise number that you could say is net
8 export revenues. What we've presented in our material is
9 something of a convention.

10 MR. BOB PETERS: Ms. Wray, that begs the
11 question as to why you calculate it differently for different
12 purposes; is there a -- is there a rationale for that?

13 MS. LYN WRAY: It's just a matter of
14 convenience, I guess, that Mr. Cormie's area gathers the
15 information on export revenues and also on import costs,
16 thermal costs and water rentals. They all appear in a report
17 or information that the Corporation receives.

18 Now, as to the cost of service study, Mr.
19 Wiens could speak more to that but I -- I think they're --
20 they're following more precise rules and indeed that
21 methodology in the Cost of Service study could vary the --
22 the manner in which the net export revenues are calculated.

23 For example, if -- if we were to use the
24 methodology in the NERA report, it would be -- there would be
25 embedded costs that would be attributed.

1 MR. BOB PETERS: We may come back to that
2 later, Ms. Wray but for this purpose, Mr. Cormie, in 2002 the
3 extra provincial revenue for Manitoba Hydro was \$588 million
4 dollars. Is that correct?

5 MR. DAVID CORMIE: Yes.

6 MR. BOB PETERS: Can you tell the Board that
7 in earning that \$588 million dollars, was any of that earned
8 by having to use power imports?

9 MR. DAVID CORMIE: I -- I believe so, yes.
10 The -- the majority of the \$71 million dollars would have
11 been power that was purchased to -- to support the export
12 sales.

13 MR. BOB PETERS: When you say -- and you're
14 getting that \$71 million dollars from the line item called --
15 on Exhibit 13 known as fuel and power purchased, correct?

16 MR. DAVID CORMIE: Yes, I understand though
17 that the \$71 million dollars also includes diesel fuel for
18 our -- our isolated diesel sites. So I -- I cannot -- I'm
19 not responsible for the entire \$71 million dollars.

20 MR. BOB PETERS: All right. But you -- can
21 you explain to the Board just again on a higher level as to
22 why you would import power in a year where your exports are
23 of record magnitude?

24 MR. DAVID CORMIE: There -- there are times
25 when there is insufficient water available to run all of the

1 hydro-generators during the day time and -- and Manitoba
2 Hydro can go to the off-peak market and buy low cost
3 electricity and in effect, save water in its reservoirs at
4 night so that it now has sufficient electricity or sufficient
5 water to run all those generators during the day time.

6 So, we would buy low cost power at night,
7 let's say at a price of -- of twenty dollars (\$20) and sell
8 it in the day time at a price of forty dollars (\$40) and so
9 we incur a twenty dollar (\$20) expense in order to make a
10 forty dollar (\$40) sale and that's -- that's arbitraging the
11 off-peak on-peak price differential.

12 And so we would -- we would incur -- I would
13 expect that the majority of that \$71 million dollars was off-
14 peak power that was purchased in order to sell into a higher
15 priced on-peak office and -- and make significant margin on
16 those transactions.

17 During the winter time, it's difficult to get
18 water out of Lake Winnipeg down to the generating stations
19 because -- on the Nelson River because of the ice effects at
20 the north end of Lake Winnipeg and so we -- we -- it's more
21 economical for us to purchase power to serve those export
22 sales than it is to change our reservoir operations to
23 capture that -- that opportunity and there's better -- more
24 margin to be made by purchasing than to changing the
25 reservoir operations.

1 So, that's -- that's what drives those op --
2 those purchases and -- and the majority of those purchases
3 would occur in the fall and in the winter time.

4 MR. BOB PETERS: Do I take from your answer
5 that you don't plan in advance for those arbitrage
6 opportunities because you don't know what those are going to
7 be?

8 MR. DAVID CORMIE: We -- we do plan in advance
9 for those because we have an expectation of what prices will
10 be in the off-peak during the winter period and what they are
11 in the on-peak.

12 And, for example, this winter we believe that
13 power prices in the United States, at night, might be in the
14 twenty-two (\$22) or twenty-three (\$23) dollar range and the
15 on-peak prices might be in the sixty (\$60) dollar range.

16 So, we know that there's a forty (\$40) dollar
17 spread there that -- and so we would want to buy as much of
18 the -- of the low cost power at night in order to generate
19 margin in the daytime.

20 And so, our computer models are -- are capable
21 of identifying those opportunities and we build that mar --
22 that revenue into our next provincial forecast and we also
23 build in any associated expense and that all forms part of
24 the IFF.

25 MR. BOB PETERS: If I understand your answer

1 then, of that \$71 million dollars of fuel and power
2 purchased, I think your words were, the vast majority is
3 attributed to off-peak purchases to support exports.

4 MR. DAVID CORMIE: I'm -- I'm just reminded
5 that in addition to that, our generating station at -- at
6 Brandon, the coal-fired station, is -- was probably operated
7 during that year.

8 Again, the cost of running Brandon relative to
9 market prices is attractive. And so we will generate energy
10 at -- at that station, again, to take to the more lucrative
11 on-peak market.

12 So, there -- there's a cost both of coal and
13 -- and power purchases which would make up the majority of
14 that expense.

15 MR. BOB PETERS: And does it follow then that
16 approximately, let's say, 10 percent of your total extra-
17 provincial revenue was sourced through power purchases and --
18 and buying at cheaper prices and selling at higher prices?
19 You needed at least \$60 million dollars of additional costs
20 to -- to do that?

21 MR. DAVID CORMIE: If -- if you're saying,
22 from the seventy-one (71), if you were -- if you were just to
23 say 60 million of that was purchases for re-sale, there will
24 be at least \$60 million dollars of -- of extra provincial
25 revenue to off-set that expense.

1 And it would be my estimate that it would be
2 significantly more. The margin from on-peak to off-peak is
3 -- is -- can be two (2) to three (3) to one (1). It -- it's
4 a very lucrative activity.

5 MR. BOB PETERS: Recognizing it's a lucrative
6 activity, do I gather from a previous answer you gave me that
7 you can predict that up to a year in advance?

8 MR. DAVID CORMIE: We make an estimate and --
9 and we build that in. So, that -- that's one (1) of the
10 reasons that there is variability in the outcome of our
11 financial forecasting because the market doesn't always do
12 what we anticipate it.

13 MR. BOB PETERS: For you neither, I guess.

14 MR. DAVID CORMIE: So, those -- those kind of
15 opportunities are -- we -- we deem those to be very low risk.
16 They're -- those off-peak purchases are generally made in
17 real time. We buy at night and sell in the daytime.

18 And they're -- we -- we don't need to purchase
19 that power in advance. They -- they take advantage of the
20 opportunities that are available in -- in the -- day ahead in
21 the real-time markets. And we capture most of that with very
22 little price risk.

23 MR. BOB PETERS: I'm trying to gain a sense
24 as to whether then that approximately \$60 million dollars of
25 this import was planned in advance of that -- in advance of

1 that year. And I'm sensing it probably was. Am I correct on
2 that, Mr. Cormie?

3 MR. DAVID CORMIE: We -- we plan on making
4 off-peak purchases for on-peak resale. And we do that in the
5 short term and in the long-term, recognizing the hydraulic --
6 the ability of our reservoirs to move power from the off-peak
7 to the on-peak.

8 MR. BOB PETERS: You also take advantage of
9 very short term opportunities that exist, maybe arbitrage
10 opportunities as well?

11 MR. DAVID CORMIE: Yes, in that we may find a
12 seller in the market who is selling below market. We would
13 buy from that seller and -- from that seller and -- and re-
14 sell it at the -- the simultaneous transaction. So, there
15 are those kind of arb -- arbitrage opportunities that are --
16 that are buy and immediate resells.

17 MR. BOB PETERS: But, by and large, most of
18 your system planning and the use of imports to support
19 exports is done by design, from what you're telling the
20 Board?

21 MR. DAVID CORMIE: They're anticipated, yes.

22 MR. BOB PETERS: And how -- in relative
23 terms, how much happens by your design and how much is just
24 fortuitous in light of the conditions of a day or a short
25 term opportunity that you could find?

1 MR. DAVID CORMIE: We -- we go through a --
2 an operation planning process that involves preparing an
3 operating plan for the power system as much as a year long.
4 And we update that plan weekly.

5 And weekly updates are necessary because the
6 power system conditions are constantly changing, rainfall,
7 markets, maintenance, contracts are being negotiated.

8 And so the -- this update to the operating
9 plan is a continual process and that operating plan is -- is
10 generated using computer models that maximize the profit of
11 the Corporation over the planning period.

12 And that involves the use of reservoirs to
13 move water from one (1) season to the next, recognizes the
14 ability of our reservoirs to move, purchase off-peak and
15 resell it in the on-peak.

16 And so that process is continually maintained
17 and updated and takes full advantage of our capability in the
18 market place.

19 MR. BOB PETERS: When you're telling the
20 Board that part of your plan includes power purchases to
21 support export transactions; are those power purchases at
22 prices that are somehow tied to your export prices or are
23 they strictly market prices?

24 MR. DAVID CORMIE: Those will be at -- at
25 market price.

1 MR. BOB PETERS: Market prices for which you
2 have an estimate as much as a year in advance?

3 MR. DAVID CORMIE: Yes. We have a forward
4 price view of both the on-peak and the off-peak market that
5 reflects our -- our -- the historical behaviour of the
6 marketplace, as well as the -- the -- the factors that drive
7 the prices to change, such as the natural gas price.

8 MR. BOB PETERS: On these fuel and power
9 purchase expenses, particularly the power purchase expenses,
10 when there are short term ones to support power, you've told
11 us before that you can lose money on them, and those ones are
12 often entered into in -- some months in advance; is that
13 correct?

14 MR. DAVID CORMIE: That's what I said, yes.

15 MR. BOB PETERS: So that tells the Board that
16 you enter into the power purchase arrangement on a short term
17 basis because you feel the market will be favourable but
18 between the time that you commit to it and the time it
19 happens, circumstances have turned against you?

20 MR. DAVID CORMIE: Are you referring to power
21 purchase agreements or the export sale contracts?

22 MR. BOB PETERS: No, just the power purchase
23 agreements?

24 MR. DAVID CORMIE: I think I indicated to you
25 that we have lost money on a -- an export sale commitment. I

1 didn't indicate that we made an off-peak purchase, that we
2 lost money on it.

3 MR. BOB PETERS: All right. So on off peak
4 purchases you don't have any circumstances where you will --
5 will have lost money?

6 MR. DAVID CORMIE: I -- I can't think of one
7 (1), no.

8 MR. BOB PETERS: Do you enter into any
9 hedging transactions with respect to power purchase
10 arrangements?

11 MR. DAVID CORMIE: Last year we -- we -- we
12 had quite an extensive hedging program to hedge both the
13 supply and the price risk associated with our power purchase
14 activities.

15 MR. BOB PETERS: And was this hedging --
16 hedging program through the use of financial instruments?

17 MR. DAVID CORMIE: No. It was all physical
18 delivery.

19 MR. BOB PETERS: Can you just briefly explain
20 to the Board members how that works?

21 MR. DAVID CORMIE: The difference between a -
22 - a financial transaction is that your counter-party is going
23 to keep you whole financially that -- that if you -- if the
24 conditions of the contract require the seller to pay out, he
25 will -- you will receive some income and that will be used --

1 that will -- that will be a flow to the Corporation.

2 A financial transaction is -- or a physical
3 transaction is when we actually need the power and we want --
4 and want and will take delivery of the electricity. And --
5 and so we'll enter into a forward purchase contract where we
6 recognize that we need the power, the lights have to stay on.

7 We don't just need to have -- to be -- to have
8 a cheque coming to the bank and so we need to lock in a
9 supply. We need to arrange for the transmission so that that
10 supply can be delivered and we need to have that at a fixed
11 price.

12 And so we're hedging not just the financial
13 risk associated but the risk of -- of having delivery. We
14 actually need the electricity rather than just the price
15 protection that is afforded by a financial instrument.

16 MR. BOB PETERS: Mr. Cormie, moving on Exhibit
17 13 forward to the drought year of 2004, the Board will note
18 that your extra provincial sales on a gross basis were \$394
19 million and your fuel and power purchased was \$480, correct?

20 MR. DAVID CORMIE: That's correct.

21 MR. BOB PETERS: And can you indicate to the
22 Board, of the fuel and power purchased, how much of that was
23 to support exports?

24 MR. DAVID CORMIE: Manitoba Hydro was a net --
25 net purchaser of electricity, so a portion of those purchase

1 costs were necessary to serve the -- to serve the domestic
2 load but the majority of those costs would have been incurred
3 to serve our export obligations.

4 MR. BOB PETERS: And the export obligations
5 would have only been long-term fixed contracts and no
6 opportunity sales?

7 MR. DAVID CORMIE: That's correct.

8 MR. BOB PETERS: And when you say the majority
9 of the four hundred and eighty (480), can you be more precise
10 with that number?

11

12 (BRIEF PAUSE)

13

14 MR. DAVID CORMIE: I -- not at thi -- not at
15 the present time, I can't.

16 MR. BOB PETERS: Is that a number that you
17 could consider and get back to me by way of an undertaking?

18 MR. DAVID CORMIE: We can -- we can estimate
19 it for you, Mr. Peters, yes.

20 MR. BOB PETERS: All right. Thank you for
21 that.

22

23 --- UNDERTAKING NO. 7: More precise calculation of what
24 portion of the \$480 million of
25 fuel purchases were allocated to

1 each domestic service and to serve
2 export obligations.
3

4 CONTINUED BY MR. BOB PETERS:

5 MR. BOB PETERS: Mr. Warden, in the few
6 minutes before the lunch recess, maybe you and I can cover
7 off just a couple of other areas. We -- we started talking
8 this morning about why Manitoba Hydro needs to come to this
9 Board for a rate increase and you've -- you've given some
10 explanations. You tied it primarily to the drought; we've
11 already talked about some of those issues.

12 Would you agree with me, sir, that it is the
13 reduction in your retained earnings that is -- that is
14 ultimately the factor that leads you to come forward to the
15 Board?

16 MR. VINCE WARDEN: As a result of the drought,
17 yes.

18 MR. BOB PETERS: Well, I appreciate you've
19 qualified it; my question didn't. So when you're retained
20 earnings dropped, if I go back to Tab 2 of the book of
21 documents that we circulated, when your retained earnings
22 dropped...

23

24 (BRIEF PAUSE)

25

1 MR. BOB PETERS: The retained earnings and I
2 don't have it here on page -- the page number 33 included in
3 Tab 2, but it was sitting about \$1.2 billion or somewhere in
4 that neighbourhood and I know it's in the materials but I
5 don't have it at my mater -- my fingertips.

6 MR. VINCE WARDEN: \$1.2 billion was the right
7 number at the end of 2003, yes.

8 MR. BOB PETERS: All right. So it went from
9 1.2 billion and then in your drought year you're sitting at
10 \$759 million in retained earnings, correct?

11 MR. VINCE WARDEN: That's correct, yes.

12 MR. BOB PETERS: And it may be a higher level
13 review with slightly different numbers found at Tab 1 of my
14 book of documents, which was the actual and forecast net
15 income and retained earnings statements from your filing.

16 I'm asking if you'll agree with me, Mr.
17 Warden, that it was the precipitous drop in retained earnings
18 that was the overriding factor for the Corporation to come
19 forward with a Rate Application before this Board?

20 MR. VINCE WARDEN: Yes. Yes, I agree with
21 that.

22 MR. BOB PETERS: And would you then also
23 agree that the factors that contributed to that reduction in
24 rate -- in retained earnings all contributed to your decision
25 to come forward for a rate increase?

1 MR. VINCE WARDEN: In fiscal year -- the
2 factors that contributed in fiscal year '03/'04, are you
3 referring to, Mr. Peters?

4 MR. BOB PETERS: Just any factors that led to
5 the decline in your retained earnings, or factors in the
6 overall decision to come forward to this Board for a rate
7 increase.

8 MR. VINCE WARDEN: Well, I -- I wouldn't
9 necessarily agree with that. I think that as we all know,
10 there was a reduction in retained earnings the year previous
11 because of the payment to the Province. And we indicated
12 that that would not precipitate a -- a rate increase and
13 that's still our position.

14 MR. BOB PETERS: No, I -- okay, I accept
15 that. But it's not -- is there -- is there just one (1)
16 factor that contributed to the reduction in your retained
17 earnings that brings you before the Board? Or are there a
18 multitude of factors?

19 MR. VINCE WARDEN: Well, absent the drought
20 in 2003/'04, we -- we would have had a -- a small increase to
21 retained earnings. So, it was the -- certainly, the factor,
22 the one (1) factor that caused retained earnings to decrease
23 in that year, yes.

24 MR. BOB PETERS: All right, and now Mr.
25 Cormie is telling you the drought is over and does that give

1 you comfort?

2

MR. ROBERT MAYER: It's half over.

3

4 CONTINUED BY MR. BOB PETERS:

5

MR. BOB PETERS: I'm being corrected here.

6

Mr. Cormie, the -- the eastern water sheds, you're saying, it is over. Is that correct?

7

8

MR. DAVID CORMIE: I -- I think, Mr. Peters,

9

the -- the point is that -- that we're exposed to drought risk next year. There's no guarantee that we are going to achieve the results that are forecast in the IFF next year, or the year after, or the year after. That there's drought risk in each and every year.

10

11

12

13

14

All we know that, this year, is the drought

15

risk has been, essentially it's gone away because we're in a -- in a period of high flows. So, you know, it's over for now and it will be back. The question is, will it be back next year, or the year after, or the year after?

16

17

18

19

MR. BOB PETERS: Well, let's be clear. The

20

Vice-Chair wants to be clear. Is it over? Is it half over?

21

Or whereabouts are we at with the?

22

23

MR. DAVID CORMIE: Well, it's half over this

24

year.

25

MR. BOB PETERS: Because the year is half

over?

1 MR. DAVID CORMIE: No, because half our water
2 sheds are still in drought.

3 There -- there is still about 6 million
4 megawatt hours of uncertainty associated with our forecast.
5 And because we know we're only in June and the year has
6 another nine (9) months to go.

7 If it stops raining tomorrow, we will not
8 generate 6 million megawatt hours of hydro-production and --
9 and we will have to incur some expense to -- to cover off the
10 costs associated with serving load if it stops raining
11 tomorrow.

12 So, we are still exposed to some uncertainty
13 this year. It's much less than the uncertainty that we faced
14 last year. And we're facing water sheds in Western and
15 Northern Canada that have yet to see the rainfall that we've
16 experienced here in Winnipeg.

17 So, there is risk. It's not clear -- it's
18 clearly not the risk that we had last year and so I think Mr.
19 Mayer's correct. It's -- it's over in this part of the
20 world. It's not over in other parts of the world and we face
21 drought risk down the road.

22 MR. BOB PETERS: And, Mr. Warden, in terms of
23 the requested rate increases, will you acknowledge that these
24 requested rate increases are not designed to achieve any
25 specific financial target in the -- in the test years?

1 That is, you're not seeking a rate increase in
2 '05 or '06 to reach any specific financial target in those
3 two (2) years?

4 MR. VINCE WARDEN: No, that's -- that's
5 correct. Our financial targets are set. Let me back up on
6 that.

7 Our -- our debt equity ratio target is set
8 over the long-term; however, the capital coverage -- interest
9 coverage targets our short term. So we are still striving to
10 retain those annual targets but recognizing that the rate
11 increase that we've requested will not get us totally there.

12 MR. BOB PETERS: And you don't have a
13 specific level of reserves or retained earnings that you're
14 using as a target at this point?

15 MR. VINCE WARDEN: For the fiscal year
16 '04/'05 and '05/'06, no.

17 MR. BOB PETERS: Thank you. Mr. Chairman, in
18 light of the hour, this would be a good time to --

19 MS. LYN WRAY: Excuse me, Mr. Peters, could I
20 just add one (1) thing on this debate about how retained
21 earnings have been affected by drought.

22 One (1) of the things we've noticed is that
23 the impact in 2002/3 has been somewhat overlooked. We did
24 start seeing a drought in that year and if we use this rather
25 simplified method of -- of looking at export revenues minus

1 water rentals minus net import costs, the impact in that year
2 was something in the order of \$67 million dollars off our
3 retained earnings.

4 That's just from those factors without taking
5 into account the interest effect, and there would have been
6 one (1). And then for the 2003/4 year, again, if you look at
7 the change in our net exports, so defined, you would be in
8 around \$503 million dollars hit on our retained earnings.

9 So taking those two (2) together it was, for
10 the two (2) years, a \$540 million dollar drain on our
11 retained earnings without taking into account interest
12 effects.

13 Very simply, the interest effects on an annual
14 basis, going forward as well, are at least \$40 million
15 dollars a year. And this is also without taking into account
16 the somewhat higher loss or perhaps significantly higher loss
17 that we'll be looking at for the current year.

18 So, what -- whichever way you cut it, you're
19 looking at an impact on our retained earnings in excess of
20 \$600 million dollars plus ongoing interest costs. I think
21 that's important to -- to look at in terms of why we think we
22 need a rate increase going forward.

23 MR. BOB PETERS: Thank you, Ms. Wray. This
24 would be a good time, from my perspective, Mr. Chair, subject
25 to the Board's questions, to adjourn for lunch.

1 THE CHAIRPERSON: Yes, thank you very much.
2 We'll stand adjourned until two o'clock.

3

4 --- Upon recessing at 12:02 p.m.

5 --- Upon Resuming at 2:02 p.m.

6

7 THE CHAIRPERSON: Mr. Peters...?

8 MR. BOB PETERS: Thank you, Mr. Chairman.

9 Good afternoon.

10

11 CONTINUED BY MR. BOB PETERS:

12 MR. BOB PETERS: In terms of the starting
13 point for Manitoba Hydro's planning for energy requirements,
14 does Manitoba Hydro start with a load forecast?

15 MR. HAROLD SURMINSKI: Yes, that's correct,
16 Mr. Peters.

17 MR. BOB PETERS: And Mr. Surminski, can you
18 give us a very high level brief overview as to how that's
19 done?

20 MR. HAROLD SURMINSKI: I'm sorry, do you mean
21 the load forecast itself?

22 MR. BOB PETERS: Yes, sir.

23 MR. HAROLD SURMINSKI: Mr. Kuzcek, who will be
24 on the next panel is directly responsible for the load
25 forecast and it would be most appropriate for him to give you

1 that description.

2 MR. BOB PETERS: All right and then in terms
3 of questions specifically involving the load forecast, those
4 questions should also, Ms. Ramage, from your panel's
5 perspective, be deferred to the next panel?

6 MS. PATTI RAMAGE: That's correct.

7 MR. BOB PETERS: Mr. Mayer's wish is being
8 granted, we're moving along quicker than anticipated.

9

10 (BRIEF PAUSE)

11

12 CONTINUED BY MR. BOB PETERS:

13 MR. BOB PETERS: Mr. Chairman, I'll defer
14 those questions that I had on the load forecast and supply to
15 the next panel with the exception of one (1), Mr. Surminski,
16 if you could take it back and perhaps Mr. Kuzcek and you
17 could come up with an answer by way of an undertaking.

18 In the booklet of materials that I've
19 prepared, there's a Tab 6 and I'm not sure if you've had a
20 chance to review it or not but it's a monthly schedule of net
21 firm energy. It's Table 13. It was found at Volume II
22 Appendix 6.1 Page 38 of the materials, for reference.

23 Do you have that, sir?

24 MR. HAROLD SURMINSKI: Yes, I have looked at
25 it previously also.

1 MR. BOB PETERS: And if you did look at it
2 previously, you will see that for the year ending 2003,
3 there's an actual number of twenty-one thousand nine hundred
4 and forty (21,940) gigawatt hours of energy, correct?

5

6

(BRIEF PAUSE)

7

8

MR. HAROLD SURMINSKI: Yes.

9

MR. BOB PETERS: And that represents the
10 actual -- the actual domestic load?

11

MR. HAROLD SURMINSKI: Yes, it does -- I
12 believe these numbers do not include the station service in
13 our system but it is our domestic load.

14

MR. BOB PETERS: And when you say station
15 service, can you explain that please?

16

MR. HAROLD SURMINSKI: Station service is --
17 is the power required by our generating facilities
18 themselves. The power consumed by the facilities like
19 lighting, heating, et cetera.

20

MR. BOB PETERS: Can you advise me as to
21 whether the number 4 fiscal '04 will be known at this point
22 because it appears as a forecast right now at twenty-two
23 thousand one hundred and seventy-one (22,171)?

24

MR. DAVID CORMIE: We know what that number is
25 now, Mr. Peters.

1 MR. BOB PETERS: And that's my question, if
2 you could provide that. Do -- do you know it right now?

3 MR. DAVID CORMIE: I can get it for you.

4 MR. BOB PETERS: By way of undertaking or --

5 MR. DAVID CORMIE: Yes.

6 MR. BOB PETERS: All right. Then thank you
7 for that.

8

9 --- UNDERTAKING NO. 8: Domestic load number for the
10 fiscal year 2004.

11

12 MR. ROBERT MAYER: That doesn't include
13 exports at all?

14 MR. DAVID CORMIE: That doesn't include the
15 exports or the losses on the system associated with the
16 exports or the energy used by our surplus energy program
17 customers.

18

19 (BRIEF PAUSE)

20

21 CONTINUED BY MR. BOB PETERS:

22 MR. BOB PETERS: Mr. Surminski, in your
23 direct evidence through to your Counsel you had indicated
24 that Manitoba Hydro had been of the view that the -- if the
25 worst drought on record reoccurred, it could have financial

1 consequences of \$1.1 billion dollars to the Corporation.

2 Is that correct?

3 MR. HAROLD SURMINSKI: Yes, that's correct.

4 MR. BOB PETERS: And wh -- when did that worst
5 drought on record occur? Was that the 1998 through to 1992
6 years?

7 MR. HAROLD SURMINSKI: It was '87 to '88 to
8 '91, '92.

9 MR. BOB PETERS: Are you using fiscal years
10 when -- when you speak?

11 MR. HAROLD SURMINSKI: Yes, we generally are
12 because the water year generally begins in -- however the
13 significant water in -- in April of the year.

14

15 (BRIEF PAUSE)

16

17 MR. ROBERT MAYER: Mr. Surminski, somebody
18 also said that, that could -- that number could go as high as
19 \$2 billion in future forecasts.

20 MR. HAROLD SURMINSKI: Yes, I -- I gave that
21 as an estimate in my direct.

22

23 CONTINUED BY MR. BOB PETERS:

24 MR. BOB PETERS: In the -- in the worst
25 drought on record years, that you've talked about, from '88

1 to '92, if that was to reoccur starting in 2004, is that the
2 Corporation's estimate as to where the \$1.1 billion would --
3 would derive?

4 MR. HAROLD SURMINSKI: Yes, I believe that's
5 correct. We could refer to -- to the information that you
6 had provided in your package.

7 MR. BOB PETERS: Before I do that, can you
8 turn to document number 11 which is a response to a PUB-MH-
9 II-IR-39, found at Tab 11 of the booklet of documents that I
10 prepared?

11 MR. HAROLD SURMINSKI: Yes, I have it.

12 MR. BOB PETERS: Under the year 2004, there
13 was forty-five point four (45.4) thousand cubic feet per
14 second, as I understand it, in-flows available into Lake
15 Winnipeg. Is that the correct reading?

16 MR. HAROLD SURMINSKI: Yes, 44,400 cubic feet
17 per second average for the twelve (12) month period, April to
18 March.

19 MR. BOB PETERS: Are you able to provide
20 similar data for the years 1929, '30 and '31? Does the
21 Corporation have that in similar format?

22 MR. HAROLD SURMINSKI: We do. We supplied it
23 in similar format in response to an interrogatory. I don't
24 have it at my fingertips right now.

25 MR. BOB PETERS: Did that interrogatory also

1 include all the years to current?

2 MR. HAROLD SURMINSKI: It was the period 1912
3 to 1997, which is the eight-six (86) year period that we use
4 in our simulation forecasting. So that -- that was the
5 reason we responded to the -- to the interrogatory in that
6 way. Because that was the -- the period we used in our
7 simulation studies.

8 Further, I do have the interrogatory. It was
9 PUB-MH-I-IR-29(B). And it does have the 1929.

10 MR. BOB PETERS: In document number 14, which
11 is attached, in the book of documents, It's a response to
12 PUB-MH-I-IR-63 and this is the Corporation's calculation of
13 the \$1.1 billion impact for a repeat of the worst drought on
14 record. Correct?

15 MR. HAROLD SURMINSKI: Yes, correct. And --
16 and I note, the -- the first year is the 2005/6, coinciding
17 with the flow-year 1988 and '87/'88.

18 MR. BOB PETERS: All right, so that's a
19 correction on the question I'd asked previously.

20 MR. HAROLD SURMINSKI: That's right.

21 MR. BOB PETERS: Thank you for that. Does
22 this table incorporate climate changes?

23 MR. HAROLD SURMINSKI: No, we do not consider
24 specific aspects of climate change in -- in our flow
25 forecasts.

1 MR. BOB PETERS: Does it include
2 consideration to whether the Province of Saskatchewan reduces
3 their water flows that come through to Manitoba?

4 MR. HAROLD SURMINSKI: Yes, we have
5 considered flow reductions, consumptive uses on the
6 Saskatchewan River.

7 MR. BOB PETERS: And what's the basis of your
8 information for including that in your forecast?

9 MR. HAROLD SURMINSKI: Well, we have -- we
10 have information that consumptive uses have been increasing
11 over the years. There are greater demands for water in the
12 South Saskatchewan River, over from Alberta into
13 Saskatchewan. Irrigation, other consumptive uses have been
14 increasing over time so we -- we investigated this probably
15 close to ten (10) years ago now.

16 It was a special study of the South
17 Saskatchewan River and we used -- it was a Federal, partly
18 Federal, study. And we used results from that study to --
19 and that -- study predicted and gave estimates of further
20 reductions of consumptive uses up to the period of 2020.

21 So, we used the results from that study in the
22 future predictions of flows and how much the reduction should
23 be on the -- on the Saskatchewan River coming into Manitoba.

24 MR. BOB PETERS: Mr. Surminski, can the
25 impact of a five (5) year drought, as you've recorded it

1 there in Document Number 14, can that still happen starting -
2 - starting this year based on the precipitation we've had?

3 MR. HAROLD SURMINSKI: Well, not to the
4 extreme of the '87/'88 considering where we are right now.

5 MR. BOB PETERS: Just so I'm clear, we've
6 distanced ourselves from the -- from the drought year
7 sufficiently now that we would have to start all over again
8 for a new five (5) year cycle of the worst drought on record
9 to start?

10

11

(BRIEF PAUSE)

12

13 MR. HAROLD SURMINSKI: Yes. I think that's
14 right. We -- with our storage situation and our reservoir
15 storage being normal and above normal, we pretty well start
16 again and -- and go into -- into a whole new cycle of a
17 drought if we were to -- according to -- to this pattern.

18 MR. BOB PETERS: The whole premise, Mr.
19 Warden, of -- of showing the impact of five (5) year drought
20 would be to try to draw to the Board's attention that the --
21 that the reserved or retained earnings that have been built
22 up could be wiped out by a continuation of adverse weather.

23 Do you agree with that?

24 MR. VINCE WARDEN: Yes, yes. I agree with
25 that.

1 MR. BOB PETERS: Can you explain to the Board
2 in principle, why a Crown Corporation such as Manitoba Hydro
3 should even have a reserve?

4 MR. VINCE WARDEN: Well, if the -- if the
5 future was perfectly predictable, there would be no reason
6 for a reserve. The reserve is only there to provide
7 protection to ratepayers against unforeseen events and that,
8 as we've talked about, the major unforeseen event is -- is
9 drought. One (1) of the major unforeseen events.

10 Who knows what's out there that we don't know
11 about, but certainly we do know that drought will occur, on
12 average, about once every ten (10) years and we have to
13 provide for -- for that event.

14 If it were not for drought, and if we could
15 predict the future perfectly though, there's no reason for
16 retained earnings.

17 MS. LYN WRAY: Just to add to what Mr. Warden
18 said, there's also an advantage to taxpayers as well as
19 ratepayers in having reserves. Because if we did run into a
20 circumstance that completely depleted our reserves and we had
21 100 percent debt ratio, it's possible that the -- probably
22 likely that credit rating agencies would no longer regard
23 Manitoba Hydro's debt as self-supporting for purposes of
24 evaluating the province's credit rating position.

25 And that, depending on other circumstances,

1 could have an adverse impact on the provincial credit rating
2 and raise the cost of debt.

3 MR. BOB PETERS: What was the highest debt
4 percentage, Ms. Wray, that you recall the Corporation having?

5 MS. LYN WRAY: Just from recollection I think
6 it was about 95 percent many years ago.

7 MR. VINCE WARDEN: Yes, I agree with that
8 answer. It was 9505.

9 MR. BOB PETERS: And when it was 9505 was the
10 province's debt downgraded by bond rating agencies?

11 MR. VINCE WARDEN: Well, it has been -- the
12 province's debt has been upgraded in recent years and whether
13 or not Hydro had an impact on that we don't know for
14 certainty.

15 However, we do know that the bond rating
16 agencies take a very close look at Manitoba Hydro and have
17 always taken comfort from the fact that Manitoba Hydro has
18 the lowest rates in North America and therefore has the
19 capacity to increase rates should that need occur in the
20 future.

21 So, if we went back to a 95:05 temporarily
22 with the low rates we have today and the future was
23 predictable, absent the drought as I said earlier, there
24 wouldn't be the need for the retained earnings that we're
25 striving for now. We do know though the reality is that

1 drought will occur and -- and the impacts of that drought are
2 even greater than we had forecast in the past.

3 MS. LYN WRAY: Yet another advantage of
4 retained earnings are that even if you had complete
5 predictability there would still be some variability in our
6 costs. One (1) of the benefits of reserves is that they
7 allow rate increases to be relatively smooth and predictable
8 rather than up one (1) year, down the next.

9 MR. BOB PETERS: Was there ever a
10 circumstance where as a result of having as high a debt
11 percentage as 95 percent, that the -- that the Province had
12 to infuse cash into the -- into the Corporation?

13 MR. VINCE WARDEN: No.

14

15 (BRIEF PAUSE)

16

17 MR. BOB PETERS: If, Ms. Wray, help me do the
18 quick math on the fly here. If -- if you got to a 75:25 debt
19 equity ratio, does that translate through to having a reserve
20 of \$2.5 billion?

21 MS. LYN WRAY: It depends on what year you
22 get there and what the -- the capital structure would be at
23 that time. Which year were you thinking of?

24 MR. BOB PETERS: Well let's take it out to
25 your -- your planned scenario of 2011/12.

1 MS. LYN WRAY: I'm not sure I can do it on
2 the fly just because the sinking funds aren't evident on our
3 balance sheet and you have to subtract them. But we could
4 very quickly, I'm sure, get that number for your. I don't
5 think it would be as high as \$2.5 billion. But I could be
6 wrong about that.

7

8

(BRIEF PAUSE)

9

10 MS. LYN WRAY: Doing my sort of back
11 calculation and looking at 2012, if 15 percent equity equates
12 to one one two three (1123) plus two five two (252) being the
13 retained earnings and contributions in aid of construction,
14 then if you had 25 percent equity I think it would be total
15 of one point eight seven one (1.871).

16 And then if you subtract the contributions in
17 aid of construction you would be looking at retained earnings
18 of \$1.6 billion, I think.

19 MR. BOB PETERS: That's why I asked you to do
20 it. I was just taking the assets and multiplying it by 25
21 percent going forward.

22 MS. LYN WRAY: We can -- we can take a double
23 check on that.

24 MR. BOB PETERS: All right. Let's --

25 MR. VINCE WARDEN: One (1) -- one (1)

1 indicator, Mr. Peters, that we could probably give you is the
2 IFF '02, when in fact we did reach 75:25 by our target date
3 of 2012. Retained earnings at that point and time were \$2
4 billion.

5 MR. BOB PETERS: And Mr. Surminski, you also
6 said that if the stars aligned in the worst case scenario,
7 you could paint a picture where Manitoba Hydro's risk could
8 be \$2.2 billion, did you not?

9 MR. HAROLD SURMINSKI: Yes and in -- in an
10 extreme case of the factors all being adverse.

11 MR. BOB PETERS: But that's not the basis on
12 which the planning goes forward at this point in time?

13 MR. VINCE WARDEN: Sorry, would you repeat
14 that question?

15 MR. BOB PETERS: You're not -- you're not
16 using Mr. Surminski's absolute worse case assumptions in
17 doing your -- your planning, going forward, for what the
18 impact can be on the corporation?

19 MR. VINCE WARDEN: Well, every time we update
20 our financial forecast we take current information into
21 account. So, I would expect when we go to the -- back to our
22 Board in the fall of 2004, that we'll -- we certainly will
23 take into account the -- the \$2 billion number, and perhaps
24 revise our -- our estimate at that point in time.

25 MR. BOB PETERS: In terms of the thermal

1 plants that you have, Selkirk was converted from coal to
2 natural gas in approximately June of 2002, is that correct?

3 MR. HAROLD SURMINSKI: That is correct.

4 MR. BOB PETERS: Is it fully functioning?

5 MR. HAROLD SURMINSKI: It is.

6 MR. BOB PETERS: And what was the approximate
7 cost of -- of conversion?

8 MR. DAVID CORMIE: We'll have to get that for
9 you, Mr. Peters.

10 MR. BOB PETERS: And in Brandon, you've
11 installed a gas turbine also in 2002?

12 MR. DAVID CORMIE: We've installed two (2)
13 simple cycle combustion turbines, yes.

14 MR. BOB PETERS: And what was that total cost?

15 MR. VINCE WARDEN: We located the costs for
16 the -- the Selkirk conversion was 29 million, and I believe
17 Selkirk was one eighty-six (186).

18 MR. DAVID CORMIE: Brandon was one sixty
19 (160).

20 MR. VINCE WARDEN: Or Brandon, I'm sorry.

21 MR. DAVID CORMIE: 160 million.

22 MR. VINCE WARDEN: One eighty-seven (187) was
23 -- is the actual number.

24

25

(BRIEF PAUSE)

1 MR. BOB PETERS: That had the capacity
2 addition of about two hundred and fifty (250) megawatts?

3 MR. DAVID CORMIE: Approximately, yes.

4 MR. BOB PETERS: Can you indicate to the Board
5 why Manitoba Hydro thought it necessary to -- to bring on the
6 gas turbines?

7 MR. DAVID CORMIE: The -- the gas turbines
8 were justified in the -- they increased the dependable
9 capability of Manitoba Hydro's power system. That allows
10 Manitoba Hydro to sell more energy in the -- in the forward
11 markets, capturing the premiums that are had from long term
12 firm sales, and -- and that was the reason it was justified,
13 based upon our ability to make extra long term firm sales.

14 MR. BOB PETERS: What's the approximate cost
15 per kilowatt hour that Manitoba Hydro is incurring as a
16 result of the turbine generation?

17 MR. DAVID CORMIE: The cost of energy produced
18 at the generating stations is a function of the cost of
19 natural gas. The heat rate on those machines is
20 approximately twelve (12) and a half decatherms per megawatt
21 hour. And a decatherm of natural gas is a little bit smaller
22 than a gigajoule of natural gas, but -- but it's
23 approximately the same.

24 In the market today, natural gas is about six
25 dollars (\$6) US per decatherm, with a twelve (12) and a half

1 heat rate, that would be approximately seventy-five dollars
2 (\$75) US per megawatt hour, plus the cost of start up, which
3 would put it in the eighty dollar (\$80) per megawatt hour US
4 range.

5 If the price of natural gas were to jump to
6 ten dollars (\$10) a megawatt -- ten dollars (\$10) a
7 decatherm, then we would be talking of power prices from the
8 combustion turbines in the order of a hundred and thirty
9 (130) to a hundred and forty dollars (\$140) a megawatt hour
10 US.

11 MR. BOB PETERS: Are those turbines running
12 today?

13 MR. DAVID CORMIE: No, they're -- they're not
14 running today. It's -- it's very likely at the time that
15 they would ever be considered as a source of power, that we
16 could go to the market and buy electricity at a lower cost.

17 So, the -- the role of the -- the stations --
18 the gas turbines at Brandon is one (1) of -- of a backup, to
19 ensure that there is a supply. However, it will be very
20 expensive to produce electricity there. But we can count on
21 that electricity being there.

22 MR. BOB PETERS: Do I take from that answer
23 then, that these plants are seldom run because the cost is --
24 is higher than -- than other market sources of energy?

25 MR. DAVID CORMIE: Yes, and that was

1 exemplified very well this last winter where we -- we -- we
2 assumed that they would operate. They gave us the comfort
3 that they would -- we would be able to produce electricity
4 there.

5 But each day when we determined how best to
6 serve our requirements, almost 99 percent of the days last
7 winter we were able to go to market and buy lower cost power.
8 But our -- our -- our supply assurance was -- was known
9 because we had the capability in Manitoba and we were
10 prepared to run them if interruptible power purchases were
11 not available.

12 And -- and -- or if the price in the
13 marketplace was higher than our cost of running the
14 combustion turbines, we have a hedge against prices higher
15 than the cost of generation.

16 MR. BOB PETERS: When Manitoba put in the
17 combustion turbines into Brandon, what was Manitoba Hydro
18 expecting the cost of gas to be?

19

20

(BRIEF PAUSE)

21

22

23 MR. DAVID CORMIE: I believe at the time
24 Manitoba Hydro's long term forward price view was natural gas
25 prices in the three (3) to four dollar (\$4) range. US per
decatherm.

1 MR. BOB PETERS: All right. And now you've
2 told the Board that that has, essentially, doubled?

3 MR. DAVID CORMIE: Well, natural gas prices
4 fluctuate based upon market conditions. Prices are in the --
5 in the six dollar (\$6) range now. Our view in the long term
6 is that this price is not sustainable and that -- that lower
7 prices can be expected.

8 So, yes, today the prices are much higher than
9 we assumed. But what the prices will be a year or two (2)
10 years or three (3) years in our expectation that they will
11 come off slightly.

12 MR. BOB PETERS: Is there -- is there any
13 expectation by Manitoba Hydro that the price will go up to
14 ten dollars (\$10) a decatherm?

15 MR. DAVID CORMIE: There's always a -- a risk
16 that short term natural gas prices could reach ten dollars
17 (\$10). When we were looking at the risks associated with our
18 supply requirements last summer for winter delivery, --
19 natural gas prices in the fourteen dollar (\$14) range per
20 decatherm were -- were indicated at the 98 percent confidence
21 interval.

22 So, the average -- the expected price although
23 it was around six dollars (\$6) but there was some small
24 chance that prices could be as high as fourteen dollars
25 (\$14).

1 And -- but conversely, there was a possibility
2 that prices would be lower than that.

3 MR. BOB PETERS: Can you indicate, Mr. Warden
4 or Ms. Wray, what is the dollar value of the net assets on
5 the balance sheet associated with these gas turbines at
6 Selkirk and Brandon?

7 MR. VINCE WARDEN: Well, the -- the numbers
8 we just gave would be the -- essentially the value of the net
9 assets. There would be some small depreciation that had
10 occurred since the units were installed.

11 But \$187 million at Brandon and \$29 million at
12 -- at Selkirk.

13 MR. BOB PETERS: Mr. Warden, recognizing that
14 their use is -- is, at this point, questionable in light of
15 market gas costs, has Manitoba Hydro considered writing down
16 these assets?

17 MR. VINCE WARDEN: Oh, no. They're still --
18 they still have the value that they had before when they were
19 installed. And it should point out too that high natural gas
20 prices overall are positive for Manitoba Hydro from the
21 electricity side of the business on the export market because
22 that means there's high prices on the export market.

23 So, although it's bad for consumers on the gas
24 side of the business, nevertheless because gas prices are the
25 marginal cost of generation and the export market, that has a

1 benefit to us when we're selling electricity there.

2 MR. ROBERT MAYER: Mr. Warden, it is my
3 understanding that you can't talk about Selkirk and Brandon
4 in the same breath; we're talking apples and oranges here,
5 are we?

6 MR. VINCE WARDEN: Yes, that's right.

7 MR. ROBERT MAYER: It's my understanding that
8 the -- the -- alls you did at Selkirk is replaced natural gas
9 as the fuel for the -- the thermal plant when it used to be
10 coal?

11 MR. VINCE WARDEN: Correct.

12 MR. ROBERT MAYER: And at Selkirk you've got
13 the simple cycle combustion turbines?

14 MR. VINCE WARDEN: At Brand -- at Brandon,
15 yes.

16 MR. ROBERT MAYER: Brandon. And those things
17 can literally be started up and fired up immediately. They
18 can be used both to -- used to deal with your reserve
19 requirements. And also as I understand it, it's a
20 reliability factor for domestic use?

21 MR. VINCE WARDEN: Absolutely, yes.

22 MR. DAVID CORMIE: Mr. Mayer, the -- from an
23 efficiency perspective though, they are equivalent. They
24 both consume the same amount of natural gas to produce a unit
25 of electricity.

1 MR. ROBERT MAYER: I understand that, but how
2 quickly could -- if you have your Selkirk unit shut down or
3 not in use, how long does it take before it can actually
4 efficiently supply power.

5 MR. DAVID CORMIE: Oh, you're correct there,
6 it takes, you know, twelve (12) hours to bring Selkirk up to
7 speed, we can have the combustion turbines in Brandon up to
8 speed and generating electricity within half an hour.

9

10 CONTINUED BY MR. BOB PETERS:

11 MR. BOB PETERS: Thank you. And turning to
12 some of the risks that we've -- we've talked about. Included
13 in that book of materials that has been prepared, is a copy
14 of the Information Request that MIPUG asked of Manitoba Hydro
15 in the First Round Number 3, for various risk scenarios?

16 You'll find that at Tab 15.

17

18 (BRIEF PAUSE)

19

20 MR. BOB PETERS: In terms of these scenarios,
21 Ms. Wray, was it you who ran them?

22 MS. LYN WRAY: Yes, Financial Planning
23 Department ran them.

24 MR. BOB PETERS: And I'm not going to go
25 through them all in depth, but I want to make sure the Board

1 will understand them on -- on review of the record.

2 When you ran a risk for the worsening of the
3 drought, it showed that retained earnings would fall from
4 \$708 million down to \$256 million, if I read your -- your
5 analysis correctly?

6 MS. LYN WRAY: Subject to check, yes.

7 MR. BOB PETERS: All right. And then
8 similarly for the other risks that were listed. You ran the
9 same scenario, and you incorporated into it the -- the
10 variable that was requested in the question?

11 MS. LYN WRAY: Yes.

12 MR. BOB PETERS: And, Ms. Wray, would you
13 agree with me that the worsening of the drought was the only
14 significant risk of those ones that -- that was analyzed in
15 light of the results on the retained earnings?

16 MS. LYN WRAY: Well, it was certainly the most
17 significant, and within the parameters that we adjusted for
18 the other risks, you know, for example, a 1 percent variation
19 in inflation, and a 1 percent variation in interest. We ran
20 some other ones I believe, but by far the largest impact on
21 retained earnings was drought.

22 MR. BOB PETERS: And you come to that
23 conclusion, Ms. Wray, the same way I did, and that was by
24 comparing what would be the impact on the retained earnings
25 over the planning horizon?

1 MS. LYN WRAY: Yes, I should say of course
2 that this was not a comprehensive list of risks, inasmuch as
3 the combination of price and volume -- water volume that Mr.
4 Surminski alluded to, is not on that table.

5 MR. BOB PETERS: All right, but does the
6 Corporation acknowledge that importing of energy at higher
7 prices, than their export prices available, is another
8 significant risk than -- than you face?

9 MS. LYN WRAY: Could you repeat the question
10 please?

11 MR. BOB PETERS: Yes, if the Corporation has
12 to, as it apparently did, import energy at prices higher than
13 it can export energy, that in itself creates another
14 significant risk for the company?

15 MS. LYN WRAY: Well, I think if you were in a
16 low water condition, then you'd have to become a net
17 importer, and that coincides with a period of high import
18 prices, then that certainly compounds your financial impact.

19 MR. BOB PETERS: All right. Have you modeled
20 that scenario in any way, in terms of whether the magnitude
21 would be similar to the continuation of the drought, or
22 whether it would be worse?

23 MS. LYN WRAY: If we were to model it on the
24 financial statements, we would use the numbers that Mr.
25 Surminski had alluded to, and I would imagine that instead of

1 the initial impact being in the order of \$1.1 billion over
2 five (5) years, it would be \$2 billion, plus compounded
3 interest. We haven't run that scenario, but obviously it
4 would deplete our retained earnings.

5 MR. BOB PETERS: Mr. Surminski, in the -- in
6 the drought year that I talked with Mr. Cormie of -- of 2004,
7 how much of the loss that occurred in that year do you
8 attribute to the drought?

9 And how much do you attribute to the high
10 energy prices for imports, that you had to -- had to
11 purchase?

12

13

(BRIEF PAUSE)

14

15 MR. HAROLD SURMINSKI: I'm not quite sure of
16 -- of your question. We lose, in a drought year, first of
17 all, we lose a good portion of our export revenues. So,
18 that's one (1) side of the equation.

19 And then, on the other side of the equation,
20 we have to import significant quantities. So, I'm not sure
21 how I could divide up those two (2).

22 MR. BOB PETERS: Well, I -- I gathered from a
23 previous answer that you had -- you had studied all the
24 various risks and I wondered if you could break down the 2004
25 year in terms of the impact of the risk of drought which

1 occurred, and also the risk of high import prices which
2 appeared to also incur -- be incurred?

3

4

(BRIEF PAUSE)

5

6

MR. HAROLD SURMINSKI: We -- we haven't done
7 that analysis, Mr. Peters. Except that when we put the IFF
8 together in the Spring of -- or in the Summer of -- of '03,
9 we were looking at natural gas prices in the three dollar and
10 sixty cent (\$3.60) -- three dollars and seventy cent (\$3.70)
11 U.S. per decatherm.

12

13

14

15

16

And -- and prices have come in this year
around -- around six dollars (\$6) a decatherm, U.S. And so
we've -- we've seen higher prices and -- and -- but not
nearly as -- as low of the volumes that could have occurred
under a worst case drought scenario.

17

18

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22

23

But we -- but we haven't broken down the --
the costs of drought, or the \$600 million that Ms. Wray had
indicated was -- has occurred since the summer of 2002 into
how much of that was price driven and how much of that is
volume driven, compared to the assumptions that we made in
the IFF use -- using our long-term price view and median
flows.

24

25

MR. BOB PETERS: All right. Thank you for
that answer. Ms. Wray, would it be possible to run a new

1 scenario in the -- in the same manner you did under MIPUG-MH
2 I-(3)? But the -- the variable this time would be to have
3 import prices equal to export prices?

4

5

(BRIEF PAUSE)

6

7

MR. HAROLD SURMINSKI: We need a
8 clarification of what you mean by -- by import prices equal
9 to export prices. Export prices at -- at current prices
10 being high? Is that what you mean?

11

MR. BOB PETERS: When you ran -- ran the
12 scenarios, you made an assumption for import prices and also
13 an assumption, I take it, for export prices. Would that be
14 correct?

15

MS. LYN WRAY: My understanding is that,
16 broadly speaking, movements in one (1) are -- are the same as
17 movements in the other. So, in a broad sense, whatever
18 happens to export prices would also, in our runs, happen to
19 import prices.

20

For -- for example, I think we did do a -- a
21 run where we looked at -- I guess we didn't this year, but
22 we've done one (1) in previous IFF's, where we've taken a 20
23 percent change in export prices. We've followed that through
24 on the import side and vice versa.

25

MR. BOB PETERS: Am I correct though, Ms.

1 Wray, that you would have used an assumed value for import
2 prices and also an assumed value for export prices?

3 MS. LYN WRAY: Well, we get our inputs for
4 our model runs from Mr. Surminski's and Mr. Cormie's area.
5 It's just that if you're asking us to do a sensitivity in
6 which prices go up or down, when we're doing our financial
7 modeling runs, we always apply the same percentage increase
8 to whatever we've received on both imports and exports.

9 MR. BOB PETERS: Would it be possible, Ms.
10 Wray, for you to equate the import prices to the export
11 prices in the model?

12 MR. DAVID CORMIE: Mr. Peters, I think
13 they're already done that way. We make assumptions on -- on
14 natural gas prices. Natural gas prices, like Mr. Warden
15 indicated -- natural gas prices like Mr. Warden indicated are
16 the -- it's a marginal cost of generation.

17 So, if natural gas prices go up, power prices
18 go up and our export revenues will go up nine (9) years out
19 of ten (10). In the one (1) year out of ten (10) when we are
20 exposed to drought costs and we have to make power purchases,
21 there's going to be increased costs associated with those
22 power purchases.

23 And -- and so you really can't disconnect
24 import prices from export prices. They're linked through the
25 cost of -- of carbon based fuels, whether they're coal or

1 natural gas.

2 So our --our forecasting is all driven by our
3 long term economic outlook that says this is our view of --
4 of fuel prices. Fuel prices drive the export market and they
5 also drive the cost of purchase power and -- and natural gas
6 and coal at our generating stations.

7 So, you have to -- you can't give us a
8 scenario that says, do this and do this at the same time.
9 They have to be -- you can only make one (1) assumption on
10 where fuel costs are going. Those are driven by -- by -- by
11 our long term view.

12 MS. LYN WRAY: I don't know if it would be
13 helpful, Mr. Peters, but if you're trying to get a sense of
14 the order of magnitude that prices would have played in the
15 variation in 2003/4, there is an interrogatory that we
16 responded to PUB/MH-II-20. Where the question was asked,
17 you've shown us, typically speaking, what the difference
18 would be between revenues under low flow conditions and
19 revenues under median flow conditions, and you've shown us
20 that that's \$109 million.

21 But the difference that the extra provincial
22 loss in fiscal 2004 was 165 million. Why is there a
23 difference between this hundred and nine (109) and a hundred
24 and sixty-five (165)? And I believe our answer said that we
25 believed that the majority of the difference would have been

1 attributable to prices rather than flow volumes.

2 So, if you're looking for an order of
3 magnitude, that might give you some indication.

4 MR. BOB PETERS: Ms. Wray, I'll check that
5 then at the break and let you know if there's anything
6 further on -- on that. Thank you.

7 I understood you to -- to say, Mr. Surminski,
8 or Mr. Cormie that the IFF was based, after at least the
9 current year, on median flows. Have I got that right?

10 MR. HAROLD SURMINSKI: After the current
11 year, '04, -- the current year, '04/'05 and '05/'06 --

12 IFF '03 is the first year which is '03/'04, is
13 based on current conditions. '04/'05 is based on median flows
14 and '05/'06 and thereafter is based upon our weighted average
15 costs and revenues, considering all flow conditions.

16 MR. BOB PETERS: Does that assume, then, when
17 you -- when you prepare that, that 50 percent of the time
18 you'll have to purchase additional power?

19 MR. DAVID CORMIE: No, it doesn't, because
20 the '04/'05 estimate based on -- it was just based on pure
21 median flow conditions.

22 And under median flow conditions, no -- the
23 only purchases that are in the forecast are those that are
24 purchased off-peak for resale in the on-peak to capture the
25 on-peak/off-peak differential.

1 From '05 and '06 and thereafter, we estimate
2 the costs -- assuming that each of the historical flow years
3 can occur. And we -- we calculate the average cost of all
4 power purchases in those eighty-five (85) flow years and
5 that's the cost that goes into the fuel and power purchase.

6 And the average of all our export sales is
7 going into the -- into our ex-provincial revenue. I'm sorry,
8 that's eighty-six (86) years rather than eighty-five (85)
9 years.

10 MR. BOB PETERS: Ms. Wray, regardless of the
11 methodology to calculate net export revenue, you explained to
12 me, I think before lunch, that there were -- were different
13 ways that it was done for -- for different reports that you
14 prepared, correct?

15 MS. LYN WRAY: Yes, we haven't really had the
16 need until recently to calculate that number. We have
17 recently, I believe, done a calculation, which Mr. Wiens can
18 elaborate on, for the cost of service study.

19 MR. BOB PETERS: All right. So maybe then
20 I'll make a note of that to -- to speak to him on but does --
21 do you -- are you aware of -- as to what other costs were
22 netted against the gross export revenues under Mr. Wiens'
23 study?

24 MS. LYN WRAY: I think he would be best to
25 talk to that.

1 (BRIEF PAUSE)

2

3 MR. BOB PETERS: Who on the panel will speak
4 to the capital expenditures?

5 MR. VINCE WARDEN: I think we all might.

6 MS. PATTI RAMAGE: Not me.

7

8 (BRIEF PAUSE)

9

10 MR. BOB PETERS: From the materials provided
11 in the filing, it appears that in your capital expenditure,
12 03-01, there's approximately \$6.1 billion in forecast
13 expenditures in the planning cycle.

14 MR. VINCE WARDEN: Over the ten (10) year
15 planning cycle, yes.

16 MR. BOB PETERS: And that ten (10) year
17 planning cycle, Mr. Warden, is from 2004 to 2014?

18 MR. VINCE WARDEN: Yes.

19 MR. BOB PETERS: And in the capital
20 expenditure forecast that was done before the one (1) that's
21 now filed with the Board, capital expenditures were \$1.56
22 billion lower than the new numbers.

23 Is that correct?

24 MR. VINCE WARDEN: I believe that's the
25 number. I don't have it in front of me but that sounds

1 right, yes.

2 MR. BOB PETERS: All right. This increase of
3 \$1.56 billion is also approximately, I suppose, 38 percent of
4 additional expenditures on the capital side from one (1) year
5 to the next in their forecast planning cycle.

6 Do you agree with that?

7 MR. VINCE WARDEN: Yes, and we go into the
8 reasons in our capital expenditure forecast. It was filed as
9 to why that occurred, primarily due to the addition of
10 Wuskwatim into that -- into that cycle, I believe.

11 MR. BOB PETERS: Could you explain to the
12 Board why Manitoba Hydro would approve a 38 percent increase
13 in its capital expenditures forecast when it knows it's going
14 to incur losses of 355 million which may be now or which are
15 now more than \$400 million in 2004?

16 MR. VINCE WARDEN: Well, you know, we're -- I
17 indicated before, we're here for the long term. We have to
18 plan for the long term and Wuskwatim is one (1) of those
19 expenditures that begins over that planning horizon.

20 So every year we have to look at if we go out
21 ten (10) and -- years and beyond and look at our requirements
22 and it was time for -- to add the Wuskwatim generating
23 station and other capital expenditures into the -- into that
24 forecast.

25 MR. BOB PETERS: Are you telling the Board

1 that Hydro couldn't find capital projects to postpone or
2 cancel to reduce its expenditures at this time?

3 MR. VINCE WARDEN: Well, we go through an
4 exercise every year to postpone expenditures that are
5 unnecessary. That is -- well -- or -- or that may not be
6 necessary in the immediately -- upcoming year or years.

7 So capital expenditures -- the cap -- the
8 capital program is somewhat fluid and new capital items are
9 being added as the need arises and others are being deferred
10 to make way for those new items as -- as required.

11 Because of the -- the drought situation we did
12 go through an extensive review of capital to see which items
13 could be further deferred from -- from the process that we've
14 always followed, that is to only include in our capital
15 expenditure program those items that are essential. And the
16 ones that could be further deferred were -- turned out to be
17 relatively minimal.

18 MR. BOB PETERS: What dollar amount were
19 deferred?

20 MS. LYN WRAY: I think it's provided in my
21 PUG-17-B. It looks to be in the order of about \$30 million
22 in total subject to check.

23 MR. BOB PETERS: And that was over the
24 planning horizon, was it not?

25 MS. LYN WRAY: These were 2003/04 reductions.

1 MR. BOB PETERS: Mr. Warden, can you indicate
2 if the approval by Manitoba Hydro on these capital
3 expenditures is on a stand-alone basis for each project?

4 MR. VINCE WARDEN: Yes, it is. It's on a
5 complex ba -- what we refer to as a complex, so a number of
6 projects -- a complex could be comprised of a number of
7 projects.

8 MS. LYN WRAY: That number is 28.5 million.

9 MR. BOB PETERS: Who at Manitoba Hydro makes
10 the final decisions, Mr. Warden, on the capital projects?

11 MR. VINCE WARDEN: Well, the capital
12 expenditure forecast is taken to our Board at least once a
13 year for revision. And the Board has the ultimate authority
14 as to what the capital program will be. During the year
15 however, there are projects that are -- are recognized that
16 will be added to the capital expenditure forecast at the next
17 revision.

18 So it's the -- the executive committee reviews
19 on a -- on a weekly basis pretty much, capital -- new capital
20 items or revisions to existing capital items. And modifies
21 the capital expenditure forecast on an ongoing basis which is
22 always subject to final approval by the Board when it goes to
23 the Board in the -- in the fall of each year.

24 MR. BOB PETERS: In terms of the impacts of
25 these capital expenditures, I have a document at Tab 18 which

1 is PUB-MH-I-IR-50, Ms. Wray, maybe you can just briefly
2 explain to the Board what you are demonstrating by answering
3 this question, relative to the increase in capital
4 expenditures from -- from 2003 to 2004?

5 MS. LYN WRAY: I believe what we did was run
6 the forecast as if it had previous forecasts capital
7 expenditures in it which would have omitted the approximate
8 \$1.6 billion new items that appeared in IFF-03.

9 And as a consequence of that there were
10 changes primarily to interest expense and depreciation.
11 Although in a few cases we were able to estimate some revenue
12 impacts as well.

13 MR. BOB PETERS: What you're showing the
14 Board though, is that there's a -- a negative on the net
15 income of the Corporation as a result of the additional
16 capital expenditures from your 2003 to the -- from the 2002
17 forecast to the 2003 forecast?

18 MS. LYN WRAY: What it shows is the -- the
19 amount that would be charged to depreciation, interest net of
20 revenues thereby affecting that income.

21 MR. BOB PETERS: In addition to that, Ms.
22 Wray, it would -- it would also erode the debt/equity ration?

23 MS. LYN WRAY: I'm not sure that's the case
24 because to the degree that we're adding assets there's --
25 there's an inter-relationship between adding to debt, so I

1 would have to check that. But I would -- I would think that
2 that's the case given the current outlook.

3 MR. BOB PETERS: Would you also think that
4 would strain the interest coverage ratio?

5 MS. LYN WRAY: Well, you're increasing the
6 denominator of the interest coverage ratio, which by the way,
7 I -- I misspoke yesterday, it should have been net income --
8 the numerator should be net income plus interest payments
9 over interest payments.

10 So to the degree that interest payments and
11 their denominator is higher, you would have -- that would
12 have an impact on the interest coverage ratio, yes.

13 MR. BOB PETERS: And it would also -- this
14 increase in capital would also reduce the capital coverage
15 ratio?

16 MS. LYN WRAY: Yes. Again, though, I would
17 make the caveat that we haven't in all cases identified
18 revenue impacts for some of this capital. And we do know
19 that, for example, investment in Wuskwatim and other projects
20 that would generate export revenues will eventually more than
21 repay any increase in debt/equity ratio.

22 MR. BOB PETERS: Does that answer indicate,
23 Ms. Wray, that you haven't put any Wuskwatim revenues in the
24 IFF?

25 MS. LYN WRAY: I would have to double check

1 and see if we -- I -- I would think we probably have got some
2 Wuskwatim revenues in the IFF, it's just that they're very
3 much at the front end.

4 If it comes into service in 2010, you're only
5 going to get a couple of years of revenues flowing in, but
6 our more extended analysis that we presented at the CEC
7 hearings showed that after, I think it's something in the
8 order of six (6) years, the debt ratio starts to improve
9 quite markedly.

10

11

(BRIEF PAUSE)

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14

MR. BOB PETERS: Sticking with capital
expenditures, there is -- by the way, what is the planned now
in-service date in the forecast for Gull? Is -- have you got
that at hand?

15

16

17

MS. LYN WRAY: I believe it's 2012/13.

18

19

(BRIEF PAUSE)

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21

MS. LYN WRAY: I -- I'm sorry, in the IFF-03
the -- there's no assumption that Gull would be advanced and
accordingly, it would be in the forecast 2022/23 for domestic
purposes only.

22

23

24

25

MR. BOB PETERS: In the capital expenditure,

1 there appears to be some expenditures planned for wind
2 generation. Is that correct?

3 MR. HAROLD SURMINSKI: Yes, that's correct.

4 MR. BOB PETERS: And is the -- is the -- the
5 load forecast showing two hundred and fifty (250) megawatts
6 of planned wind added capacity?

7 MR. HAROLD SURMINSKI: Our resource plan
8 indicates two hundred and fifty (250) megawatts by 2010.

9 MR. BOB PETERS: And is that -- and the
10 capital expenditure forecast is based on two hundred and
11 fifty (250) megawatts by 2010, Mr. Surminski?

12 MR. HAROLD SURMINSKI: Yes, but the capital
13 costs are not for the entire two hundred and fifty (250)
14 megawatts. Part of the two hundred and fifty (250) megawatt
15 target is -- is going to be -- provided by purchased from
16 non-utility generation, from -- from private generation.

17 MR. BOB PETERS: That's approximately a
18 hundred (100) megawatts from non-utility generation?

19 MR. HAROLD SURMINSKI: That's correct. We had
20 a hundred (100) megawatts in that plan. A further fifty (50)
21 megawatts was -- was to be a joint venture.

22 MR. BOB PETERS: All right.

23 MR. HAROLD SURMINSKI: And -- and the
24 remaining hundred (100) megawatts could have been Manitoba
25 Hydro development or -- or purchase.

1 MR. BOB PETERS: But that joint venture is now
2 off the table?

3 MR. HAROLD SURMINSKI: That's correct.

4 MR. BOB PETERS: And what about the hundred
5 (100) megawatts of Manitoba Hydro development, has that been
6 postponed?

7 MR. HAROLD SURMINSKI: That's -- that will
8 take place only if it proves to be economical to do. We --
9 we will -- we expect costs of wind generation to -- to keep
10 decreasing and based on -- on such predictions, it -- it may
11 become economical. And so Manitoba Hydro will only develop
12 on its own if -- if the costs are -- are proven to be
13 economic.

14 MR. BOB PETERS: By what year will that be
15 known as to whether or not they're economic?

16

17 (BRIEF PAUSE)

18

19 MR. DAVID CORMIE: Mr. Peters, while we're
20 waiting for that, I have the response to two (2) undertakings
21 that might be appropriate now.

22 With regard to our filing of our export
23 contracts with the National Energy Board, we do that, but we
24 do that with our all -- all price information blacked out.
25 So, the contracts may be available in the public realm but

1 the price information is not.

2 The second question that you asked us to look
3 into, you had on Tab Number 1 indicated -- it wasn't Tab 1,
4 it was -- it was on the IFF on Tab Number 2 where you had --
5 we have shown fuel and power purchases of \$480 million. And
6 the question was, what portion of that was associated with
7 our exports -- firming up of our export activities.

8 I can report that of the 480 million, 5
9 million of that is due to diesel costs, so there's \$475
10 million associated with fuel and power purchases for serving
11 domestic and ex-provincial load.

12 15 million of that 475 million is associated
13 with serving the domestic load and the balance of the 475
14 million which would be 460 million is the forecast cost of --
15 of serving the export market.

16 So, the -- the great proportion of that \$480
17 million is the cost of firming up -- of supplying the export
18 market. This was based upon a forecast of hydraulic
19 generation of twenty thousand, eight hundred (28,000)
20 gigawatt hours.

21 Hydraulic generation actually came in at
22 around eighteen thousand, five hundred (18,500) gigawatt
23 hours, so there was significantly less hydraulic generation
24 in the year. And as a result, the cost of replacement power
25 would be much more -- to serve the Manitoba load would be

1 much more than the \$15 million, but we haven't done that
2 calculation.

3 Just to indicate that -- that -- this was the
4 ratio at the time the IFF was prepared last August, actual
5 results were far worse than that indicated because we did
6 purchase more fuel and power.

7 The incremental was, according to this
8 calculation method, would be chargeable to the domestic load.
9 Does that answer your question?

10 MR. BOB PETERS: I believe it does, thank you
11 very much, Mr. Cormie.

12 MR. VINCE WARDEN: Just -- just before Mr.
13 Anderson gets too excited, I'd like to double check the --
14 the number -- the diesel fuel number is too high. That -- it
15 isn't \$5 million. I'm not sure where -- what the source of
16 that was, but the total cost of operating the diesel
17 communities is around \$5 million, which is -- of which diesel
18 fuel's a part, but it's not the total amount.

19 MR. BOB PETERS: All right, well subject to
20 check then, we will --

21 MR. DAVID CORMIE: Yeah, all I can say is
22 that of the four hundred and eighty (480) -- four hundred and
23 seventy-five (475) came from my budget. Someone else is
24 responsible for the other five (5). So, I'll leave that to
25 Mr. Warden to wrestle with.

1 MR. BOB PETERS: All right, thank you for
2 that. Bob could we take five (5) minutes?

3 THE CHAIRPERSON: Yes. We'll take the
4 afternoon break at this time, thank you.

5

6 --- Upon recessing at 3:10 p.m.

7 --- Upon resuming at 3:25 p.m.

8

9 THE CHAIRPERSON: Should we -- we don't have a
10 lot of time to go, so I think we'll start. By the way, I
11 received some representations, that we shorten our lunch
12 hour, if everyone's agreeable, tomorrow we'll come back at
13 1:30, if that's okay.

14 Okay, Mr. Peters...?

15 MR. BOB PETERS: Yes. Ms. Ramage has wanted
16 us to mark some undertakings and some revised answers to an
17 Information Request as the next two (2) exhibits.

18 And I believe we are on Exhibit number MH-16,
19 Mr. Chairman, and I would suggest that Manitoba Hydro's
20 Undertaking number 5 be marked as Manitoba Hydro Exhibit 16.
21 And then I would also suggest that the revised response to
22 PUB-MH-II-55, be given the exhibit number of Manitoba Hydro
23 Number 17, subject to the concurrence from My Friend
24 opposite.

25 THE CHAIRPERSON: Noting is set, we're fine.

1 --- EXHIBIT NO. MH-16: Answer to Undertaking Number 5.

2

3 --- EXHIBIT NO. MH-17: Response to PUB-MH-11-55.

4

5 CONTINUED BY MR. BOB PETERS:

6 MR. BOB PETERS: Mr. Surminski, before the
7 break, you and I were talking wind power, and I believe you
8 were going to just check on a couple of matters. Have you
9 done that?

10 MR. HAROLD SURMINSKI: Yes, I have checked on
11 some information, I'll see what I can do on it.

12 MR. BOB PETERS: Please go ahead.

13 MR. HAROLD SURMINSKI: The -- first of all,
14 the two hundred and fifty (250) megawatts that we have in our
15 resource plan, consist of a hundred (100) in 2005, followed
16 by fifty (50) megawatts in each of the next three (3) years.
17 In '06/'07, another fifty (50), '07/'08 fifty (50) and
18 '08/'09 a third fifty (50) megawatts.

19 And -- and for the breakdown it was somewhat
20 confusing with the joint venture we have. I'll start with
21 two hundred and fifty (250) megawatts total target and total
22 that we have in our resource plan.

23 A hundred (100) megawatts is the Bison Wind --
24 the NUG purchase that we have. That leaves a hundred and
25 fifty (150) megawatts that we should allocate.

1 A hundred (100) megawatts of that hundred and
2 fifty (150) was intended to be the joint venture with Shell
3 that we had planned.

4 So, Manitoba Hydro had fifty (50) megawatts of
5 that hundred (100). So, Manitoba Hydro was responsible for
6 the capital costs of only fifty (50) megawatts and that is
7 the fifty (50) megawatts that's in -- in our capital
8 expenditure forecast. It's half of the Shell joint venture
9 cost of a hundred (100).

10 That leaves the remaining fifty (50) megawatts
11 and that was intended to be Shell on their own or -- or any
12 other developer on their own.

13 So that -- since Shell is out of the picture
14 entirely now, the hundred and fifty (150) megawatts now, is
15 -- is open to -- to either Manitoba Hydro development or --
16 or other private developers.

17 MR. ROBERT MAYER: Mr. Surminski, technically
18 speaking, I understand, that would be hundred and fifty-one
19 (151) megawatts because the tax implications for the NUG
20 require that they can go to a maximum of ninety-nine (99)
21 megawatts.

22 MR. HAROLD SURMINSKI: That's correct.
23 Technically it's -- it's ninety-nine (99) in our -- in our
24 applications and our licenses, et cetera.
25

1 CONTINUED BY MR. BOB PETERS:

2 MR. BOB PETERS: And I understood from the
3 previous answers that Manitoba Hydro is -- has not committed
4 to expending and -- and -- expending the full amount on the
5 capital to proceed on that wind generation at this point
6 because you have not yet determined if it's economic.

7 MR. HAROLD SURMINSKI: That's correct. We
8 have not -- we do not have firm plans to do this. The
9 capital expenditure again has funds as -- as a placeholder
10 for -- for -- it's -- it's expected. We do expect the -- the
11 wind costs to -- to continue decreasing and making wind
12 economic.

13 In fact, our analysis of a two hundred and
14 fifty (250) megawatt block of wind -- this is a separate two
15 hundred and fifty (250) megawatt block, indicates for 2009,
16 with the assumptions of 2.5 percent per year reductions in
17 capital costs, so that's a cumulative 16 percent reduction by
18 2009, that the -- the economics are marginal at -- with an
19 internal rate of return of about 9 percent.

20 MR. BOB PETERS: I take it you're not
21 prepared as a Corporation to change the capital expenditure
22 forecast, but you've decided to leave those items in there,
23 and I think your word was, as another placeholder. Is that
24 right?

25 MR. HAROLD SURMINSKI: That's correct.

1 MR. BOB PETERS: On the Kanawapa Project, is
2 there an update you can provide to the Board, Mr. Warden, in
3 terms of your discussions and studies with Ontario and the
4 prospect of Kanawapa?

5 MR. VINCE WARDEN: Not really. No.
6 Discussions are ongoing but there's nothing firm that can be
7 reported at this time.

8 MR. BOB PETERS: In term -- was there a
9 time-line set on those discussions with Ontario to either
10 make a go/no go decision on the Kanawapa Project?

11 MR. VINCE WARDEN: Well, there's been some
12 time-frame set out that I think are somewhat flexible.

13 MR. BOB PETERS: Is there a time-line you
14 could tell this Board by which time Manitoba Hydro will be in
15 a position to advise as to whether it will proceed on that
16 project, or not?

17 MR. VINCE WARDEN: I would think the most
18 recent time-line that I am -- am aware of was the end of this
19 calendar year.

20 MR. BOB PETERS: And can you indicate to the
21 Board whether Bi-Pole 3, or is that also known as the Hindi-
22 Reil (phonetic) line?

23 MR. VINCE WARDEN: Yes.

24 MR. BOB PETERS: Is that -- is that Bi-Pole
25 3, a certainty at this point?

1 MR. VINCE WARDEN: No.

2 MR. BOB PETERS: Is there -- is it a
3 certainty as to location if it gets built?

4 MR. VINCE WARDEN: Well, it's a certainty as
5 to requirement. And Manitoba Hydro certainly wants to
6 proceed with -- with the building of that line. It's a
7 question as to routing.

8 MR. BOB PETERS: Is it only a question of
9 routing or is it a question of whether or not Conawapa and --
10 and Gull proceed?

11 MR. VINCE WARDEN: Yeah, it's not dependant on
12 the other stations, it's strictly a question of -- of
13 routing.

14 MR. ROBERT MAYER: Mr. Warden, but it is
15 correct that you can't -- or that it would be no sense to
16 build either Gull or Kanawapa without Bi-Pole 3. I
17 understand although Bi-Pole 3 isn't dependent upon the
18 building of the other stations, the other stations are
19 dependent upon the building of Bi-Pole 3?

20 MR. VINCE WARDEN: Absolutely, yes.

21

22 CONTINUED BY MR. BOB PETERS:

23 MR. BOB PETERS: In the capital expenditures
24 forecast, Mr. Warden, why does Manitoba Hydro not limit its
25 capital expenditures to -- to say depreciations for non-major

1 new construction and transmission?

2 MR. VINCE WARDEN: Would you mind repeating
3 that question?

4 MR. BOB PETERS: Let me rephrase it.
5 Presently from the answers you've given me, the only -- the
6 only restriction on the capital budget is the yes or no
7 decision of the management of the Corporation.

8 Would that be fair?

9 MR. VINCE WARDEN: Well, no, we still go
10 through I mentioned the Board of Manitoba Hydro. I
11 mentioned, I think, in my opening remarks the Crown
12 Corporation's Counsel, the role they play in reviewing our
13 capital expenditure program, Treasury Board at the province,
14 we have to make sure we get Loan Act authority for our
15 capital program.

16 So there's a number of processes that must be
17 followed before we can spend capital dollars.

18 MR. BOB PETERS: I wasn't trying to -- to
19 minimize those other -- those other agencies or bodies that
20 have some involvement in the capital but the decision on
21 whether or not to include a project in a capital forecast or
22 not appears to rest with Manitoba Hydro and the executive,
23 more particularly, of Manitoba Hydro ultimately as approved
24 by the Board?

25 MR. VINCE WARDEN: Well, in terms of coming up

1 with the list of capital projects as we see them at any one
2 point in time, yes, and this is our -- what we -- what we
3 filed in our capital expenditure forecast CEF03, I believe,
4 it's labelled, is our best estimate of what the future holds
5 in terms of capital expenditures but recognizing that it is
6 subject to almost continual update.

7 MR. BOB PETERS: There is no objective
8 limitation on the amount that you will spend for capital
9 related to non-major new generating stations from what I can
10 tell?

11 MR. VINCE WARDEN: No, the -- the capital
12 coverage ratio does give us some guideline as to whether or
13 not the -- we're meeting our funding target for -- that is
14 for funding capital expenditures from internal funds but for
15 the most part, our capital program is driven by -- by need --
16 by need, whether it be for safety reliability, customer
17 service, load growth. Those are -- those are the main
18 drivers of our -- of our capital expenditure fore --
19 forecast.

20 MR. BOB PETERS: But the capital coverage
21 ratio is not a driver to limit the capital expenditure
22 forecast -- or the capital expenditure budget, is it, Mr.
23 Warden?

24 MR. VINCE WARDEN: Well, realistically it
25 can't be, no. It's just an indicator of the extent to which

1 those capital pro -- expenditures -- expenditures are being
2 funded with funds internally but no, it's not a limiting
3 factor.

4 MR. BOB PETERS: Why don't you use it as a
5 limiting factor?

6 MR. VINCE WARDEN: Well, as I just indicated,
7 the -- the capital program is driven by safety, reliability,
8 customer demand. So if we were going to place limits, we'd
9 have to put limits on those factors and -- and it's just not
10 something we -- we can do realistically.

11 MR. BOB PETERS: Do you acknowledge that this
12 methodology that Manitoba Hydro employs, exposes consumers to
13 risks of high rates by continuing to spend money on capital
14 in excess of the rates that the assets are being paid off or
15 depreciated?

16 MR. VINCE WARDEN: Well, no, all of our
17 capital assets are included in rate base. So, obviously if
18 we spend capital dollars, it's -- it's going to work its way
19 into the -- into the rates, and that's why we have a -- what
20 we refer to as the integrated financial forecast, because the
21 projected operating statement fully reflects the impacts of
22 those capital expenditures.

23 So, yes, we're fully aware of the impact on
24 rate -- on consumers.

25

1 (BRIEF PAUSE)

2
3 MR. BOB PETERS: When I reviewed with Ms.
4 Wray, the document, I think number 18, in the book of
5 documents from PUB-MH-I-50, I had understood there to be an
6 impact on consumers because the net income was negative as a
7 result of the capital expenditures, so that there is a short
8 term impact presently on -- on consumers. There would also
9 be a long term impact?

10 MS. LYN WRAY: Well, it's an impact on net
11 income, and therefore on retained earnings, and would be one
12 of many factors that would be considered when we seek a rate
13 increase. But we've had increases to our capital
14 expenditures over the last seven (7) years, and we haven't
15 asked for rate increases.

16 So, it's not always the case that by spending
17 capital dollars you have a rate increase.

18 MR. VINCE WARDEN: You know, an example of
19 that would be the building downtown. We do have a capital
20 amount in the capital program that would be reflected in --
21 in the numbers in -- at Tab 18.

22 And yet we haven't, I'm sure subject to Ms.
23 Wray -- Ms. Wray confirming this, it's unlikely that we
24 incorporate the savings that will result from bringing all
25 the people together in one (1) location in this analysis.

1 That analysis -- that work on that has been done, but I don't
2 believe it was incorporated in -- in this particular
3 analysis.

4

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(BRIEF PAUSE)

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MS. LYN WRAY: I don't think there's anything
other than the \$75 million dollars for the head office
9 building.

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MR. BOB PETERS: And what you're say --
MR. VINCE WARDEN: So, that basically confirms
what I just said. There -- there are -- this -- this shows
that there is a negative impact on net -- net income, but we
haven't picked up the positive impacts of expenditures, such
as the -- such as the example that we just gave.

MR. BOB PETERS: And it doesn't also though,
Mr. Warden, incur -- include the other costs that will be
necessary to -- to complete the project and bring all these
people together?

MR. VINCE WARDEN: Well, I -- I think, you
know, we did indicate earlier that the \$75 million dollar
number is something of a place holder and we'll be updating
that this -- this fall.

MR. ROBERT MAYER: Mr. Warden, the portion of
those capital expenditures, and I think I've asked about this

1 before, are supply side enhanced?

2 MR. VINCE WARDEN: For the most part, yes.

3 MR. ROBERT MAYER: And again, from something I
4 heard in the other place, those supply side enhancements are
5 just what they say, and they are expected, as I understand
6 it, to produce in some cases, significant extra revenue by
7 upgrading some of your -- your turbines, to produce more
8 power.

9 Each of them has a -- at some point in time, a
10 positive impact on the balance sheet, if I understand the
11 issue of supply side enhancement correctly?

12 MR. VINCE WARDEN: Well, you do. And that --
13 that is certainly what -- the point we're trying to make
14 here, in looking at this one (1) item in isolation, probably
15 misrepresents what the impact of those capital expenditures
16 will be.

17

18 CONTINUED BY MR. BOB PETERS:

19 MR. BOB PETERS: Thank you. Mr. Surminski,
20 let's see if we can use our time remaining today, to -- to
21 deal with power supply issues. And you are in that part of
22 the corporation that's responsible for the preparation of the
23 power resource plan, am I correct?

24 MR. HAROLD SURMINSKI: Yes, that's correct.

25 MR. BOB PETERS: And can you tell this Board

1 what's -- what is the purpose of the power resource plan?

2 MR. HAROLD SURMINSKI: Well, one (1) of the
3 primary purposes is to -- is to indicate and to provide funds
4 for -- for studies of future generation options we protect.
5 And by protect we -- we mean we study future generation
6 options in enough detail so that we have reasonable cost
7 estimates, reasonable estimates of the capability, of the
8 generation capability of a facilities.

9 So, we -- we look at the -- at the load
10 forecast in the future, look at our supply side resources
11 that we have, our demand side, our DSM.

12 By looking at the combination and then looking
13 at the net result of -- of when load keeps growing to the
14 point of meeting or of using up all our surplus generation,
15 that determines the in-service date of new generations.

16 So, one of the purposes is to determine the
17 in-service date, the estimated in-service date of next
18 generation of resources, purely for Manitoba Hydro
19 requirements or domestic requirements.

20 And this would not be advancement of
21 generation for export sales but just what would be required
22 in the more of a business as usual approach, in the way we
23 used to develop our system, just to install plants whenever
24 we needed for -- for domestic requirements.

25 MR. BOB PETERS: On a shorter term basis, Mr.

1 Surminski, you also look at a power resource plan and prepare
2 that, to figure out how you're going to meet the load in the
3 current year or in the following year; is that correct?

4 MR. HAROLD SURMINSKI: Could you repeat the
5 question, Mr. Peters?

6 MR. BOB PETERS: Well, is another -- is
7 another purpose of your power resource plan to determine how
8 you're going to meet the load in -- in the next year, as
9 opposed to going down to when a new generation would be
10 needed?

11 MR. HAROLD SURMINSKI: Generally the next year
12 is -- is not of -- of concern, because we have been in an
13 oversupply situation. So, the immediate term is -- is not
14 usually a concern in -- in a power resource plan.

15 MR. BOB PETERS: And when you bring on new
16 generation, you may -- you bring it on in very large blocks,
17 which allows you to use the surplus for other purposes, such
18 as those that Mr. Cormie has told us about?

19 MR. HAROLD SURMINSKI: Yes, for export sales.

20 MR. BOB PETERS: When you plan the resource
21 plan for the domestic market, do you start with dependable
22 flow conditions as the base for your hydraulic component?

23 MR. HAROLD SURMINSKI: Yes, in order to ensure
24 security of supply, we -- we count on dependable, which is
25 our lowest flow on record. It is something that we can

1 guarantee to be available.

2 MR. BOB PETERS: And your lowest flow on
3 record was out of that 19 -- is it 1940/41 year?

4 MR. HAROLD SURMINSKI: Yes, that's correct.

5 MR. BOB PETERS: And it looks like I didn't
6 put the right chart necessarily in the book, under Tab 8, but
7 under the same Interrogatory, MIPUG-MH-I-17, you use a number
8 under your hydraulic generation to meet the load of
9 twenty-one thousand one hundred and say seventy (21,170)
10 gigawatt hours. Is that -- is that the number that you're
11 using for the dependable energy flow?

12 MR. HAROLD SURMINSKI: Yes, that's correct,
13 that is the number for the year 2005/6. It does decrease
14 slightly over time.

15 MR. BOB PETERS: Why does it decrease?

16 MR. HAROLD SURMINSKI: What -- what I spoke
17 about earlier was the -- in response to your question about
18 the Saskatchewan River, so really it's reflecting a deplete
19 -- the depletion of river flows on the Saskatchewan River,
20 over time.

21 MR. BOB PETERS: When you look at dependable
22 energy, does that assume that your reservoirs are full?

23 MR. HAROLD SURMINSKI: Dependable energy
24 assumes full reservoirs at the -- at the onset of a drought
25 cycle, so it's not full at the beginning of the year,

1 '40/'41, it's full at the beginning of that drought cycle
2 period, which occurs in '39 or -- or even before.

3 We -- we run a continuous sequence --
4 chronological sequence of the flows, in order to determine
5 dependable energy.

6 MR. BOB PETERS: When we talk of your
7 reservoirs, which ones are you relying on mainly?

8 MR. HAROLD SURMINSKI: Reservoirs under
9 Manitoba Hydro control are -- are Lake Winnipeg the largest,
10 Grand Rapids second and Southern Indian Lake are -- are three
11 (3) reservoirs directly under our control.

12 MR. BOB PETERS: It sounds like there might
13 be others as well?

14 MR. HAROLD SURMINSKI: We -- Stevens Lake
15 does not contribute anything in terms of long term storage.
16 Stevens Lake is -- is there for weekly. So, it's -- it's not
17 significant at all in terms of long term storage.

18 MR. BOB PETERS: What about Lake of the
19 Woods, Mr. Surminski?

20 MR. HAROLD SURMINSKI: Lake of the Woods is
21 -- is somewhat considered but it's not under the control of
22 Manitoba Hydro. It's under the control of the Lake of the
23 Woods Control Board which -- on which Manitoba Hydro has
24 representation. But we do not -- we do not count on -- on
25 control of that at all. We -- we accept whatever we're given

1 of the control by that Board.

2 MR. BOB PETERS: You also have in your method
3 to meet the load, plans to import power. Is that correct?

4 MR. HAROLD SURMINSKI: Yes, we do have -- we
5 do count on -- on firm imports of power in the long term.

6 MR. BOB PETERS: And you build into your --
7 your resource plan at least 10 percent or -- no, I'm sorry,
8 no more than 10 percent being met by import. Is that
9 correct?

10 MR. HAROLD SURMINSKI: Yes. We -- we had
11 established a criteria many years ago that -- that we would
12 limit ti the quantity of import energy that we would count on
13 and the 10 percent was the -- was the limit.

14 MR. BOB PETERS: Why do you import energy to
15 meet your resource plan?

16 MR. HAROLD SURMINSKI: Because it's an
17 economic thing to do as long as -- as we can be guaranteed
18 that we have that supply. It's a -- it compliments our --
19 our hydraulic system when -- because most of the time we do
20 not need that quantity.

21 We -- we do have surplus flows above
22 dependable in most years so a thermal guarantee of -- from
23 the a thermal system which -- which -- where imports come
24 from.

25 We always assu -- we -- it is assumed and it's

1 known that most thermal systems do have excess energy. They
2 have capacity there for -- for their peak requirements and --
3 and they have their fuel there is coal or -- or gas is -- is
4 there for pretty well 100 percent of the time. So, we can
5 always count on -- on thermal energy imports from
6 neighbouring systems.

7 MR. BOB PETERS: Are you telling the Board
8 that these thermal imports are cheaper than your own cost of
9 generation?

10 MR. HAROLD SURMINSKI: They are -- are not
11 cheaper on a unit price basis but because we count on them
12 very infrequently, like we talked about earlier. We do not
13 -- do not have firm contracts and we do not have to pay any
14 -- any cost, any demand charges and any to reserve these --
15 these imports.

16 We only count on -- on their availability when
17 we need them and once in ten (10) years or -- or less
18 frequently when -- when we actually need the quantities. The
19 economics definitely make it attractive.

20 MR. BOB PETERS: These import arrangements
21 you tell us are -- are not under contract as I understood
22 your last answer. Is that correct?

23 MR. HAROLD SURMINSKI: We have energy
24 guarantees, what we call energy guarantees with our counter
25 parties to export sales. So, for example, the expired NSB

1 500 sale, we had fifteen hundred (1500) gigawatt hours of
2 energy guarantees where, in adverse flow conditions in the
3 Manitoba Hydro system, we -- we would designate our system in
4 adverse flow and -- and we had the right to call on fifteen
5 hundred (1500) megawatts -- fifteen hundred (1550) gigawatt
6 hours of energy.

7 Similarly with diversity contracts, we had
8 similar energy guarantees where -- where we could request the
9 counter party to provide -- to provide this import energy.

10 So in a way they are -- they are contractual
11 commitments but they're only if available in -- in their
12 system.

13 MR. BOB PETERS: Is the price under contract
14 or is it a market price?

15 MR. HAROLD SURMINSKI: It is market price.

16 MR. BOB PETERS: So you wouldn't know in
17 advance necessarily whether it's going to be cheaper to
18 import or to generate your own when you're doing your power
19 resource plan?

20 MR. HAROLD SURMINSKI: Well, as I indicated
21 earlier, it's -- the frequency -- the relatively infrequent
22 quantity end and the times that we have to do -- we have to
23 undertake imports makes the whole transaction economic.

24 So it's not economic when you actually have to
25 do it one (1) in ten (10) years but -- but the other ten (10)

1 years, you more than make up for -- for those costs.

2 MR. DAVID CORMIE: Mr. Peters, I think the
3 alternative to having interconnections would be to build more
4 natural gas or coal fire generating stations in Manitoba.
5 And if we -- and if we were to do that, we would have to
6 incur the carrying costs of those facilities.

7 And -- and that's what's saved by relying on
8 the surplus energy production capability of a neighbouring
9 utility. They -- they're -- they have surplus production
10 capability and they ma -- they make that available to us at
11 no additional charge.

12 Now, the issue of what the price for the
13 energy will be when you take delivery is no different whether
14 you're purchasing the power or you're generating it yourself.
15 You're exposed to the market price of natural gas or coal at
16 the time you make the purchase.

17 So what you do is you save the carrying costs
18 and the capital investment by relying on -- on a neighbour
19 and -- but -- but you're still exposed to the actual fuel
20 cost at the time that -- that the drought occurs, whether
21 it's a fuel cost incurred through a power purchase or the
22 fuel cost incurred through fuelling our own stations.

23 And -- and in our experience in negotiating
24 these energy guarantees as part of an export sale, we've --
25 we believe that we, in effect, get a free call on energy.

1 And it's -- although at market price, the -- the option is at
2 market price to build a facility in Manitoba.

3 So the risk is the same as if -- the price
4 risk is the same as if we were having our own asset in place
5 here in the province.

6 MR. BOB PETERS: Why do you then prescribe a
7 10 percent limit on your power resource plan to -- for
8 imported power?

9 MR. DAVID CORMIE: We are -- these -- these
10 energy guarantees, as Mr. Surminski said, are -- are -- are -
11 - the supplying utility makes the energy available to them
12 that is surplus up to a quantity that's capped.

13 Now, if they need that energy for their own --
14 their own use, it -- it won't be available to -- so there's
15 no certainty that there is a supply there.

16 The supply is only there up to the amount that
17 is in the contract. In order to limit our exposure to this
18 type of risk, we've decided to cap that at that -- at that --
19 at that 10 percent as -- as a prudent way of managing the
20 supply risk associated with not owning the asset.

21 MR. BOB PETERS: Mr. Surminski, you had told
22 the Board in your direct comments through your Counsel that
23 Manitoba Hydro is exposed to a shortage premium.

24 Is that correct?

25 MR. HAROLD SURMINSKI: In -- whenever Manitoba

1 Hydro is in a position of requiring large quantities of
2 import energy, yes, the shortage premium -- it's a
3 price/volume type of relationship. When you have a low
4 volumes of imports, prices -- you can import in off-peak
5 periods and -- and generally prices are low.

6 It's whenever you're getting into large
7 volumes that there is -- is a risk that the shortage premium
8 kicks in. Your counter parties know that you're in a short
9 position and they'll just up their prices during that time.

10 MR. BOB PETERS: Does that happen more often
11 than this one (1) in ten (10) year drought period?

12 MR. HAROLD SURMINSKI: It's directly related
13 to -- to Manitoba Hydro's drought. Manitoba Hydro influences
14 the market during -- whenever it needs large quantities,
15 suddenly the -- the price of this energy increases
16 significantly.

17 MR. BOB PETERS: Well, in 2004, for example,
18 Manitoba Hydro had to pay one (1) of these shortage premiums
19 on -- on many of its export arrangements. Would that be
20 correct? On many of its import arrangements, I mean.

21 MR. DAVID CORMIE: The shortage pricing
22 occurs in -- on stock market transactions, Mr. Peters, so
23 that normally what you would see is that power prices in the
24 northern United States are relatively uniform. If you were
25 pricing power in Chicago or in Minneapolis there's very

1 little difference that you would see across -- across the
2 northern US.

3 But when Manitoba Hydro is a large purchaser,
4 there are transmission limitations that limit the extent to
5 which Manitoba Hydro can reach out into the market and bring
6 power to Winnipeg.

7 And so it's only those utilities who are
8 closest to Manitoba Hydro in Minnesota and in North Dakota
9 that actually can be effective suppliers because they're --
10 there's -- there's not enough transmission for us to bring
11 power in from -- from -- you know, deep into the United
12 States.

13 So then we are now -- they are now only a very
14 few sellers who can serve Manitoba Hydro's needs and -- and
15 Manitoba Hydro is in -- not in a very good position to
16 negotiate prices. We are -- we've become a price taker and
17 in that -- that we lose the ability to negotiate.

18 We can't go to Chicago, we can't go to other
19 places in the United States and buy our power. We can only
20 buy it from those utilities who have surplus power available.

21 And that -- that loss of leverage or that --
22 that leverage that they have, gives them the ability to
23 charge a -- a premium.

24 Last winter the power prices in northern MAPP,
25 on average were ten dollars (\$10) a megawatt hour higher than

1 -- than the prices for an equivalent supply of power if we
2 had bought it in Chicago.

3 Normally that basis spread would be zero.

4 MR. BOB PETERS: What was the total cost to
5 Manitoba Hydro, then, in 2004 on account of this shortage
6 premium?

7

8 (BRIEF PAUSE)

9

10 MR. DAVID CORMIE: I -- I -- I can only
11 estimate that number using the -- the ten dollar (\$10) spread
12 and it would -- it would -- it could be as high as sixty (60)
13 or \$70 million. I'd have -- I'd have to do some calculations
14 in order to determine what that would be.

15 The -- Manitoba Hydro is not -- the
16 transmission system in the United States is not overloaded
17 during the off- peak hours, so we can reach out farther into
18 the market in the off-peak hours, so there's less risk in the
19 off-peak as in the on-peak.

20 So of the eight thousand (8,000) gigawatt
21 hours that we purchased, assuming that half of that was in
22 the on-peak, that four thousand (4,000), and assuming that,
23 let's say half of that was -- or a third of that was bought
24 in the spot market, you know that might be fifteen hundred
25 (1,500) gigawatt hours at a ten dollar (\$10) premium.

1 Fifteen hundred (1,500) gigawatt hours that's
2 -- you know, that's -- that's \$15 million but it -- it -- it
3 could be significantly higher than that.

4 But it's -- it -- it's many millions.

5 MR. BOB PETERS: Well, if you could refrain -
6 - refine that, I'm not sure if your answer was sixty (60) to
7 70 million or only 15 million or was it a combination of the
8 two (2)?

9 MR. DAVID CORMIE: One (1) of the -- one (1)
10 of the risks that we were trying to manage through our
11 forward power purchases last summer, was the risk of going to
12 the spot market for a thousand (1,000) megawatts on a day
13 ahead basis.

14 In -- in that situation, clearly we would be
15 at a tremendous disadvantage and so -- in order to manage
16 that risk, it was necessary for us to lock into fixed price
17 contracts.

18 The ten dollar (\$10) spread that I -- I
19 indicated was -- was just on the spot market activity.

20 If -- if we hadn't hedged and made these
21 forward power purchases, I -- I would estimate that -- that
22 the price premium or the shortage price premium would have
23 been significantly higher than that.

24 So I'm not sure on what assumptions you want
25 us to make the estimate of -- of -- of -- of the quantity.

1 It -- it -- with no -- with our complete forward power
2 purchase requirements hedged under long-term contracts, there
3 would be no shortage pricing because we wouldn't be in the
4 spot market.

5 If the forward purchases were not hedged at
6 all, and we went to the spot market, it might be -- instead
7 of being ten (10) dollars, it might be fifty (50) dollars.
8 We don't know. We didn't want to go there. We didn't want
9 to expose ourselves to that risk. So, it would just be
10 speculative on my part. It's -- it's a -- when you -- when
11 you need to by 8 million megawatt hours, it's prudent to
12 hedge them, not to expose yourself to that risk. And that's
13 what we did.

14 MR. BOB PETERS: All right, understood. Just
15 maybe the last question in line before we adjourn for the
16 day. In -- in looking at the PUB Manitoba Hydro Second Round
17 Question Fifty-Nine (59) as found at Tab 13 of my book of
18 documents. And I appreciate you giving me a -- a revised
19 sheet.

20 But the import prices from September '03 to
21 February '04, Mr. Cormie, you appear to come in around four
22 (4) cents a kilowatt hour that was paid by Manitoba Hydro;
23 and that appears to be significantly lower than the spot
24 market off-peak prices which I understand were more in the
25 range of six (6) to twelve (12) cents a kilowatt hour. Is

1 that generally correct? Do you recall?

2 MR. DAVID CORMIE: Are you referencing an
3 Exhibit, Mr. Peters, that I could look at?

4 MR. BOB PETERS: The -- I was looking at --
5 at the revised Exhibit that you gave me this morning. I
6 think it was Manitoba Hydro Exhibit Number 15.

7 MR. DAVID CORMIE: Yes.

8 MR. BOB PETERS: I was just looking at that
9 from September '03 to February '04 and thought that the
10 import prices were more in the range of four (4) cents a
11 kilowatt hour, which seemed to be significantly lower than
12 what the spot market prices were from what I understood.
13 Which were maybe as high as six (6) to twelve (12) cents a
14 kilowatt hour.

15 MR. DAVID CORMIE: Well, what you're looking
16 at here is the average price for on and off-peak power
17 purchases. So you'll -- in -- in -- the off-peak prices
18 would have ranged in -- in -- about half the energy would
19 have been bought at off-peak prices in the twenty (20) dollar
20 range.

21 And so you can imagine that the other half
22 would have to be in the sixty (60) dollar range in order to
23 average out to somewhere around the forty (40) dollars that
24 you're seeing here.

25 In addition to that, there is the demand

1 component that hasn't been shown in here. The demand
2 component probably will add -- could be another fifteen (15)
3 dollars. Ten (10) to fifteen (15) dollars per megawatt hour
4 that's -- that's not shown and that would be -- that's the
5 premium that we pay to lock into an on-peak fixed price
6 supply.

7 So, it -- maybe it's -- would be a little bit
8 clearer if we end up taking that evidence when the demand
9 charge is -- is you'll see that the average has gone up and
10 then if you remember that off-peak prices we -- we didn't
11 have to -- there's no demand component on the off-peak
12 prices. But if you consider them to be in the twenty (20),
13 to twenty-five (25) dollar range, you can then apply from
14 that what the on-peak prices might be.

15 MR. BOB PETERS: Can you indicate to the
16 Board whether Manitoba Hydro did any forward purchasing in
17 fiscal '04?

18 MR. DAVID CORMIE: Fiscal '03/'04?

19 MR. BOB PETERS: Yes.

20 MR. DAVID CORMIE: Yes, we did. In the
21 Spring of -- in the Summer of -- of 2003. As we entered into
22 the drought, we -- we purchased power for winter delivery as
23 a -- as a prudent hedge against price and supply harvest.

24 MR. BOB PETERS: What was the net effect of
25 that?

1 MR. DAVID CORMIE: The net effect of that was
2 to give us a fixed price supply of assured energy to meet our
3 load obligations during the winter. To -- and to avoid
4 catastrophic price increases had we gone -- had we left our
5 self exposed to the spot market.

6 MR. BOB PETERS: Can you quantify what the
7 savings were to Manitoba Hydro by buying that forward
8 electricity contracts?

9 MR. DAVID CORMIE: We can't do that because
10 we don't know what prices would have gone to if we had left
11 ourselves naked to the market for a thousand (1,000)
12 megawatts of power in the real time market. We don't know
13 what that would have done to the Northern Map price.

14 MR. BOB PETERS: Just to conclude on the --
15 just a second please?

16

17 (BRIEF PAUSE)

18

19 MR. BOB PETERS: Do you not weigh your actual
20 purchases under the advanced contracts to what the spot
21 market would have been, had you bought at the time you needed
22 the energy?

23 MR. DAVID CORMIE: And that's the issue is
24 that we don't know what the spot market price would have been
25 driven to, had we not -- had we left ourselves fully exposed

1 to the spot price.

2 MR. BOB PETERS: And why wouldn't you just use
3 the actual spot market that was available at the time?

4 MR. DAVID CORMIE: What -- the question is,
5 what's that price, is it a hundred dollars (\$100) a megawatt
6 hour, or five hundred dollars (\$500) a megawatt hour?

7 MR. BOB PETERS: Is there not a published spot
8 market price out of say, Chicago, that would give you an
9 opportunity to --

10 MR. DAVID CORMIE: But the Chicago market
11 doesn't relate to northern map prices, because there's
12 inadequate transmission to bring power from Chicago to
13 Manitoba.

14 MR. BOB PETERS: All right. Just on that --
15 on the surcharge questions that we were talking about. You
16 suggested that in times of Manitoba Hydro being in drought,
17 your suppliers know that you're in need, and then they add on
18 this shortage premium. Do you agree with that?

19 MR. DAVID CORMIE: The sellers of power charge
20 what the market will bear.

21 MR. BOB PETERS: And when -- when they know
22 that you're needing it, they know that you're prepared to pay
23 more for it, because you need it?

24 MR. DAVID CORMIE: That sounds fair.

25 MR. BOB PETERS: And -- and is it also fair

1 that Manitoba Hydro would then include a premium of their
2 own, or a surcharge of their own in the -- in the sales that
3 it makes back to some of these jurisdictions?

4 MR. DAVID CORMIE: Manitoba Hydro charges
5 whatever the market will bear.

6 MR. BOB PETERS: And you're telling me then
7 that that would include what -- what would be the same type
8 of premium in return, depending on what the market is on the
9 day that this happened?

10 MR. DAVID CORMIE: Absolutely.

11 MR. BOB PETERS: The --

12 MR. DAVID CORMIE: Mr. Peters, an example of
13 that is this summer. Manitoba Hydro, once it realized that
14 water conditions were improving, we went to the forward
15 markets, we sold our power at market prices for this summer,
16 in the eight hundred dollar (\$800) a megawatt hour range,
17 because the market was willing to pay that.

18 And although our costs of generation will be
19 the cost of our water rentals, that's -- that's the way the
20 power industry operates, we charge market prices. And -- and
21 that the -- the advantage that we have is nine (9) years out
22 of ten (10), we will be able to charge market prices. One
23 (1) year out of ten (10) we might have to pay market prices.

24 MR. BOB PETERS: And your fixed price
25 contracts do not embed any -- any premium, would that be

1 correct?

2 MR. DAVID CORMIE: The -- the fixed price
3 contracts are -- are generally indexed to some escalator, it
4 could be the US GDPE inflator, the CPI that reflect long term
5 real -- the long term real value of electricity. We have no
6 long term contracts that are locked in at a single price. I
7 believe that they're all indexed to -- at least to inflation.

8 Some of them are a bundled index tied to
9 inflation and to natural gas prices. So, if natural gas
10 prices skyrocket, we're able to capture some of that value
11 through the gas price indexing that's a part of the formula
12 that sets the price.

13 There are contracts where 50 percent of the
14 price is tied to the escalation of natural gas prices, and 50
15 percent of the escalation is tied to the change in the US
16 GDPE inflator, which is like the US CPI index.

17 And so as -- as energy prices move, then
18 Manitoba Hydro is able to capture some of that increased
19 value. However, some of our contracts aren't -- are not tied
20 to natural gas, we were -- we were happy with negotiating an
21 index that's just tied to inflation.

22 MR. BOB PETERS: What you're telling me is
23 that while your fixed contract or your firm contracts have
24 some formulas in them, they're not -- they're not market
25 priced at the time that you deliver the electricity?

1 MR. DAVID CORMIE: They -- they may or may not
2 be in sync with the annual variations in market price. But
3 over the long term, because they are tied to the index, they
4 reflect over the long term increasing value of -- of
5 electricity, or the changing value of electricity.

6 One of the objectives of our customers, and
7 they negotiate it, is to -- is to look for price certainty
8 and gradualism in the price

9
10 the long term, the increasing value of -- of electricity, of
11 the changing value of electricity. They don't want to be hit
12 with price changes and market prices. They have to go to
13 their regulators, as Manitoba Hydro does, and explain these -
14 - these power price changes that they and their customers
15 face.

16 So, one (1) of their objectives is looking for
17 a long term, stable, predictable price of power. And so
18 that's why they don't -- we -- we never talk to them about
19 market price, that's not something that they're interested
20 in. They -- they need something that they can -- that --
21 that either reflects the cost, the long term cost of
22 electricity, or the long term inflation rate, or something
23 that -- that gives them stability.

24 MR. BOB PETERS: Thank you. With that answer,
25 Mr. Chairman, recognizing the time, I'd be prepared to start

1 tomorrow at nine o'clock.

2 THE CHAIRPERSON: Thank you, Mr. Peters.
3 Thank you, everyone. We'll see you tomorrow at 9:00.

4

5 --- Upon adjourning at 4:13 p.m.

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10 Certified Correct,

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Wendy Warnock, Ms.

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