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MANITOBA PUBLIC UTILITIES BOARD

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

Before Board Panel:

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

HELD AT:

Public Utilities Board
400, 330 Portage Avenue
Winnipeg, Manitoba
June 2, 2011
Pages 7083 to 7229

1 APPEARANCES

2 Bob Peters) Board Counsel

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23

24

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4		of the fuel switching report	7090
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6		on the date the Board will be receiving	
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1 --- Upon commencing at 9:32 a.m.

2

3 THE CHAIRPERSON: Good morning, everyone.
4 Welcome to Mr. Chernick and Mr. Wallach. Do we have any
5 further exhibits or undertakings that have been completed
6 to be filed, Mr. Peters?

7 MR. BOB PETERS: No, I think Manitoba
8 Hydro still is working on some, and we have no further
9 undertakings this morning at this time.

10 MS. PATTI RAMAGE: We have nothing this
11 morning. I just mentioned to Mr. Williams offline we
12 might want to check the exhibit numberings of CAC. Our
13 records indicate there's two (2) Exhibit CAC-28s, and
14 they're different documents. So it might be something to
15 check on the break though just in terms of housekeeping
16 matters and re-assign that number.

17 MR. BYRON WILLIAMS: I think I understand
18 the issue, Mr. Chairman, which is one (1) that we had
19 originally considered as being identified for
20 identification was subsequently marked as an exhibit and
21 I omitted that. Now, my recommendation to the Board,
22 because I did refer a number of times to the twenty-ninth
23 document as CAC/MSOS-28, and I'm -- I'm wondering if --

24 MR. ROBERT MAYER: 28A?

25 MR. BYRON WILLIAMS: Yeah, something like

1 -- something like that. So what I would suggest is that
2 the -- the first document, which is the very short
3 document that was handed out in the cross-examination of
4 Professors Kubursi and Magee, be marked as 28A. And then
5 that will preserve the -- the one as Exhibit 28.

6 THE CHAIRPERSON: Okay. Mr. Singh and
7 Mr. Peters will check it out over the break and we'll
8 just confirm. Good morning, Mr. Gange.

9 MR. WILLIAM GANGE: Thank you, Mr. Chair.
10 There is one (1) other preliminary matter that arose
11 during the -- my cross-examination on April 15th of the
12 Hydro Panel. And at that time, the fuel switching report
13 that was subject to Directive number 17, there was an
14 indication that that would be provided to the -- or that
15 -- that the report was concluded and that it would be
16 provided to the Hydro board for -- for review and -- and
17 approval at the May meeting.

18 And that -- that the expectation was that
19 when we came back for this series of -- of hearings that
20 -- that that fuel switching report would be available. I
21 wonder if we could get a status update on that.

22 THE CHAIRPERSON: Ms. Ramage...?

23 MS. PATTI RAMAGE: We will have to take
24 an undertaking. I -- I don't have the status off the top
25 of my head.

1 THE CHAIRPERSON: Very good. They'll
2 come back in due course.

3

4 --- UNDERTAKING NO. 166: Manitoba Hydro to provide the
5 status of the fuel switching
6 report

7

8 MR. WILLIAM GANGE: Thank you, Mr. Chair.
9 Before I introduce Mr. Wallach and Mr. Chernick I -- I
10 just want to bring to the attention of the Board that
11 Randall McQuaker, executive director of Green Action
12 Centre, Carolyn Garlich, policy committee member, and
13 Colin Croll, board president of the Green Action Centre,
14 are all in attendance with us today.

15 You have met Mr. Chernick previously. I
16 will run through qualifications. My intention is to do a
17 very brief qualification for Mr. Chernick and Mr.
18 Wallach. Mr. Chernick has been qualified by the Board
19 twice previously. Mr. Chernick, this is -- or Mr.
20 Wallach, this is the first time that you've met him, but
21 I -- well, and then if -- if there's any controversy,
22 perhaps we could go further in -- into their
23 qualifications. But given that this might be a long day,
24 I would like to -- I would like to shorten the
25 proceedings as much as possible.

1 THE CHAIRPERSON: I don't think you'll
2 get any opposition on that front.

3 MR. WILLIAM GANGE: Mr. Chernick, I'll
4 start with you.

5 THE CHAIRPERSON: We should -- might as
6 well swear the witnesses.

7 MR. WILLIAM GANGE: Swear -- swear both
8 of them in, yes.

9 THE CHAIRPERSON: Mr. Singh.

10 MR. WILLIAM GANGE: Thank you, Mr. Singh.

11

12 RCM/TREE PANEL 2:

13 PAUL CHERNICK, Sworn

14 JONATHAN WALLACH, Sworn

15

16 MS. PATTI RAMAGE: Mr. Chairman, just on
17 Mr. Gange's note, if -- and I'm not sure if I heard
18 correctly, Mr. Gange, but if you want to jump straight to
19 what you're qualifying the witnesses as, we could
20 probably skip that section just to make up some time.

21 MR. WILLIAM GANGE: Thank you. And I --
22 thank you, Ms. Ramage, we'll -- we'll -- we'll do that.

23

24 EXAMINATION-IN-CHIEF BY MR. WILLIAM GANGE (QUAL):

25 MR. WILLIAM GANGE: Mr. Chernick, you've

1 been asked to provide expert testimony with respect to
2 revenue allocation, rate design and demand-side
3 management in -- in these hearings.

4 Is that correct, sir?

5 MR. PAUL CHERNICK: Yes.

6 MR. WILLIAM GANGE: And that's the expert
7 test -- that's the area of -- of expertise of -- of Mr.
8 Chernick.

9 THE CHAIRPERSON: And Mr. Wallach...?

10

11 CONTINUED BY MR. WILLIAM GANGE:

12 MR. WILLIAM GANGE: And Mr. Wallach,
13 you've been asked to provide an assessment of risk
14 management and -- and to review the material that's been
15 provided with respect to risk in this factor, that's
16 issues that you've testified on previously in other
17 hearings, sir?

18 MR. JONATHAN WALLACH: Yes, I have.

19 THE CHAIRPERSON: Okay. We'll ask for
20 comments.

21 Mr. Williams...?

22 MR. BYRON WILLIAMS: We have no
23 objections to the qualifications as framed.

24 THE CHAIRPERSON: Mr. Hacault...?

25 MR. ANTOINE HACAULT: I'm just trying to

1 get the mic going, Mr. Chair. Likewise, we have no
2 objections to the qualifications as presented.

3 THE CHAIRPERSON: Ms. Pambrun...?

4 MS. DENISE PAMBRUN: No objections, Mr.
5 Chair.

6 THE CHAIRPERSON: And Ms. Ramage...?

7 MS. PATTI RAMAGE: No, Manitoba Hydro has
8 no objections. I thought that would move that a little
9 quicker.

10 THE CHAIRPERSON: And I don't see --

11 MR. WILLIAM GANGE: Thank you.

12

13 RULING (QUAL):

14 THE CHAIRPERSON: I don't see anything
15 coming from Mr. Peters, so we're under way.

16 MR. WILLIAM GANGE: Thank you. Mr.
17 Chair, and counsel for the parties, you are aware that we
18 have, as ex -- RCM/TREE Exhibit number 6, the written
19 testimony of Mr. Chernick, and RCM/TREE number 7 is the
20 written testimony of Mr. Wallach. Mr. Chair, I do not
21 intend to review the -- the direct testimony.

22 We're going to summarize the -- the -- the
23 testimony of each of these witnesses so that -- because
24 you have it -- you have -- you know what their position
25 is and -- and I'll try to get as quickly as possible to -

1 - to the -- the parties for cross-examination.

2

3 EXAMINATION-IN-CHIEF BY MR. WILLIAM GANGE:

4 MR. WILLIAM GANGE: I'm going to start
5 with Mr. Wallach and -- and then I'll move to Mr.
6 Chernick and then I'll open the floor to the parties for
7 -- for both of the panel members.

8 Mr. Chernick -- or pardon me, Mr. Wallach,
9 the -- the purpose of your review was to provide
10 consideration of drought-related financial risk. Is that
11 correct, sir?

12 MR. JONATHAN WALLACH: That's correct.

13 MR. WILLIAM GANGE: And -- and can you
14 comment on -- on how you approached that -- that concept?

15 MR. JONATHAN WALLACH: Sure. My
16 testimony focuses on Manitoba Hydro's consideration of
17 drought-related financial risk, both in terms of the
18 Company's overall exposure to drought-related financial
19 losses and in terms of the effects of long-term
20 contracting on the Company's risk exposure. My testimony
21 also evaluates the Company's strategies for accommodating
22 or mitigating drought-related financial risk.

23 Just to be clear, by financial risk I mean
24 the risk that future financial performance will be much
25 worse than expected due to uncertainty in the key factors

1 that drive financial performance. And as this Board has
2 long recognized, the key risk factor for the Company's
3 financial performance is water flow and variability.

4 While water flow poses the greatest
5 financial risks to the Company, other risk factors, such
6 as export and import price volatility, also carry
7 significant risk. So although my focus is on drought
8 risk, my testimony also addresses the Company's
9 assessment of other significant risk factors in
10 combination with drought risk.

11 Finally, I just want to say that my
12 assessment of the Company's risk practices is based on a
13 review of relevant Company documents, as well as the
14 three (3) reports by ICF, KPMG, and the Board's
15 independent experts. I also read the so-called public
16 document by the New York consultant, but I didn't give it
17 any further consideration, since it consisted largely of
18 undocumented, unsubstantiated, and ultimately
19 unverifiable assertions.

20 MR. WILLIAM GANGE: Thank you, sir. Can
21 you please comment on the difficulty that you faced in
22 conducting a detailed evaluation of the Company's risk
23 assessments, or the risk analysis, that was provided in
24 the reports of ICF, KPMG, KM, and the NYC?

25 MR. JONATHAN WALLACH: Certainly. I -- I

1 think my frustration came through in my pre-filed
2 testimony, but, frankly, I was unable to conduct any kind
3 of detailed evaluation, since all of the public documents
4 in this case were heavily redacted, and since I was
5 denied access to any of the allegedly confidential
6 materials that had been removed from those documents.

7 I have to say, in my thirty (30) years in
8 this field, I don't believe I've ever encountered such a
9 broad standard for confidentiality or the type of blanket
10 denial of access to confidential material as was applied
11 in this case. In my experience, standard practice has
12 been to provide full access to confidential material to
13 any intervenor in a case willing to sign a
14 confidentiality agreement.

15 For example, I'm working on a case right
16 now regarding Nova Scotia Power's fuel adjustment
17 mechanism and, in that case, I signed a confidentiality
18 agreement that gives me access to a secure website where
19 Nova Scotia Power posts such confidential material as
20 individual plant costs and operating performance data,
21 the costs to comply with the mission's requirements,
22 forecasts of fuel prices, and material regarding the
23 company's fuel price hedging strategies.

24 That agreement also gives me access to a
25 secure data room at NSP's offices, where I can review

1 commercially sensitive material such as individual fuel
2 contracts and hedge agreements as well as individual bid
3 results from fuel supply solicitations.

4 Un -- unfortunately, in this case, no
5 provision of any kind was made for access to confidential
6 data, and so I was unable to assess key findings and
7 conclusions in either the Company's filings or in the
8 three (3) independent studies.

9 Just as an example, without access to
10 confidential data, I could not independently verify ICF's
11 or KPMG's claims regarding the risk-mitigating attributes
12 of the three (3) new long-term contracts, nor could I
13 evaluate KPMG's modelling estimates of the financial risk
14 associated with those contracts.

15 MR. WILLIAM GANGE: On the basis of the
16 material that you were able to review, what conclusions
17 and findings do you have?

18 MR. JONATHAN WALLACH: All of the risk
19 studies presented in this case seem to agree that the
20 Company could suffer severe financial losses, primarily
21 because of its almost sole reliance on hydraulic
22 generation to serve domestic load and to support export
23 sales. The studies show that an extended drought would
24 deplete accumulated retained earnings in a matter of a
25 few years and that, in the absence of compensating

1 measures, earnings would likely remain depressed for
2 several years after the end of a drought.

3 Where these studies differ is in their
4 estimates of the magnitude of the potential threat. In
5 the Integrated Financial Forecast for 2009, the Company
6 estimates a \$2.4 billion earnings loss by the end of a
7 five (5) year drought and, in comparison, the KPMG study
8 estimates that earnings loss would be twice as much as
9 estimated by the Company if a five (5) year drought
10 coincided with a period of high fuel and market prices.

11 In this case, KPMG estimates that retained
12 earnings would be completely wiped out in about three (3)
13 years and would stay strongly negative for almost a
14 decade after that.

15 MR. WILLIAM GANGE: Could you also
16 comment on -- on this issue: Could firm export sales
17 increase Manitoba Hydro's risk exposure?

18 MR. JONATHAN WALLACH: Well, in theory,
19 firm export sales from hydraulic generation could magnify
20 the Company's drought-related financial losses. In a
21 severe drought the hit to earnings would come first from
22 a cessation of short-term non-firm exports, and then
23 second from an increase in cost to serve domestic load
24 with replacement imports and thermal generation.

25 Now a firm export sale would add a third

1 loss factor since, like domestic load, the firm export
2 obligation would have to be met with more expensive
3 sources of power to replace the lost hydraulic
4 generation. And earnings losses could be even greater if
5 those firm sales are supported by new capital investment,
6 since such investments would increase fixed costs and,
7 thus, loses, when export revenues fell short of cost
8 during a drought.

9 Now in terms of the new contracts with
10 Northern States Power, Minnesota Power, and Wisconsin
11 Public Service the Company, ICF, and KPMG all argue that
12 these contracts offer economic benefits that are likely
13 to outweigh their financial risks. And in fact KPMG
14 offers some analytical support for those claims with a
15 simulation analysis that shows that the preferred
16 resource plan with the new contracts is less risky than
17 an alternative resource plan without them.

18 While these arguments are generally
19 plausible, I have no way of validating them without
20 access to the confidential provisions of the new
21 contracts or access to the model data that KPMG used to
22 analyze those contracts.

23 MR. WILLIAM GANGE: Do the KPMG results
24 indicate that the Company's risk exposure is reasonable?

25 MR. JONATHAN WALLACH: Not necessarily.

1 Ultimately the Board should be concerned, not just with
2 whether these new contracts amplify or mitigate financial
3 risk, but more broadly with whether the financial risks
4 associated with the Company's preferred resource plan are
5 tolerable or manageable.

6 And, in particular, the Board's focus
7 should be on whether the almost sole reliance on
8 hydraulic resources threatens the financial stability of
9 the Company and unnecessarily increases the risk to
10 consumers of -- of unreasonable rate increases. From
11 this persepect --
12 or, excuse me, from this perspective the KPMG results are
13 troubling, since they indicate that the Company would
14 likely need to increase borrowings or dramatically
15 increase rates to recover from a drought that is
16 accompanied by high fuel and market prices.

17 Now these results may raise our collective
18 anxiety levels, but they offer little guidance about how
19 realistic those fears are or how we should respond to
20 them. Before we can formulate a response we need to know,
21 not just how large losses could be, but how likely it is
22 that losses would be that large or even larger.

23 And in this sense the Company recognizes
24 that its current approach to risk modelling falls short.
25 And has -- the Company's stated that it's in the process

1 of developing a new model that will provide a more
2 complete picture of the likelihood of potential drought-
3 related financial losses.

4 MR. WILLIAM GANGE: Besides the risk
5 model, should the Company change any other aspect of its
6 risk evaluation process?

7 MR. JONATHAN WALLACH: Yes, along with
8 changing its approach to risk modelling I recommend that
9 the Company also revise its approach to risk assessment
10 in the resource planning process.

11 Currently as -- as far as I understand it,
12 the Company evaluates risk exposure at the back end of
13 the planning process. By this, I mean, the Company first
14 develops a preferred resource plan by comparing the
15 performance of resource alternatives under expected
16 conditions. And then once the preferred plan is
17 formulated its financial performance is evaluated under
18 adverse conditions. While this approach may give you a
19 sense of how risky the preferred portfolio is, it offers
20 little guidance about how to reduce that portfolio's
21 risk.

22 So instead of this after-the-fact
23 consideration of risk exposure I recommend that the
24 Company more fully integrate risk assessment within the
25 long-term planning process itself. And with an

1 integrated approach the Company would evaluate potential
2 resource portfolios both -- both on the basis of their
3 expected long-term costs and in terms of the risk that
4 long-term costs will be greater than expected.

5 By looking at the tradeoffs between
6 expected costs and potential risk exposure the Company
7 could determine whether drought-related risks would be
8 mitigated at reasonable cost by diversifying into non-
9 hydraulic resources such as energy efficiency, wind, or
10 efficient thermal generation.

11 In other words, an integrated approach to
12 risk management -- to risk assessment would provide the
13 capability for identifying preferred resource portfolios
14 that minimize long-term cost at sustainable risk levels.

15 MR. WILLIAM GANGE: And you've just
16 mentioned that the -- the potential for mitigation. Why
17 is it that addition of these addi -- alternative
18 resources to the resource portfolio might reduce
19 portfolio risk?

20 MR. JONATHAN WALLACH: Well, for example,
21 a wind resource might offer three (3) risk-mitigating
22 attributes. First of all, unlike hydraulic generation,
23 wind resource offers annual output that is fairly stable
24 and fairly predictable from year to year.

25 So when -- if you were to add a wind

1 resource to your portfolio, a portfolio which is heavily
2 weighted towards hydro and, therefore, has an overall
3 portfolio output which varies widely from year to year,
4 by adding the wind resource what you're doing is you're
5 dampening the -- the overall variation from year to year
6 of -- of the output from that portfolio.

7 The second risk-mitigating attribute is
8 that if your wind resource happens to be a contract to
9 purchase power from a wind facility, what you've probably
10 done is offloaded the capital cost risk associated with
11 that facility onto the developer of the facility.

12 And, finally, a wind facility -- or the
13 wind resource offers more planning flexibility than --
14 than a hydro alternative in the sense that it has a
15 shorter lead time and -- and can be -- it's -- it's
16 modular, so it can be more closely sized to your needs so
17 that the -- the planning flexibility offered by the wind
18 resource mitigates the risk associated with uncertainty
19 in your forecasted requirements.

20 MR. WILLIAM GANGE: Thank you, Mr.
21 Wallach. I'm now, Mr. Chair, going to move to Mr.
22 Chernick. Mr. Chernick, any updates to your direct
23 evidence?

24 MR. PAUL CHERNICK: Yes, I -- I don't
25 think it's necessary to go over my direct evidence

1 itself, but I think it might be useful to respond to
2 three (3) developments since the time that I filed that -
3 - that evidence.

4 First of all, there's Hydro's rebuttal
5 evidence. There's one (1) point in a Hydro undertaking
6 that I'd like to comment on. And then there's the change
7 in Hydro's proposal for the residential rate design
8 between the original filing that I discussed in my -- or
9 -- and assumed in my direct evidence and its current
10 proposal.

11 MR. WILLIAM GANGE: If we can start with
12 the rebuttal evidence.

13 MR. PAUL CHERNICK: Okay. I -- I have
14 five (5) topics, I guess, that I -- I wanted to -- to
15 deal with in terms of the rebuttal evidence. The first
16 has to do with the cost of service study. And -- and
17 this is a -- basically a procedural issue. Hydro
18 suggests that --

19 MR. ROBERT MAYER: Sir, do you have a
20 page in the rebuttal -- Hydro's rebuttal evidence so we
21 can --

22 MR. PAUL CHERNICK: Oh, I -- I can look
23 that up. I -- I haven't noted it, but I can certainly do
24 that.

25

1 (BRIEF PAUSE)

2

3 MR. PAUL CHERNICK: Page 38 of the
4 rebuttal. I had asked the -- the Board to give specific
5 instructions to Hydro regarding the cost of service
6 methodology and the Company's response is basically that
7 the Board shouldn't issue any instructions regarding the
8 cost of service methodology because Hydro is involved in
9 an external review of cost of service methodology and
10 recommendations will be forwarded in due course.

11 Unfortunately Hydro has a long history of
12 delay in various processes by referring analyses to
13 indefinite study periods. This has been true even when
14 the Board has required filings by a -- a specific date.
15 For example, the study of fuel switching is now about two
16 (2) years late.

17 And this is just not reasonable behaviour
18 for a regulated utility. If the Company can take any
19 issue it wants and sort of hide it under the carpet by
20 saying, Oh, we're working on that, we've got an expert
21 looking at it, we'll be back to you some day, and then --
22 and then we have to take it to our Board, and then maybe
23 we need other consultations, and it's never right for a
24 decision, never right for review by the Board until the
25 Company says it is.

1 That really would undermine the Board's --
2 has undermined the Board's regulatory authority. So on
3 the cost of service study issues the Board should set a
4 deadline and -- and on many of these issues, I think, the
5 Board should simply set a deadline and tell Hydro that
6 the decision making process will proceed at that point,
7 whether Hydro has finished its byzantine review process
8 or not.

9 For the cost of service study
10 specifically, the Board should, in its order in this
11 case, say that these issues will be taken up and
12 determined to the best of the Board's ability in Hydro's
13 next general rate application. And if Hydro hasn't
14 figured out its position, then the ultimate order in that
15 case would be based on the evidence presented by other
16 parties. That's the way it works in all the other
17 jurisdictions I'm aware of that have regulated utilities
18 and I don't see why it shouldn't work that way here.

19 The second subject which comes up at page
20 41 of the rebuttal has to do with the access of the
21 parties to spreadsheets. And this is a -- a subset of
22 the -- of the issue that Mr. Wallach raised, about
23 confidentiality and the -- the Company in this case,
24 specifically withholding information that is -- is either
25 very helpful or essential in the review of -- of their

1 work.

2 As with the cost of service study the
3 Company asks the Board to give it some un -- indefinite
4 amount of additional time to think about something having
5 to do with whether it can put its spreadsheets into
6 emails, onto a website, onto a CD, or otherwise provide
7 them to Intervenors.

8 We've demonstrated in this proceeding that
9 Hydro has presented results in its exhibits that are not
10 consistent with the inputs to those exhibits. The
11 Company has made errors or had had little adjustments
12 embedded in their calculations that they didn't mention
13 to the Board, maybe they've just forgotten about and have
14 overlooked the errors the Company was presumably not
15 aware of until we pointed them out.

16 But in order to do that, in order to find
17 those errors, we had to take their PDF documents,
18 essentially manually copy the data into spreadsheets, and
19 then try to reverse engineer Hydro's computations and
20 say, Well, it looks like they're doing this, it would
21 make sense if they were doing this, do the calculation we
22 think that they should be doing and see if it matches.

23 If it doesn't match, we then have a number
24 of possibilities: that Hydro had an error in their
25 formulas; that they had some other adjustment that they

1 didn't mention -- both of those have turned out to be
2 true in -- in various cases; that we made a mistake, and
3 so we have to go back and -- and look at that; that
4 there's some assumption about the number of hours, the
5 number of -- of, say, holidays that affect on and off
6 peak hours, for example, the effect of -- of going on and
7 off daylight savings time, all kinds of little things
8 that -- that might make two (2) calculations right, or
9 approximately right, but different. We have to try and
10 figure out whether there's some factor like that that's
11 contributing to these problems or -- or whether it's one
12 (1) of the other causes.

13 And then it's just a colossal waste of
14 time and effort on the part of the other parties, which
15 in -- ultimately means it's a waste of the costs that
16 are borne by Hydro's customers. And, you know, we -- we
17 get paid for -- for doing all of these reverse
18 engineering projects, but I would much rather save us the
19 time and aggravation and save the consumers the money.

20 As part of Hydro's rebuttal on this point,
21 the Company raises the issue of intellectual property
22 rights and third-party proprietary rights related to the
23 Corporation's data and electronic spreadsheet models.
24 Now, that strikes me as being simply a -- a red herring,
25 a distraction in this case, for at least four (4)

1 reasons.

2 First, most of the spreadsheets in
3 question represent only arithmetic computations and
4 contain no intellectual property. And the question is:
5 Which columns were they adding up? What constants were
6 they multiplying by? What adjustments did they make that
7 aren't mentioned in the tables themselves? It has
8 nothing to do with any intellectual property in -- in
9 some clever computational algorithm.

10 And, secondly, even if there were some
11 situations in which Hydro had done something clever, it's
12 -- it's absurd for the Company to be asserting the right
13 to hide its so-called intellectual property from the
14 customers who paid for the development of that property.

15 Third, very few of Hydro's spreadsheets
16 represent anything that would be like a potentially
17 saleable product in which there would be any value to
18 intellectual property. I can't imagine anyone else
19 paying Hydro to get the live version of their proof-of-
20 revenue co -- computation, for example. Every utility
21 has different rates, different data inputs, and is going
22 to undertake that relatively straightforward, although
23 labourious, calculation using their own parameters, and
24 there's nothing in Hydro's analysis that -- that would be
25 a saleable piece of intellectual property.

1 And, finally, if Hydro really had some
2 realistic hope of turning some particularly clever
3 spreadsheet into a marketable product, it could provide
4 the spreadsheet subject to confidentiality agreement. As
5 Mr. Wallach noted, utilities all over North America do
6 this on a regular basis, prohibiting the use of -- of
7 that clever programming outside the realm of Manitoba
8 regulation and preventing -- and -- and prohibiting the -
9 - the provision of the spreadsheet to non-signatories.

10 I would very much like to see the Board
11 order Hydro to prepare all of its exhibits that are
12 computational in nature for its next rate case in
13 spreadsheets that can be provided to the parties with all
14 formulas intact. If there are notes in the margins of
15 those spreadsheets, as the Company has suggested, that
16 would be embarrassing in some way that -- or that would
17 expose truly confidential business information, like
18 contract pricing, the Company should prepare spreadsheets
19 that don't have that information. They've got -- they
20 will have time between now and their next filing to put
21 together a clean set of spreadsheets and provide them to
22 facilitate the review of -- of their work.

23 As -- as sort of a side issue in the
24 discussion of live spreadsheets, Hydro sort of
25 reformulates the -- the question as one of electronic

1 filing, by which I take it they're referring to a process
2 in which the official version of documents provided to
3 the Board would be filed electronically rather than a
4 hard copy and that there would be some control over the
5 official versions of -- of the electronic documents.

6 That may be something that -- that should
7 be pursued, but it's not the same as providing
8 spreadsheets in the live and -- and useable version.
9 I've received spreadsheets on discovery and as parts of
10 filings by email. I've downloaded them from websites,
11 both public and, as Mr. Wallach pointed out,
12 confidential. I have received them on CDs. And before
13 that, I received them on floppies delivered by express
14 mail and sometimes even by postal mail.

15 Any of those will do. You don't have to
16 have a fancy electronic interchange system in order to
17 provide a spreadsheet that other parties can work with so
18 everyone understands the calculations and they don't have
19 to guess at what Hydro might have been thinking.

20 The third issue comes up on page 42, rate
21 design for general service classes, the -- and -- and
22 really, I guess, on top of page 43, Hydro complains about
23 the difficulty of administering declining block rates for
24 general service customers -- excuse me, inclining block
25 rates for general service customers.

1 And just as Hydro says, Well, we don't
2 know what to do about the cost of service study, we don't
3 know what to do about providing spreadsheets, Hydro
4 doesn't know what to do about implementing inclining
5 block rates for general service customers even though the
6 Board has ordered the Company to move towards inclining
7 block rates on a general basis.

8 And perhaps Hydro's confusion on this
9 point arises from its assumption that inclining block
10 rate would be the sort of complex rate that they proposed
11 in -- but have since withdrawn in the energy intensive
12 industry rate proposal.

13 That complexity is not necessary to start
14 the process of implementing inclining block rates. And
15 if there are too many general service customers to
16 implement inclining block rates for all of them
17 simultaneously because you're concerned about the number
18 of questions you're going to get in the first year or two
19 (2) of the program, then you can phase it in, start with
20 the largest customers and work your way down.

21 In terms of being able to deal with
22 setting some kind of baseline for thousands or tens of
23 thousands of customers. Pacific Gas and Electric
24 establishes a historic baseline for each of its millions
25 of residential customers to determine whether they're

1 eligible for a discounted rate. And the number of
2 customers that Hydro would have to deal with to implement
3 inclining block commercial rates would just pale in
4 comparison.

5 Hydro also complains about its ability --
6 the ability of its billing system to handle a rolling
7 baseline, which by the way, was just a -- an example that
8 I had thrown out. That would be a reason to use a fixed
9 baseline, to do the calculation once, give each customer
10 a baseline that -- that their inclining block will be
11 driven by and leave that fixed, and at some point in the
12 future look at it again and see whether there is some
13 need to update it, but it doesn't have to be a continuous
14 process. I know that utility billing systems often
15 interfere with things even that the utility would like to
16 do.

17 I -- I think the major thing that Hydro is
18 lacking in terms of getting started with inclining block
19 general service rates is the will to do so. Any change
20 should be phased in gradually so that customers
21 understand it and can react to it before the rate impacts
22 are major. And so there -- there shouldn't be any
23 important rate effects for customers in the first few
24 years, the first few steps of an inclining block rate
25 design. But it's important to get started so that you

1 can go through those years of minimal impact, minimal
2 effectiveness, and start to get to the point where you're
3 really giving significant price signals to customers at
4 the margin.

5 MR. ROBERT MAYER: Mr. Chernick, on that
6 point, Hydro, on Board orders, did start to implement
7 inverted rates with respect to residential customers. We
8 have had, as a Board, several presentations, several
9 objections, some of which the Board considers legitimate,
10 from full-service electricity users who have no other
11 option but to heat their homes with electricity.

12 As a result, the Board's last order was
13 stop the inversion process so we can look at this because
14 the -- the differences are significant. The difference
15 between what - for example, I realize I get awful
16 personal about this because I happen to be one of those
17 customers who has -- who has no access to any other
18 reasonable method of heating in a place that requires
19 heating substantially longer than people in Winnipeg are
20 required to heat their homes. That's become a problem
21 with this.

22 And I realize at the beginning when
23 RCM/TREE first made that suggestion there was also a
24 suggestion that there be a separate trigger point for
25 fully electric and standard electric heating, but I

1 should tell you that it hasn't gone as smoothly as you
2 suggested it might.

3 MR. PAUL CHERNICK: Sorry about that. I
4 think it hasn't gone as smoothly as I suggested in part
5 because the Company never got to the point of proposing,
6 let alone implementing, any -- any accommodation for
7 electric heating customers. And I suggested what I -- in
8 the previous case, what I thought was a perfectly
9 reasonable approach of simply having a larger first block
10 for heating customers in the -- in the winter months.

11 And the Company has been throwing up its
12 hands and saying, Well, we can't be absolutely certain
13 that we can identify the heating customers accurately and
14 therefore we -- we can't do anything along those lines.
15 There's another situation where a good idea is just
16 stopped because Hydro won't do anything about it.

17 Now, it turns out, part of my presentation
18 this morning was going to deal with the -- the
19 disappearance of the inclining block rate. And if you'd
20 like, I can go into that now.

21 MR. ROBERT MAYER: I hadn't realized it
22 was coming. It seemed the ideal time to raise the --

23 MR. PAUL CHERNICK: Okay.

24 MR. ROBERT MAYER: -- question when you
25 talked about going further with the -- with block -- with

1 the inverted rate into other classes.

2 MR. PAUL CHERNICK: Right. And -- and I
3 -- you know, and I am suggesting that for the general
4 service rates that the initial differences be quite small
5 so that you don't have big rate effects and customers can
6 be educated as to the effects. And any rough spots can
7 be worked out when the impacts are still manageable.

8 So would you -- would you like to -- to
9 talk some more about the residential rate side now, or --

10 MR. ROBERT MAYER: No, I don't want to
11 interrupt your presentation, sir, just proceed, I --

12 MR. PAUL CHERNICK: I --

13 MR. ROBERT MAYER: The -- the fact that I
14 know that it's coming is -- I'll wait it with bated
15 breath.

16 MR. PAUL CHERNICK: Okay. That -- that
17 can be my encore. Okay. The -- the -- the next subject
18 that Hydro's rebuttal takes me to task for is on page 44
19 at -- and -- and this is really a -- of their rebuttal.
20 And it's really a -- a tempest in -- in a teapot. But I
21 -- I include in my testimony some recommendations about
22 what might eventually be done with the additional
23 revenues that would be collected if rates move to cov --
24 recover all marginal energy and demand-driven costs.

25 And obviously this is a -- a -- an issue

1 for some future -- probably far future, determination
2 since we're not moving in that direction very fast at the
3 moment. But if you reach the point where the phase in of
4 marginal costs start to be constrained by the revenue
5 requirement, the Board would have to consider how any
6 excess revenue should be utilized.

7 And that certainly could involve
8 consulting the government as appropriate. I think
9 there's probably more that the Board could do within its
10 purview than -- than Hydro has -- has indicated in its
11 rebuttal. There's a lot that can be implemented through
12 electric rates, including, as you heard yesterday,
13 assistance to low-income customers.

14 But as I said, those are issues that the
15 Board would have to take up some years in the future.
16 The final issue in terms of the rebuttal is the Company's
17 defence of its DSM program, starting on page 45 of the
18 rebuttal.

19 And just to recap the action so far, in my
20 direct I showed that Hydro was spending less and aiming
21 for lower energy efficiency savings as a percentage of --
22 of sales, energy use, than the leading jurisdictions,
23 even in the short-term, and was planning to phase down
24 those levels of effort dramatically after 2011.

25 I also pointed out that Hydro's own

1 external review, the Dunsky report had faulted Hydro's
2 program designs in several areas and pointed out that
3 Hydro hobbles some DSM measures and programs that do not
4 pass the so called RIM or No Loser's test.

5 Hydro's responses had a -- a number of --
6 raised a number of -- of interesting and, in some ways
7 disturbing, points. The first was -- the first excuse
8 for their much lower numbers was that, quote, "Any region
9 having a higher conc -- concentration of industrial
10 load," unquote, will have less energy efficiency. Now
11 the rebuttal provides no support for this assertion. In
12 many energy efficiency plans, and achievements for that
13 matter, the percentage sales reductions are greater in
14 the commercial and industrial sector than in the
15 residential sector.

16 And within commercial and industrial,
17 small commercial customers are notoriously difficult to
18 reach and require a -- much more effort on the part of
19 the -- of the utility or implementing agency.

20 And, furthermore, the -- even if Hydro
21 were correct, that potential is somewhat lower in the
22 industrial class than in the other classes, then it --
23 looking at the data that they provide in Table 1 of their
24 rebuttal, which shows the mix of -- of classes across
25 four (4) or five (5) jurisdictions, if you -- if you even

1 assumed that there was no potential in industrial in it
2 for any of the utilities listed and then said, Okay, so
3 assume that the potential comes entirely from the other -
4 - the -- the achievements in the other jurisdictions,
5 come entirely from the other two (2) classes, and applied
6 that to Hydro, then you would still get Hydro's savings
7 ratio as a percentage of sales should be something like
8 84 percent of Vermont's because they have a little more
9 industrial, but it -- it's not dominant.

10 Well, scaling down the Vermont savings by
11 16 percent, bringing it down to 84 percent, would be 2.2
12 percent a year, which is about three (3) or four (4)
13 times what the Company's projecting in the -- in the near
14 future, or -- or was at the time of my direct testimony.
15 And the same is true for Minnesota, for Connecticut. You
16 wind up with numbers in the 1.3 to -- to 2 percent range,
17 all much more than the .6 percent that Manitoba Hydro is
18 projecting, even in the first few years, and certainly
19 much more than they're projecting, or were projecting,
20 after 2011.

21 They make the same claim about any region
22 having a higher concentration of space and -- and heating
23 load, that there's a lower savings and -- and hence,
24 lower spending rates. Now, it's not clear why that
25 should be, given all the opportunities for improvements

1 of insulation, improvements of building shell, reducing
2 the infiltration rates, converting electric resistance to
3 ground-source heat pumps, and other space-heating and
4 water-heating measures. It's just an assertion for which
5 the -- the Company provides no basis whatsoever. Again,
6 the potential in space and water heating would have to be
7 unbelievably tiny to bring the Hydro numbers into some
8 reasonable relationship to the -- to the goals of the
9 other utilities.

10 Hydro also claims that -- that targets
11 just are not appropriate and that you -- that, really,
12 the only reasonable way to project or to aim for savings
13 is to start with Hydro's estimates of the effects of
14 their program designs. But Hydro brought in some outside
15 reviewers who looked at their program designs and said,
16 These are not so good. There's a lot of room for
17 improvement here, and you're using the -- this RIM test
18 to -- as a -- as a reason for not being more aggressive
19 in your -- in your programs. The external benchmarks are
20 helpful in showing just how tepid Hydro's results are
21 compared to industry leaders.

22 The fourth point that they raise is that
23 Hydro offers comprehensive programs but other utilities
24 don't. Looking at the list of things they claim other
25 utilities don't provide in their -- their efficiency

1 programs, I think they may have misinterpreted some --
2 some program designs. But if those utilities actually
3 achieve savings much higher than Hydro does without
4 exploiting significant parts of the market, then Hydro
5 could do even better with its comprehensive breadth of
6 offerings and deeper, more effective savings, which are
7 the kinds of -- of complaints that I think the Dunskey
8 report raised.

9 Hydro goes on to say that the DSM test
10 isn't really restricting its ability to pursue energy
11 efficiency opportunities because it's implemented a
12 number of programs that do not pass the RIM test. Well,
13 that doesn't demonstrate that the RIM test isn't
14 interfering with the effectiveness of their programs. It
15 means that they're still willing to do some programs, to
16 some extent hampered in ways that we don't really know
17 because we don't know exactly what decisions were made
18 based on the RIM test. And Hydro's position that if we
19 have anything that passes the RIM test, therefore, we're
20 paying no attention to the RIM test, conflates two (2)
21 very different issues.

22 The Hydro rebuttal focusses on the Multi-
23 family Housing program and the criticisms of that program
24 in their consultant's report. And they say that -- they
25 basically make the point that, Well, our program must be

1 successful because about 60 percent of multi-family
2 buildings have adopted one (1) or more measure from one
3 (1) or more programs.

4 Of the nine (9) programs, the average
5 participating building appears to participate in only two
6 (2), which could be a small amount of -- of common area,
7 fluorescent lighting retrofit and a lighting controller
8 for the parking lot, for example, leaving lots of other
9 things, that could be done, undone.

10 Again, Dunsky and his collaborators were
11 saying, You should be doing a better job with this class,
12 not, You should be throwing lots of programs out and
13 hoping that people will pick up little bits and pieces.
14 Unfortunately, Hydro's responses on the DSM issues do not
15 demonstrate a commitment to maximizing the benefits of
16 energy efficiency for customers.

17 And, finally, on DSM I'd like to point out
18 that the 2010 smar -- Power Smart plan, which came out
19 after my direct evidence was filed, actually reduces
20 savings goals for 2011 through '13, but then increase
21 2012 and -- excuse me, 2014 and '15 goals a little bit.
22 And then again the goals drop off a cliff once you get a
23 few years out. So this is not a long-term plan or
24 commitment for energy efficiency. It's a short-term sort
25 of halfhearted effort.

1 CONTINUED BY MR. WILLIAM GANGE:

2 MR. WILLIAM GANGE: You also mentioned
3 that you wanted to comment on an undertaking, and the
4 reference is Manitoba Hydro Exhibit number 137, which was
5 Manitoba Hydro Undertaking number 130, which arose out of
6 the -- the cross-examination on April 15th. The -- the
7 undertaking was that Manitoba Hydro was to advise of the
8 criticism that Manitoba Hydro has of Mr. Chernick's
9 testimony in regards to allocation of substation costs.
10 If you could comment on -- on Exhibit number 137?

11 MR. PAUL CHERNICK: Yes.

12

13 (BRIEF PAUSE)

14

15 MR. PAUL CHERNICK: In -- in that
16 undertaking response Hydro asserts that:

17 "Customer density is a significant
18 driver of the costs of poles and
19 wires."

20 And that statement is just completely
21 implausible on its face. The number of customers in a
22 given area between two (2) points along the street, for
23 example, does not increase the cost of poles, does not
24 increase -- increase the cost of wires.

25 Now if those customers are larger, or each

1 of -- if you say, Well, we have three (3) small customers
2 along the road and we're gonna re -- then have fifteen
3 (15) customers of the same size, well, then you may need
4 larger wires. You might need poles more often to support
5 your larger wires. That kind of thing is plausible, but
6 that's a load effect, that's not a -- not related to
7 customer number.

8 Having more customers in a given area does
9 not increase your cost. Your costs are driven by load,
10 and to some extent by the -- the area that you need to
11 span, which does not have to do with the number of
12 customers. It has to do with the location of the
13 furthest customer that you're willing to extend the
14 system to.

15 MR. WILLIAM GANGE: You also mentioned in
16 -- in the introduction that you wanted to comment upon
17 the change in Hydro's proposal for the residential rate
18 design. And can you comment on the disappearance of the
19 inclining block proposal for residential rate design?

20 MR. PAUL CHERNICK: Yes, I -- I have a
21 subtle feeling that the Board might be interested in this
22 subject. The original Hydro filing in this case proposed
23 to decrease the basic charge in two (2) steps and
24 increase the tail-block, which then was over nine hundred
25 (900) kilowatt hours a month. And that proposal has

1 disappeared from Hydro's current proposal for the final
2 rates.

3 I recommend that the Board implement the
4 rate change contemplated in the original Hydro proposal
5 re -- for the -- the second year. Now we didn't get a
6 first year step, so we would be starting with the second
7 year. You'll only have half of the total effect that --
8 that Hydro was proposing originally, which would be to
9 reduce the basic charge about 17 percent compared to the
10 first year interim rates and increase the energy charge
11 above nine hundred (900) kilowatt hours by 5 percent
12 compared to the charge under nine hundred (900) kilowatt
13 hours. So the differential between the first block and
14 the second block would be about 5 percent.

15 Now since nobody pays rates entirely in --
16 in the second block and nobody -- and every residential
17 customer pays the basic charge the -- the break-even
18 point would be considerably higher than nine hundred
19 (900) kilowatt hours, that is at which the net bill would
20 go up. And -- and nobody's bill would go up by 5 percent
21 as a result of that.

22 In the longer term the -- the Board should
23 be aiming to reduce the basic charge to -- at least down
24 to the four eighty-five (485) range that Hydro originally
25 sought in this case and keep it at -- at those -- at

1 those relatively low levels and use the additional
2 revenues to further increase the tail block rate towards
3 marginal cost.

4 Simultaneously, the break point between
5 the blocks should move down from the nine hundred (900)
6 proposed by the Company to roughly six hundred (600)
7 kilowatt hours so the non-heating customer -- so that
8 more non-heating customers will be in the tail block rate
9 at the margin and get the conservation incentive.

10 MR. WILLIAM GANGE: And then, Mr.
11 Chernick, if you could comment on heating customers. How
12 would this -- how would rates -- how should the rate
13 design affect heating customers?

14 MR. PAUL CHERNICK: Well, the -- the
15 solution would be to increase the size of the first block
16 for the existing heating customers in the winter months
17 so that their average rate paid in the winter months is
18 about the same as what the non-heating customers are
19 paying in those months.

20 And you could either do that by having the
21 same block size in -- in each month or you could shape it
22 somewhat with November and March being a smaller block
23 and December through February being larger, depending
24 upon how fancy you wanna get with that and how much --
25 there's a trade off there between, sort of, smoothing the

1 effect over the -- the course of the year and making the
2 -- the rate design more complex and potentially
3 confusing.

4 MR. ROBERT MAYER: I think you'll have to
5 add into that bit of a problem is the equ -- rate
6 equalization material -- or legislation that exists. If
7 you start putting -- if you -- if you limit the larger
8 block to certain months, the farther north you get, the
9 broader those months have to be as opposed to if -- where
10 the vast majority of customers are within the Perimeter
11 Highway.

12 The heating periods -- well, not so much
13 this year, but generally speaking, the heating periods
14 are -- are much shorter in Winnipeg than they are in
15 Churchill or Tadoule Lake. Well, let's not deal with
16 Tadoule Lake because they're doing diesel. Larger in
17 Churchill, Flin Flon, The Pas, and Thompson than they
18 would be here.

19

20 (BRIEF PAUSE)

21

22 MR. PAUL CHERNICK: What I hear you
23 asking is how do we deal with the fact that the heating
24 loads are different in different parts of the province.
25 And, therefore, an average-sized home with -- of a given

1 vintage with a given level of energy efficiency is going
2 to use more electricity for heating in the north than in
3 the south and use it in more months.

4 In -- in terms of the months I think
5 that's less of problem because while it -- it's a -- as I
6 said, in terms of -- of how you shape the winter block,
7 whether the -- the customers have a larger block than
8 necessary in one (1) month and a smaller one (1) in
9 another month is less important in terms of their bill
10 impact certainly than the total amount of -- of first
11 block energy they're allowed during the winter.

12

13 (BRIEF PAUSE)

14

15 MR. PAUL CHERNICK: The...

16

17 (BRIEF PAUSE)

18

19 MR. PAUL CHERNICK: The legislative issue
20 that you've raised is a -- is an interesting one (1) and
21 one (1) where you might want to go back to the government
22 and ask them to -- to change that in a specific way to
23 allow for higher allowances for heating use in the -- in
24 the north to give the Board the -- the discretion to
25 apply that.

1 That is done in -- in some states, for
2 example in California, which has a wide range of climate
3 zones from the subtropical to the -- the near arctic up -
4 - up in the mountains. There are rate designs that vary
5 depending upon which zone you're in.

6 MR. ROBERT MAYER: That would be an
7 interesting concept since it was we in Northern Manitoba
8 who got tired of paying higher rates than Winnipeg when
9 all the power came from Northern Manitoba, to now go back
10 and suggest that now not only do we want rate
11 equalization, now we want rate preference, might be seen
12 by the rest of the people inside the perimeter as being a
13 little much.

14 MR. PAUL CHERNICK: Well, I wouldn't put
15 it that way. I -- no, and seriously, what I would
16 suggest that the -- that the legislation allow would be
17 that the Board be allowed to set rates geographically,
18 taking climate into account so that average rates --
19 excuse me -- yes, average rates paid in the various
20 climates would be comparable.

21 Now with an inclining block rate you've
22 pointed out the average rate paid over more kilowatt
23 hours in the north would be higher than in the south.
24 Well, I -- I assume the government is interested in
25 energy conservation, would be supportive of inclining

1 block rates. Inclining block rates would cause a
2 problem.

3 It's a fairly straightforward solution to
4 say, Okay, you have to have to have comparable rates, but
5 that could mean a different rate design that produces
6 comparable rates given differences in climate, which is
7 something people can't do anything about. And that --
8 that would then give you enough flexibility to say that,
9 as you go further north, those blocks can increase.

10

11 CONTINUED BY MR. WILLIAM GANGE:

12 MR. WILLIAM GANGE: Hydro has, in the
13 past, said that they don't have the data to identify
14 heating customers. How would -- how would you deal with
15 that issue?

16 MR. PAUL CHERNICK: Well, I think you can
17 do a pretty good first cut of -- of doing that by just
18 looking at the -- the bills of customers over the last
19 couple of years, and looking at the difference between
20 their winter bills and their summer bills and assume that
21 anyone who's using more than twice as much in the winter
22 months than the summer months is a space-heating
23 customer.

24 Anybody that you've missed for some
25 reason, like they happened to be away in December and

1 January over the last couple of years and, therefore,
2 their bills didn't look so high, I'm sure, you know,
3 there -- you can set up a mechanism for them to come back
4 and say, Oh, no, no, we really are space-heating
5 customers and -- and then, perhaps piggy-backing on the
6 Power Smart mechanism, have -- have somebody go out and -
7 - and actually take a look at the building, confirm that
8 they are electrically heated, do an audit, prescribe
9 efficiency measures for them and simultaneously also get
10 them on the rate that they're allowed to be on.

11 MR. ROBERT MAYER: Mr. Chernick, there
12 seems to be some suggestion that there may be some people
13 in the south who are heating their indoor swimming pools
14 and, although that may be technically heating, it's not
15 space heating by anybody's definition.

16 What is wrong with an application? I
17 mean, if you -- if you're concerned that somebody might
18 be -- might be using heat in another way, since Hydro has
19 to send out bills to everybody in any event, the -- an
20 application for the increased changeover rate, or
21 changeover number, and if they -- so you certify that
22 you're in fact using electricity to heat your house. If
23 they've got a question, come out and see me. I mean, you
24 can look in my house.

25 And I just don't understand why this is

1 becoming a problem. If I tell you I'm space heating,
2 call me a liar and come on over and see me. You may want
3 to prosecute me if -- if I've sworn an affidavit to that
4 effect but, quite frankly, I don't understand why we have
5 to get -- make it all that complicated.

6 MR. PAUL CHERNICK: I don't think it is
7 that complicated in -- in most places. Many
8 jurisdictions have heating rates but, in many cases, when
9 units were built, they were -- the -- the utility
10 determined that they met their standard for being an
11 electrically heated building, and they were flagged that
12 way in the billing system, and they may have been there
13 for forty (40) years, and in -- in the meantime they may
14 have put in gas but they're still flagged that way. And
15 there's a clearly defined set of electrically heated
16 buildings. The -- and the -- to the extent that the
17 utility stumbles upon something that's -- that's
18 incorrectly designated, they change that.

19 You could also -- it -- it sounds to me
20 like -- like you're -- you're suggesting that it might be
21 easier to just let people self-certify as being heating
22 customers in the first place and then verify, and I think
23 that might also work fine and you could use the building
24 data tests that I suggested as a -- as a screen for the
25 ones who have self-certified. Periodically, the -- the

1 Company could -- could do a -- a -- sort of a batch run
2 through to see whether in fact they look like they're
3 behaving like space-heating customers, and if somebody's
4 not, if they're a large customer but they're -- they're
5 using a lot of electricity summer and winter, well, then
6 you can go out and find out what's going on. And if they
7 -- if they don't cooperate or in fact they don't have
8 electric space heating, then you can take them off the
9 rate.

10 Either of the things work. It's my
11 understanding that the Company also has some kind of
12 imperfect list designating who's a space-heating customer
13 now. So with all of those approaches available, I -- I
14 don't see why it's so difficult. But as I pointed out in
15 -- earlier in my direct, there are a lot of things that
16 don't seem to be that difficult in other places that
17 Hydro finds difficult.

18 MR. WILLIAM GANGE: That concludes the
19 direct examination of both Mr. Wallach and Mr. Chernick,
20 Mr. Chair.

21 THE CHAIRPERSON: Thank you, gentlemen.
22 Thank you, Mr. Gange. We'll take our break. And then
23 when we return, Mr. Williams.

24

25 --- Upon recessing at 10:46 a.m.

1 --- Upon resuming at 11:11 a.m.

2

3 THE CHAIRPERSON: Okay. Mr. Williams...?

4 MR. BYRON WILLIAMS: Yes.

5 THE CHAIRPERSON: Wise if we waited for
6 Ms. Ramage.

7 MR. BYRON WILLIAMS: Mr. Chairman, while
8 you're waiting, and I've notified Mr. Wallach, but apart
9 from Mr. Wallach's evidence, I will be referring to the
10 yellow book of documents that was handed out as part of a
11 CAC/MSOS exhibit last week.

12

13 (BRIEF PAUSE)

14

15 THE CHAIRPERSON: Okay, Mr. Williams, we
16 have it so you can begin.

17

18 CROSS-EXAMINATION BY MR. BYRON WILLIAMS:

19 MR. BYRON WILLIAMS: And good morning,
20 Mr. Chairman and Mr. Vice-Chair. Mr. Wallach, if you can
21 turn to page 9 of your evidence starting at lines 24 to
22 26. Do you have that, sir?

23 MR. JONATHAN WALLACH: I do.

24 MR. BYRON WILLIAMS: And -- and you --
25 you made this point this morning, but I thought it was

1 worth going over in just a bit more detail. But do you
2 recall making a statement about seeing how realistic our
3 fears are or something to that effect? Do you recall
4 that comment, sir?

5 MR. JONATHAN WALLACH: I do recall that,
6 yes.

7 MR. BYRON WILLIAMS: And the point you
8 make, sir, is -- is when we're looking at risk from the
9 perspective of Manitoba Hydro it's important to look at
10 the severity of outcomes, but it's also equally important
11 to look at the probability of those outcomes.

12 Would that be fair, sir?

13 MR. JONATHAN WALLACH: That -- that's a
14 fair characterization.

15 MR. BYRON WILLIAMS: And as you point out
16 at the start of this paragraph at the bottom of page 9,
17 you point out, I'll suggest to you, two (2) limitations
18 in the existing Company and KPMG analyses. The first
19 being that they do not indicate how likely these
20 potential severe financial losses might be and, secondly,
21 that they don't indicate to what extents -- extent losses
22 might even be worse than that -- what is forecast by
23 these analyses. Is that fair, sir?

24 MR. JONATHAN WALLACH: That's also a fair
25 characterization. I should point out that both those

1 reports acknowledge the limitations of the -- of the
2 stress testing or scenario analysis that they're
3 undertaking and they discuss -- at least the KPMG Report
4 discusses alternatives.

5 MR. BYRON WILLIAMS: And as we move
6 forward together on -- looking both at Manitoba Hydro's
7 risks as well as its resource plans, the point you're
8 making is that there's an opportunity to take a more
9 probabilistic look at -- at potential outcomes.

10 Would that be fair?

11 MR. JONATHAN WALLACH: That's correct,
12 and -- and, in particular, to take a look at those issues
13 with respect to the resource planning process and to --
14 again, as I -- as I said in my direct evidence this
15 morning, not to think of it as something that you do at
16 the back end, but you incorporate it as part of the
17 resource planning process so that you are taking account
18 of the stochastic issues as you are assembling your
19 preferred resource portfolio.

20 MR. BYRON WILLIAMS: And, sir, I have
21 your point about resource planning and -- and the
22 importance of incorporating stochastic analysis prior to
23 -- to entering into these processes. I just want to nail
24 you down that in terms of the assessment of risk of well
25 those -- those stochastic methodologies are equally

1 important, correct?

2 MR. JONATHAN WALLACH: Yes, and that's --
3 it's -- it's inherent in -- in the assessment of risk
4 that you want to look at uncertainty and -- and the --
5 the stochastic nature of -- of your, you know, key input
6 factors. And -- and so what I'm suggesting is that you
7 do that as part of your risk assessment, and that your
8 risk assessment be part of your resource planning
9 process.

10 MR. BYRON WILLIAMS: And just directing
11 your attention to page 10 of your evidence for just one
12 (1) moment because I do not think you covered this in
13 your oral evidence this morning. Starting at line 6
14 going down to line 19.

15 Without asking you to elaborate, in my
16 first question I'll ask you to confirm that you do make
17 reference to some of the recommendations of professors
18 Kubursi and Magee in terms of rate increases and/or other
19 measures to increase retained earnings.

20 You -- you make a reference to those?

21 MR. JONATHAN WALLACH: I -- I do, yes.

22 MR. BYRON WILLIAMS: And in terms of
23 guidance to the Board in acting on any of those
24 recommendations, again without asking you to elaborate,
25 I'll give you that chance in just a second, you suggest

1 that it would be premature for the Board to do so at this
2 point in time for two (2) reasons.

3 Would that be fair, sir?

4 MR. JONATHAN WALLACH: Yes, two (2)
5 related reasons.

6 MR. BYRON WILLIAMS: And I have your
7 point about how they're related and perhaps I'm
8 simplifying it too much, but let's put them together as
9 one (1) then.

10 The related reasons are, first of all, you
11 -- you think that one should look at Manitoba Hydro's new
12 risk model and the guidance that it gives us in terms of
13 the likely magnitude of expected losses, the likelihood
14 of more severe losses, and the extent to which forecasted
15 losses would fall within tolerance limits, all within the
16 context of looking at the broader resource plan.

17 Would that be fair, sir?

18 MR. JONATHAN WALLACH: Yes. And -- and
19 again, it -- it's part and parcel of this notion of
20 whether you're doing your risk assessment at the back end
21 or integrated with your ongoing process. And so if
22 you're doing it at the back end then your options for
23 what to do about a scenario that's too risky are much
24 more limited and, in fact, limited to perhaps what the KM
25 report recommends, which is to try and increase your

1 retained earnings buffer.

2 MR. BYRON WILLIAMS: And I thank you for
3 that because I -- I think you've enhanced my -- my
4 concept of -- of that point you were making.

5 Perhaps you can turn to page 22 of your
6 evidence. On the way there you might take a peek at page
7 21 and -- just for -- for context.

8 Do you have those two (2) pages, sir?

9 MR. JONATHAN WALLACH: I do.

10 MR. BYRON WILLIAMS: And at a high level
11 without ask -- oh, I can't say that anymore, Mr. Mayer.
12 At a -- at a preliminary level, Mr. Wallach, what you're
13 doing on -- on these two (2) pages, the discussion on
14 page 21 and 22, without asking you to elaborate but just
15 to confirm, you're looking at some of the relative merits
16 of stress tests versus more probabilistic Monte Carlo
17 simulations. Would that be fair, sir?

18 MR. JONATHAN WALLACH: Yes, it would.

19 MR. BYRON WILLIAMS: And the point you
20 make, directing your attention to page 22, lines 8 to 15,
21 you suggest that Monte Carlo simulations offer a number
22 of advantages over sensitivity analysis with respect to
23 the quantification of risk exposure. Would that be fair?

24 MR. JONATHAN WALLACH: That -- that's --
25 that would be fair, yes.

1 MR. BYRON WILLIAMS: And collect --
2 collectively those three (3) bullet points there between
3 lines 11 and 16, sir, I wonder if I could ask you, rather
4 than dir -- controlling you through it, give you a bit of
5 rein to just elaborate on -- on what you mean by those
6 three (3) bullets, sir?

7 MR. JONATHAN WALLACH: Certainly. I
8 think just to put it in comparison to sensitivity
9 analysis, with the sensitivity analysis what you're
10 basically doing is picking a point -- you have a -- an
11 input variable which is stochastic in nature. And what
12 you're doing with sensitivity analysis is you're
13 attempting to pick an extreme point on the probability
14 distribution associated with that stochastic variable and
15 model the effect of using that extreme value as an input
16 to your modelling.

17 The problem with that approach is that you
18 don't really have a sense of how extreme your assumption
19 is. You haven't really thought about or -- or considered
20 what that probability distribution looks like. And you
21 don't gain any information from that process about what
22 the effects would be from picking other points on the
23 distribution for that stochastic variable.

24 In contrast, something like a Monte --
25 Monte Carlo simulation, what you would do is you would

1 model that variable explicitly as -- as a stochastic
2 variable with a predefined distr -- probability
3 distribution. And you would allow the model to randomly
4 select points on that input distribution to define a
5 future, to define a forecast of whatever outcome you are
6 -- you're modelling.

7 And as a result, when you do Monte Carlo
8 sim -- simulation is you get from modelling a stochastic
9 variable as a distribution of inputs, you get a
10 distribution of outputs, a distribution of outcomes. And
11 that allows you to identify not only what the expected
12 value of the outcome might be but also what -- what the
13 distribution of those outcomes might be and, therefore,
14 what the -- what the likelihood of any particular outcome
15 might be.

16 MR. BYRON WILLIAMS: I thank you for that
17 and we'll come to the third bullet, which is predefined
18 tolerance limits in just a second. And this is -- that
19 was very helpful what you've shared with us, Mr. Wallach.
20 Now in the discussion that you just gave, you spoke of
21 one (1) -- one (1) variable. And I'm -- I'm going to
22 make the conversation perhaps a little more complex.

23 But let's stick with that one (1) variable
24 for a moment again, but let's stay with water. And I'll
25 suggest to you and -- and if you disagree you'll let me

1 know, but water's a factor -- the hydrology and water
2 flow, certainly some analysis has suggested that it has a
3 -- exhibits traits of auto-correlation or serial
4 correlation. Are you familiar with that, sir?

5 MR. JONATHAN WALLACH: I am.

6 MR. BYRON WILLIAMS: And so, for example,
7 if we're looking at a -- a utility such as Manitoba
8 Hydro, we don't just want to look at the risk or -- or we
9 don't just want to look at one (1) year, we -- we want to
10 -- we -- I'll suggest to you we want -- might want to
11 look at a -- a longer period of -- of time.

12 Would that be fair, sir?

13 MR. JONATHAN WALLACH: Yes, and you would
14 perhaps -- water flow is -- is -- is the most
15 complicated, probably, of the -- of the input variables
16 to model stochastically. I would suggest that -- that
17 what the Company does in its SPLASH modelling might be a
18 -- a reasonable approach in -- modified in that what you
19 would do with a Monte Carlo simulation of water flow is
20 you might pick from a distribution of -- of first-year
21 flows or from a distribution of historical flows over the
22 ninety-seven (97) or ninety-eight (98) years of data that
23 the Company has on water flows.

24 And once you've made that selection off
25 that distribution, then that defines the successive

1 years' flows based on the historical record, which is
2 essentially what the SPLASH model does, but it does it
3 for -- it -- it goes -- goes through every first year of
4 the historical record, rather than randomly selecting
5 from the distribution of that record.

6 MR. BYRON WILLIAMS: And just to make
7 sure I have your point, though, while you've indicated
8 that water flows are particularly complex within -- in
9 the context of our discussion, that same Monte Carlo-type
10 process could certainly be done to it, sir?

11 Is -- is that your point?

12 MR. JONATHAN WALLACH: Yes.

13 MR. BYRON WILLIAMS: Now, we've -- again,
14 we've been on one (1) -- one (1) variable. I'll suggest
15 to you as well that the -- the type of stochastic
16 approach you can -- could be used, employed on a family
17 of -- of variables as well, taking into account or giving
18 insight into the -- their -- their joint relationship.

19 MR. JONATHAN WALLACH: Yes, and that's
20 the -- the power of having a Monte Carlo simulation
21 model, so that you can multip -- I'm sorry, you can model
22 multiple stochastic variables and model their combined
23 effect on -- on the outcomes of your modelling.

24 MR. BYRON WILLIAMS: And the caution you
25 offer in terms of stress test is that by fixing a

1 variable, or fixing more than one (1) variable, you lose
2 insight into the probabilistic nature of the outcome that
3 flows from that type of stress test?

4 MR. JONATHAN WALLACH: Yes, although you
5 can certainly stress more than one (1) variable in -- in
6 a -- in a sensitivity analysis but, again, you're faced
7 with the situation of you're -- you don't have any
8 information as to the likelihood of that outcome and so
9 it's -- it's hard to interpret what that outcome
10 signifies.

11 MR. BYRON WILLIAMS: And just in the
12 third bullet on page 22, line 14, you make reference to
13 predefined tolerance limits and you express them as a
14 confidence level, or at least in one (1) of the examples.
15 And I wonder if you could just elaborate on that point
16 for a moment, sir.

17 MR. JONATHAN WALLACH: Well, let me just
18 point out that these are examples that I'm giving and
19 that would require, you know, considerable thought and --
20 and deliberation as to what --

21 MR. BYRON WILLIAMS: I'm not asking for
22 recommendations, just --

23 MR. JONATHAN WALLACH: -- sort of tol --
24 tolerance -- I understand. So the -- the examples I give
25 here are, for example, you can look at the -- at -- for

1 example, if you're -- what you're looking at is -- is
2 reduction to earnings, and that's your distribution of
3 outcomes, you can look at what your earnings loss might
4 be at the, you know, 95 percent probability level on your
5 -- on your distribution of outcomes and say, Well,
6 there's only a 5 percent probability that the earnings
7 loss would be worse than that. And whatever that dollar
8 amount is, if that's tolerable then you're within your --
9 your risk tolerance limits.

10 The alternative is to look at the worst
11 outcomes beyond some probability level. So, for example,
12 you could look at how bad your earnings loss could be, on
13 average, beyond 90 percent probability, and that would
14 give you a sense of -- of -- you would be measuring risk
15 there, in -- in essence, as based on the -- the average
16 of the 10 percent of your worst outcomes.

17 MR. BYRON WILLIAMS: And maybe we'll --
18 we'll try and give this some more right-in-our-face
19 examples, sir. I'm just going to ask you to turn to the
20 yellow -- yellow book of documents, page 1.

21 MR. JONATHAN WALLACH: I ha -- I have
22 that.

23 MR. BYRON WILLIAMS: What a coincidence.
24 And you'll -- you'll see before you, and I'm not going to
25 ask you to discuss it yet but I'll -- what is -- I'll

1 suggest to you Figure 6.1 from the evidence of Professors
2 Kubursi and Magee. Do you see that, sir?

3 MR. JONATHAN WALLACH: I -- I do.

4 MR. BYRON WILLIAMS: And I want to be
5 clear here. I'm not asking you to comment -- we're --
6 we're at a conceptual level here. I want to talk about
7 the -- how one might use this tool. So I'm not asking
8 you to comment on their data inputs or the reliability of
9 their probability distributions or the integrity of their
10 integrated model or the fact that this is one (1) year as
11 oppo -- opposed to a number of years. So leave that all
12 aside, sir.

13 And let's assume that this is a -- the
14 product of a Monte Carlo simulation where all factors are
15 allowed to move randomly. We've got a thousand
16 simulations. For the purposes of risk mitigation and --
17 and resource planning, could you elaborate further, sir,
18 using this figure on -- on how -- how you would use it as
19 a tool?

20 MR. JONATHAN WALLACH: Well, with the two
21 (2) examples I gave before, one could look at the -- the
22 earnings -- well, this is revenue. It's not really
23 earnings lost but, in this case, so you would look at how
24 low your revenues might be -- or your net revenues might
25 be at -- in -- in this case, it would be at the 90

1 percent confidence level because it's -- you're including
2 the -- the 5 percent tail at the upper end.

3 And, alternatively, you could look at, as
4 I was saying, the -- the outcomes that are at the lower
5 end of the tail beyond the 90 percent point. Well,
6 what's shown here is outside of the 90 percent confidence
7 interval, which would really be the outcomes that are --
8 that are beyond the -- the 95 percent probability, the 5
9 percent worst outcomes.

10 MR. BYRON WILLIAMS: And I'm -- I'm going
11 to follow up on -- it seems to me there's two (2) parts
12 to that response. I'm going to follow up on the second
13 part first, your focus on the -- the 5 percent tails. If
14 one captured the -- the -- when one looked at the tails,
15 I -- I'm looking for a bit more elaboration on how one
16 could use it.

17 But presumably you could look at -- at
18 what's out in the tail and assess what combination of
19 risk factors would result in a bad year.

20 That would be one (1) plausible insight
21 that you might get from this -- this kind of examination,
22 sir?

23 MR. JONATHAN WALLACH: Well, just looking
24 at this graph as it is, I -- what I -- all I could really
25 tell you is, for example, under the conditions that were

1 applied, the input parameters and -- and the modelling
2 that was done, that, for example, the average of your 5
3 percent worst outcomes would be something on the order of
4 a net revenue amount of, let's say, \$50 million, but it's
5 a pretty aggregated result.

6 And so that -- what -- all I can say is
7 that the combined effect of my stochastic distributions,
8 my stochastic modelling of -- of input variables results
9 in this distribution of outcomes. It would be a little
10 tougher to identify and say, Oh well, you know, it was
11 the distribution for variable 'X' that drove this
12 particular outcome.

13 MR. BYRON WILLIAMS: I guess what one
14 could do is if -- if one had results from an extreme
15 stress test, one could test that against such a -- a
16 figure as this and -- and gain insight into -- into --
17 let's say if the stress test wasn't on the -- on the
18 figure, that would give insight into the likelihood of
19 that stress test, correct?

20 MR. JONATHAN WALLACH: Generally
21 speaking, yes.

22 MR. BYRON WILLIAMS: Mr. Wallach, I -- I
23 thank you for your patience. I'll reflect on -- on that.

24 I think that, Mr. Chairman, I should be
25 done by the break, but I -- I may reserve the right just

1 to come back afterwards. So I may come back to you on
2 that, Mr. Wallach, but for right now that's that. Good
3 morning, Mr. Chernick.

4 MR. PAUL CHERNICK: Good morning.

5 MR. BYRON WILLIAMS: I will only be
6 referring to your evidence. And we've had discussions in
7 the past on -- on issues like price elasticity and
8 inverted rates, so I'm not going to revisit those.

9 MR. PAUL CHERNICK: I appreciate that and
10 I'm sure everyone else does as well.

11 MR. BYRON WILLIAMS: Where I want to take
12 you first of all is to page 13 of your evidence.

13 Do you have that, sir?

14 MR. PAUL CHERNICK: Yes.

15 MR. BYRON WILLIAMS: And you had a bit of
16 a discussion about substation costs this morning. Do you
17 recall that? If -- if not, don't worry about it, sir.

18 MR. PAUL CHERNICK: Okay.

19 MR. BYRON WILLIAMS: I -- I'll jump right
20 to the point.

21 MR. PAUL CHERNICK: Thank you.

22 MR. BYRON WILLIAMS: Page 13, lines 11
23 through 14, you talk a bit about -- bit about substations
24 peaking and the -- and suggesting that it's driven by
25 non-residential loads. Do you see that, sir?

1 MR. PAUL CHERNICK: Yes, a group of
2 substations.

3 MR. BYRON WILLIAMS: And I wonder if you
4 could just elaborate slightly on -- on your comments in
5 this area.

6 MR. PAUL CHERNICK: Well, in general, if
7 you see a substation peaking early in the morning, like
8 seven o'clock, that's generally being driven by either
9 residential load because that's when people are up and
10 taking their showers and -- and making breakfast and
11 maybe they're -- the -- you know, the radio's on and the
12 teenagers are blow-drying their hair and -- in which case
13 the shower would probably be on for a long time. And --
14 and it could also be driven by an industrial load because
15 many industries start early in the morning.

16 If, on the other hand, you see peaks later
17 in the day, let's say ten or eleven o'clock, well that's
18 not the breakfast rush. The people who have left the
19 house for the day have -- mostly left. They've gone off
20 to work, they've gone off to school. It's probably not
21 being driven by the start-up of the industrial equipment.

22 It's very likely to be a commercial --
23 commercial loads of computers and photocopiers and -- and
24 the -- and perhaps the -- the lunch places starting
25 preparation for -- for the day and so on. And obviously

1 that can vary, you know, for individual situations but
2 it's pretty un -- unusual to see residential peaks in the
3 late morning like that.

4 MR. BYRON WILLIAMS: Okay. Thank you.
5 I'm going to have a brief discussion with you about DSM.
6 And that portion of your evidence starts at page 42, sir.
7 So if you could turn there.

8 MR. PAUL CHERNICK: Thank you. I have
9 it.

10 MR. BYRON WILLIAMS: And I'm not
11 referring you to a specific reference on any of these
12 pages at this point in time. This morning you spoke on a
13 number of occasions about the work of the external
14 evaluator, Mr. Dunsky, in terms of Manitoba Hydro program
15 design.

16 You recall that, sir?

17 MR. PAUL CHERNICK: Yes.

18 MR. BYRON WILLIAMS: And I wonder if you
19 can comment from the perspective of best practices in
20 demand-side management, in terms of the importance and
21 the role of external evaluators. And we're going to
22 start with design, but then I'm going to elaborate on
23 that in --

24 MR. PAUL CHERNICK: M-hm.

25 MR. BYRON WILLIAMS: -- in subsequent

1 questions -- questioning. Okay, sir?

2 MR. PAUL CHERNICK: Well, in terms of --
3 of program design and -- and I think the related issue of
4 process evaluation, which is not checking whether the
5 numbers worked out, but rather how well the process
6 works, it's very important to have independent eyes on
7 the -- on -- on any program administrator's program. And
8 that's true both for utility driven programs and for
9 those that are being directed by state agencies or -- or
10 contractors.

11 And the reason for that is that the --
12 it's hard for anybody to evaluate their own work. And
13 especially when you're thinking about the way you do your
14 work, it may seem to you that this is the way that it has
15 to be done; this is the obvious way to do it; how -- how
16 could you possibly do it any better than this? But when
17 you bring in somebody from outside who's looked at how
18 other people do similar things, whether it's how you
19 organize your office workflow, or how you run a -- a
20 conservation program, it's very helpful to have that kind
21 of review to say, Well, you do this, but you don't do
22 these other things; or, You -- you address people in
23 various scattered ways, and you never sit them down and
24 go through all of the things that they could do.

25 And that -- that's the kind of critique

1 that an outside reviewer could apply in terms of how you
2 manage your office staff, or how you manage your
3 conservation program and your relationship with -- with
4 potential participants.

5 So it's -- it's very helpful to have
6 people come in from outside to review everything from
7 sort of the high level concept of what's in a program to
8 how the programs interact with one another, how customers
9 come into the utility portfolio and how they're handled,
10 and whether they have to go through different processes
11 for different programs, or whether the process is very
12 smooth and transparent for them, and then whether they
13 are places along the line where participants are getting
14 lost from the program, or opportunities are being lost
15 because the program isn't flexible enough or responsive
16 enough to -- to capture them.

17 MR. BYRON WILLIAMS: And let's just stay
18 with that idea of having an independent eye or someone
19 from the outside. And I -- I wonder if you can comment
20 in terms of the utility of employing that same concept.
21 In terms of the assumptions that a -- a utility makes, in
22 terms of its lifetime and unit savings from various
23 demand-side projects.

24 MR. PAUL CHERNICK: You -- you mean in
25 terms of the kilowatt hours saved per lighting fixture

1 replaced and -- and that kind of detail?

2 MR. BYRON WILLIAMS: Exactly.

3 MR. PAUL CHERNICK: There are two (2) --
4 there's -- there's been a lot of work over the last
5 twenty/twenty-five (20/25) years on estimating savings.
6 There have been very sophisticated studies involving
7 metering of end-uses and tracking exactly how various
8 pieces of equipment operate in practice, and you can
9 learn from what other utilities have -- have learned from
10 -- from their studies along those lines.

11 And one (1) of the things that's usually
12 done on an independent basis, and it's not by somebody
13 hired by the -- the utility or administrator, but a -- an
14 outside third party, well, who may be paid by the
15 utility, but is being selected and directed largely by
16 some independent group -- that may be a -- a group of
17 consumer stakeholders, the equivalent of your
18 organization and -- and of RCM and the var -- industrial
19 groups and so on -- might all have a hand in approving
20 the -- the outside contractor, so that there's some sense
21 that there's real independence. Or maybe someone
22 selected by the Board, or the Board staff, or by a
23 government agency that's responsible for overlooking --
24 overseeing the -- the process.

25 And then you have both these process

1 evaluations, which go through and talk to participants
2 and people who didn't participate, find out why they
3 didn't participate; people who started out in the
4 programs and then dropped out and never did anything, or
5 did very little, and so on. And you also have the impact
6 evaluation, which looks at everything from billing
7 records to the assumptions about the hours of use of
8 lighting, how those are derived, how those are -- are
9 mapped from the information recorded in the field. It's
10 -- this is a -- a corner store which -- they say they're
11 open sixteen (16) hours a day, six (6) days a week, and
12 twelve (12) hours on Sunday, and therefore we make the
13 following assumptions about their lighting.

14 Work through that whole process and see
15 whether the calculations that are being done, the
16 assumptions that are -- are being made about the
17 effectiveness of the measures, are reasonable.

18 MR. BYRON WILLIAMS: Going to the -- the
19 big picture, in terms of -- and I -- I have your point on
20 process in terms of the -- the inputs and the --

21 MR. PAUL CHERNICK: Well, see, it's --
22 it's called "impact evaluation."

23 MR. BYRON WILLIAMS: Impact evaluation.

24 MR. PAUL CHERNICK: Ultimately, we don't
25 -- we don't really care about the input so long as the --

1 MR. BYRON WILLIAMS: The results.

2 MR. PAUL CHERNICK: -- the estimates
3 coming out are accurate, but those inputs, as -- as
4 you've put them, things like number of hours of use or
5 kilowatt hours saved per -- per compact fluorescent, and
6 -- and that sort of thing, those -- obviously, if you get
7 those wrong, you're going to get the wrong answer in
8 terms of the -- of the impact, in terms of the gigawatt
9 hours and the megawatts.

10 MR. BYRON WILLIAMS: And going to the
11 utility of an independent outcome assessment, I wonder if
12 you can elaborate on -- on why it matters.

13 MR. PAUL CHERNICK: Well, one (1) reason
14 it matters is that nobody believes it when you review it
15 yourself. I mean, you may be a very honest person, but
16 your self-assessments may not necessarily jibe with what
17 other people are thinking, and they -- they may not be
18 the best source for you to improve your own performance.

19 And large organizations, utilities among
20 them, sometimes develop a bit of group-think, in which
21 everyone believes something because everybody else around
22 them believes it. and it's very helpful to have somebody
23 come in from outside and be in a position to question the
24 -- the assumptions, and to look at what other people
25 believe and ask, you know, to the extent that your

1 beliefs are different than what others believe, whether
2 there's a reason for that to be true, whether you have a
3 better estimate, whether your conditions are different,
4 or whether, perhaps, you're overstating or understating
5 some important factor.

6 MR. BYRON WILLIAMS: Thank you for that,
7 Mr. Chernick. In terms of your discussion of Manitoba
8 Hydro DSM programming, I hope I was taking accurate
9 notes, Do you recall suggesting something to the effect,
10 in terms of looking forward at Hydro's DSM programming
11 that they're spending less and aiming lower in terms of
12 their targets?

13 MR. PAUL CHERNICK: Oh, yes. That was
14 true both in the 2009 and -- and now in the 2010 plan.

15 MR. BYRON WILLIAMS: And also a statement
16 to the effect that they -- suggesting that they may not
17 have demonstrated a commitment to maximizing benefit for
18 customers, that would be consistent with your
19 recollection?

20 MR. PAUL CHERNICK: Yes, I think that was
21 in the context of their -- their responses in rebuttal
22 indicated a sort of a complacency with their approach and
23 a lack of concern about issues raised by their own
24 independent review, and by comparison to -- to other
25 utilities.

1 MR. BYRON WILLIAMS: Now, I want to
2 direct you in your evidence to -- to two (2) specific
3 lines. And then I'll -- I'll have a followup. So, first
4 of all, on page 46, lines 20 and 21.

5 And, Mr. Chernick, I'll ask you to confirm
6 for the purposes of context without elaborating yet, you
7 say that Hydro may req -- require more encouragement from
8 the Board if it is ever to become a leader in energy
9 efficiency.

10 That's a statement that's in your
11 evidence, sir?

12 MR. PAUL CHERNICK: Yes.

13 MR. BYRON WILLIAMS: And turning to page
14 9 -- 49, lines 14 to 16, you make a recommendation that
15 the Board should require Hydro to increase its efficiency
16 investments and achievements.

17 You made such a recommendation, sir?

18 MR. PAUL CHERNICK: Yes.

19 MR. BYRON WILLIAMS: And I don't know how
20 much Mr. Gange has told you about our -- our regulatory
21 environment, and I'm certainly not asking for a legal
22 opinion, but are you aware that the -- whether or not the
23 Public Utilities Board, in terms of its regulatory
24 environment, is a rates for service regulator, it sets
25 rates?

1 MR. PAUL CHERNICK: Yes, that's its
2 primary responsibility.

3 MR. BYRON WILLIAMS: And so my -- my
4 question, sir, in terms of requiring Hydro to spend more,
5 or encouraging them to spend more --

6 MR. PAUL CHERNICK: M-hm.

7 MR. BYRON WILLIAMS: -- I'll suggest to
8 you, and you don't have to accept this suggestion, that
9 there may be some limits in what the Board can require
10 them to do. So what I'm looking for my clients from you,
11 is some advice on -- on how we can -- some innovative
12 ways that -- that you've seen in -- in the years of
13 regulators encouraging utilities to -- to do what -- what
14 you suggest must be done?

15 MR. PAUL CHERNICK: One (1) lever that
16 regulators have is obviously the purse strings. And
17 utilities have -- have certainly been penalized in the
18 past in terms of say their re -- allowed return based
19 upon poor performance. With a provincial utility you
20 wind up with -- in a peculiar kind of position where you
21 -- you have to ask, Well, who are you penalizing if you
22 reduce the return? And -- so that -- it's -- it's a more
23 complicated situation.

24 On the other hand, the -- the Utility does
25 report to somebody, to -- to a board, ultimately to the

1 government, which may take particular notice if this
2 Board were to impose some kind of financial penalty, for
3 example, not allowing some portion of -- of recovery of
4 management compensation on the grounds that the company's
5 not being managed very well. It might be a very small
6 amount of money but might make headlines and might cause
7 some rethinking about whether it's -- it would be a good
8 idea to address the issues the Board's raising.

9 Another approach which has been used in --
10 by regulators is to issue an opinion that is very
11 specific about the deficiencies of the Utility's
12 behaviour in some particular way; and -- and this is
13 included in energy -- energy efficiency in some cases.

14 And I -- I'm thinking particular about a
15 situation in the mid 1980's with the Massachuset
16 Department of Public Utilities and Boston-Edison, where
17 Boston-Edison had basically been refusing to do any
18 significant amount of energy efficiency until it was
19 satisfied with cost recovery and -- and various other
20 items. The Utility was sort of in a snit about not
21 having recovered all of its cost for the failed nuclear
22 project.

23 And their Department of Public Utilities
24 wrote an order highly critical of the -- of the Utility,
25 imposed a small financial penalty -- a significant

1 financial penalty, but -- but nothing that -- that was
2 gonna drive the company to its knees. And in the order
3 said, And we will be forwarding copies of this report to
4 each of the members of the Board of Directors of Boston-
5 Edison to try and get past the management that was
6 interfering with the process, and move the company in a
7 more progressive direction.

8 I don't know whether it was the financial
9 penalty or the -- the unusual step of the department
10 mailing out its -- its order to the board members, but
11 most of top management of Boston-Edison was gone within a
12 year or so, and the company's attitude towards energy
13 efficiency, towards DSM, improved dramatically over the
14 next couple of years.

15 MR. BYRON WILLIAMS: Through your
16 counsel, Mr. Chernick, on that specific point, Mr. Gange,
17 I wonder if you're -- if you would be prepared to
18 undertake to -- to just provide that -- that specific
19 board, even the -- the number or the identification, or
20 alternatively the order it -- itself.

21 MR. PAUL CHERNICK: Actually, I -- I do
22 have the order since I am a packrat. I have documents in
23 my office that other people have a hard time finding.
24 And if you give me a minute, I may be able to find you
25 the -- the docket number.

1 MR. BYRON WILLIAMS: We -- we could
2 perhaps do that over the --

3 MR. PAUL CHERNICK: Okay, fine.

4 MR. BYRON WILLIAMS: -- the lunchbreak
5 would be -- would be fine.

6 Lastly, Mr. Chernick, subject to a review
7 of my notes over the break, directing you attention to 48
8 of your -- page 48 of your evidence, lines 4 to 7, just
9 so you have it there in front of you.

10 First of all, Mr. Chernick, without asking
11 you to elaborate, one (1) conclusion in your evidence is
12 that the existing cost of service methodology of Manitoba
13 Hydro overstates the costs of serving residential
14 customers in a -- in a number of specific ways.

15 Would that be fair?

16 MR. PAUL CHERNICK: Yes.

17 MR. BYRON WILLIAMS: And your
18 recommendation to the Board is that -- that those issues
19 should be corrected. And that until they -- a new cost
20 of service methodology is adopted the Board should not
21 shift cost responsibility onto -- onto residential
22 customers, correct?

23 MR. PAUL CHERNICK: Yes.

24 MR. BYRON WILLIAMS: Okay. Mr. -- Mr.
25 Chair, if -- subject to my review of my notes, those are

1 my questions.

2 THE CHAIRPERSON: Very good, Mr.
3 Williams. We seem to be in relatively good shape from a
4 time perspective and we've got some matters to discuss,
5 so we're gonna come back at 1:15. We'll see you back
6 then.

7

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

9 --- Upon resuming at 1:17 p.m.

10

11 THE CHAIRPERSON: Okay, folks. We'll get
12 going now. Just before we begin, Ms. Ramage, if you
13 wouldn't mind -- before we resume with Mr. Wallach and
14 Mr. Chernick, the Board would appreciate Manitoba Hydro's
15 position on what date this Board will be receiving
16 Manitoba Hydro's responses to all outstanding
17 undertakings. Perhaps Manitoba Hydro could provide its
18 list of undertakings -- undertakings given, exhibit filed
19 in response, as well as a summary of the outstanding
20 undertakings.

21

22 --- UNDERTAKING NO. 167: Manitoba Hydro to indicate
23 its position on the date the
24 Board will be receiving
25 Manitoba Hydro's responses to

1 all outstanding undertakings,
2 and provide its list of
3 undertakings given, exhibit
4 filed in response, as well as
5 a summary of the outstanding
6 undertakings
7

8 THE CHAIRPERSON: Our next request is --
9 is more specific and we would like to know when Manitoba
10 Hydro will file all the detailed scenarios requested in
11 the Board's pre-asked questions. The pre-asked
12 questions, seeking twenty (20) year IFS -- IFFs, must
13 reflect the updated capital cost of generation --
14 generating stations and transmission, export revenues,
15 foreign exchange, for -- forecast changes, if any, et
16 cetera, for not only the preferred but also alternative
17 development options. We're also hoping that the
18 alternative IFFs, along with the baseline, would include
19 Manitoba Hydro's assumptions.

20 When, Ms. Ramage, if you could answer now,
21 does Manitoba Hydro expect to file the material?

22 MS. PATTI RAMAGE: Yes, Mr. Chairman.
23 I'm just pulling up a -- trying to pull up an email that
24 -- to make sure we're all working from the same page.
25 There is a twenty (20) year IFF that will be going to

1 audit committee, which I believe is June 7th. I don't
2 want to be -- I think it's next week, but we're -- let's
3 say June 7th for the purpose of discussion and if
4 approved by audit committee it would go to our board,
5 which is June 23rd. So that would be the target date for
6 those -- for the IFF that's been produced.

7 Now, can I -- I -- I'd have to review the
8 transcript to see exactly what the expectation is in
9 terms of what's in that IFF. I'm trying to find an email
10 I sent to Mr. Peters. And that is that it -- it will
11 incorporate the new capital cost estimate.

12 The other changes to the forecast, for
13 example, domestic revenues, would be reflected in the
14 fall IFF. So that's -- that's what going to audit
15 committee.

16 THE CHAIRPERSON: Ms. Ramage, as you
17 know, this hearing, at least the public part of it, is
18 probably presumably going to be wrapping up in July.
19 So --

20 MS. PATTI RAMAGE: M-hm.

21 THE CHAIRPERSON: -- I think it's
22 probably best that Manitoba Hydro understand that in the
23 absence of the new comprehensive twenty (20) year IFFs
24 based not only on the baseline preferred, but also the
25 alternative development plans, the Board may feel it

1 necessary to table it's own version with assumptions
2 listed.

3

4 --- UNDERTAKING NO. 168: Manitoba Hydro to indicate
5 when it will file all the
6 detailed scenarios requested
7 in the Board's pre-asked
8 questions

9

10 THE CHAIRPERSON: Ms. Ramage, our next
11 request goes back to the issue of events that have
12 already happened. We're wondering when we would learn of
13 Manitoba Hydro's financial statements for its fiscal year
14 2010 and '11. Can they be filed now either -- I realize
15 they haven't been tabled in the legislature, but it can
16 be filed in some form now?

17 MS. PATTI RAMAGE: Again, I understand
18 these are going to audit committee. And -- and then they
19 would go on to the board. If there is a -- if there's a
20 question of urgency in terms of June 23rd, I think the
21 best way to go, if the Board could indicate that, and
22 then we would -- we would have to take that back to Mr.
23 Brennan and have him communicate with the powers that be
24 to see if that process can be, if we can accommodate
25 that, an earlier release to the Board in confidence.

1 THE CHAIRPERSON: Yes, that's happened in
2 the past and I would definitely put a light of urgency to
3 it.

4
5 --- UNDERTAKING NO. 169: Manitoba Hydro to indicate
6 when the Board will learn of
7 Manitoba Hydro's financial
8 statements for fiscal year
9 2010/'11 and advise if an
10 earlier release of these in
11 confidence can be made to the
12 Board

13
14 THE CHAIRPERSON: Ms. Ramage, going
15 further, in light of Manitoba Hydro's recent
16 announcements we would like Manitoba Hydro to file
17 unredacted copies of all export contracts with this Board
18 on a confidential basis if necessary and a redacted
19 summary for the public record.

20 We'd also like to know, I know you
21 probably cannot answer that right now, but when can we
22 expect them to be filed?

23 MS. PATTI RAMAGE: That's something I'd
24 have to take under advisement. I -- I do understand that
25 Mr. Cormie is -- has been working on -- or has -- will be

1 working on, not has, some form of a redaction with the
2 counterparties at some point. And I'm not sure the
3 status of that and who that is intended for but that --
4 that would be part of that kind of a process.

5 But, ultimately, I would have to get
6 instructions in terms of what's going to happen. The
7 parties should be aware that those contracts are under
8 terms of confidentiality with counterparties. So under
9 any circumstance, counterparty consent has to be obtained
10 to release them to anybody.

11 MR. ROBERT MAYER: Ms. Ramage, the -- I
12 read a decision by one (1) of the public utilities
13 commissions in the states that dealt with two (2) of the
14 contracts already and have approved them.

15 THE CHAIRPERSON: In any case, Ms.
16 Ramage, we would like you to look into that particular
17 matter and give us a complete answer because we are
18 expecting to receive those contracts so that we can
19 assess them within --

20 MS. PATTI RAMAGE: If I could just --

21 THE CHAIRPERSON: -- our needs in this
22 particular matter.

23 MS. PATTI RAMAGE: Just replying to Mr.
24 Mayer's comment. I think what he's referring to is the
25 Minnesto -- Minnesota regulator's approval of last year's

1 NSP agreement. It's not the -- the recently announced
2 agreements.

3 THE CHAIRPERSON: I believe you are
4 correct. I've read the same one. But, in any case, I've
5 laid out what the Board's expectations are.

6
7 --- UNDERTAKING NO. 170: Manitoba Hydro to file
8 unredacted copies of all
9 export contracts with the
10 Board, on a confidential
11 basis if necessary, and a
12 redacted summary for the
13 public record, and advise
14 when these will be filed
15

16 THE CHAIRPERSON: The other thing is --
17 with respect to these questions, and I have one (1) more,
18 we'd really like to get a response early next week and
19 not let it go into the week following. So the sooner the
20 better I think would be best.

21 The final question I have right now is,
22 Ms. Ramage, the Board has been expecting for some time
23 now a filing from Manitoba Hydro in respect to Diesel
24 Order number 134/10. The questions are:

25 Has Manitoba Hydro finalized the matters

1 with INAC?

2 MS. PATTI RAMAGE: I'm not sure when you
3 say "the matters," but if it's -- if we're referring to -
4 - well, I guess there's a couple of things. And we've
5 kept -- attempted to keep the Board advisors or
6 directors, Mr. Singh, apprised of the status of this.
7 But Manitoba Hydro understands that the agreements have
8 been signed. We have still not been provided true
9 copies. We have been requesting them and there is also a
10 question of the -- I think there was a Board expectation
11 of payments to be made by INAC and Manitoba Hydro is --
12 has -- has been making and is attempting to get a final
13 position from INAC on exactly what they're doing so that
14 we can take next steps.

15 MR. ROBERT MAYER: Ms. Ramage, if I
16 recall correctly the -- there was outstanding capital
17 issues from 2004 to date, I -- I think those are the
18 proper dates, and some of it had to do with at least one
19 (1) spill cleanup and the position that INAC was taking
20 on that.

21 And it -- my -- it was my understanding
22 that Hydro's position was that if they couldn't convince
23 INAC of the righteousness of Hydro's position you may be
24 coming back to the Board to adjust rates to build back in
25 cost recovery for those -- for those spillages and the

1 other capital items that you weren't able to resolve with
2 INAC.

3 So, I mean, if INAC ain't payin' up and we
4 have to come back because we can't issue final -- we
5 can't -- we're dealing with interim rates now and have
6 been dealing with interim rates since long before the
7 Chair found his way onto -- onto this seat. And at some
8 point in time we have to bring some kind of conclusion to
9 the issue.

10 I recognize that the fact that we were
11 promised these documents when Mr. Anderson still used to
12 visit us with some regularity and said they were signed
13 on that day, November, whatever day it was, and we
14 haven't seen them. We've seen some of the communication.
15 I personally spoke to Mr. Anderson at -- at Mountain
16 Equipment Co-op. He said, Oh yeah, we've got all the
17 documents, we'll send them to you. That was quite a
18 while ago.

19 In any event, either we -- there should be
20 an application to make the orders permanent or to vary
21 the interim orders respecting -- respecting rates. But
22 we -- we ha -- the Board had really hoped that this
23 decision would at least wake up some of the parties, one
24 being INAC, to where we thought we were going but as --
25 as long as the thing remains sol -- stalled, everybody

1 can just forget worrying about the issue except the Board
2 and Manitoba Hydro who's now watching its rates decline
3 for general service in the diesel communities.

4 If -- if you've got a better solution than
5 we have I don't know -- we'd be pleased to hear it.

6 MS. PATTI RAMAGE: I think in general
7 terms we're working on the -- with the same concerns and
8 on the same track. And -- and I think what I was trying
9 to communicate is that Manitoba Hydro is -- has -- has
10 issued correspondence to INAC saying is -- essentially,
11 is this it? Because if it is it's time to make a
12 decision.

13 THE CHAIRPERSON: So perhaps before we
14 get out of next week, if we could get an update. There
15 was a number of matters in our last order to do with
16 diesel that went beyond direction and also talked to
17 intent and recommendations and things of that particular
18 nature but it would certainly be nice to finalize the
19 rates and allow the communities and everyone else to move
20 -- move on.

21
22 --- UNDERTAKING NO. 171: Manitoba Hydro to advise the
23 Board if the matters have
24 been finalized with INAC in
25 regards to Diesel Order

1 about before the lunch break was the Department of Public
2 Utilities docket number 85-271.

3 THE CHAIRPERSON: Does that do you, Mr.
4 Williams?

5 MR. BYRON WILLIAMS: We're -- it was
6 Massachusetts, sir?

7 MR. PAUL CHERNICK: Yes.

8 MR. BYRON WILLIAMS: Okay. I -- that
9 certainly satisfies me with that additional insight.

10 THE CHAIRPERSON: Thank you. We'll move
11 on now to MIPUG and Mr. Hacault. Mr. Hacault, welcome
12 back.

13 MR. ANTOINE HACAULT: Thank you, Mr.
14 Chairman, Vice-Chair. Hello all.

15 And that'll be about it because we were
16 satisfied we had the information through IRs, et cetera.
17 I don't -- and the questions that were asked earlier. I
18 don't believe I need to ask any further questions. Thank
19 you.

20 THE CHAIRPERSON: Thank you. Ms.
21 Pambrun, do you have any?

22 MS. DENISE PAMBRUN: No questions, Mr.
23 Chairman.

24 THE CHAIRPERSON: Thank you. Ms.
25 Ramage...?

1 MS. PATTI RAMAGE: Well, I wasn't
2 expecting to be back on the mic quite that quick.

3 THE CHAIRPERSON: We're literally
4 zipping along.

5

6 CROSS-EXAMINATION BY MS. PATTI RAMAGE:

7 MS. PATTI RAMAGE: Yes. Yes, I just -- I
8 am going to be very brief. Like Mr. Hacault, we --
9 Manitoba Hydro believes most of its questions have --
10 have been dealt with in the IR process or throughout the
11 course of this hearing.

12 But there was two (2) things that -- that
13 struck us this morning in hearing the evidence. And one
14 (1) was, Mr. Chernick, if I heard correctly, my notes
15 indicate that you -- you said this morning that Manitoba
16 Hydro claims that targets are not appropriate.

17 Was that your evidence? Did I -- are my
18 notes correct?

19 MR. PAUL CHERNICK: Yes, that -- that was
20 my reading of -- of that point in Manitoba Hydro's
21 rebuttal. If I've mischaracterized that or
22 overcharacterized that or if there -- that was limited to
23 some particular kind of target, then my apologies. I
24 didn't mean to -- to say anything other than to summarize
25 the rebuttal on that point.

1 MS. PATTI RAMAGE: Maybe if I could get
2 you to turn to page 48 of Manitoba -- of -- of Manitoba
3 Hydro's rebuttal evidence.

4 MR. PAUL CHERNICK: Yes.

5 MS. PATTI RAMAGE: And maybe -- and if --
6 I'll -- I'll read it and if you could just confirm that
7 I've read it correctly:

8 "Manitoba Hydro agrees with
9 establishing aggressive energy
10 conservation targets. However, the
11 Corporation believes that it is more
12 appropriate to base the targets on
13 identifiable and realizable energy
14 efficient potential rather than basing
15 targets on arbitrary percentages."

16 Would you agree that that doesn't say
17 Manitoba Hydro isn't going to be -- is -- is saying
18 targets are inappropriate, rather it's that it -- it
19 wants to establish targets on identify -- on identifiable
20 and realizable energy efficient potential. So there --
21 there is no issue --

22 MR. PAUL CHERNICK: I -- you're --

23 MS. PATTI RAMAGE: -- with Manitoba
24 Hydro?

25 MR. PAUL CHERNICK: -- you're right.

1 That -- the first part of the sentence that you referred
2 to, I -- I think doesn't really very well characterize
3 that section of Hydro's rebuttal and I'm sorry about
4 that.

5 MS. PATTI RAMAGE: Okay. And then in a -
6 - another note I have is that you said "Manitoba Hydro
7 claims the leading edge utilities listed in Tables 2 and
8 3," and that would be on -- that would be the tables on
9 page 50, if -- that -- anyway:

10 "Manitoba Hydro claims the leading edge
11 utilities listed in Tables 2 and 3
12 don't offer comprehensive programs."

13 Do I have that right?

14 MR. PAUL CHERNICK: And that was my
15 reading of that discussion, yes. That -- for example,
16 that Efficiency Vermont does not offer any services for
17 residential building envelope measures or water-heating
18 conservation.

19 MS. PATTI RAMAGE: If I could get you to
20 turn back a page, to page 49 of Manitoba Hydro's
21 evidence, and, again, I'll -- I'll read it into the
22 record to save -- :

23 "To ensure Manitoba Hydro's approach to
24 setting targets is aligned with
25 available opportunities, the

1 Corporation monitors leading-edge
2 utilities and the programs being
3 offered by these utilities throughout
4 North America."

5 Would you agree with me that the idea of a
6 leading-edge utility would be that it -- that it has
7 comprehensive programs and in fact we -- Manitoba Hydro
8 at line 29 refers to these programs as -- in the
9 comparison, its own programs as being comprehensive and
10 comparable to those?

11 MR. PAUL CHERNICK: I read -- I read that
12 discussion as contrasting Manitoba Hydro's comprehensive
13 energy conservation effort with the sometimes, according
14 to these tables, less comprehensive efforts of the other
15 utilities. Given the number of "no" entries -- excuse me
16 -- in the -- in the tables, it doesn't seem like they're
17 being clar -- presented as being comprehensive. But if -
18 - if Hydro meant that these -- that despite their
19 shortcomings these programs still met Hydro's standard
20 for comprehensive, I -- I'm not arguing about Hydro's
21 representation that way.

22 MS. PATTI RAMAGE: I -- that's Manitoba
23 Hydro's questions. I thank you for that.

24 THE CHAIRPERSON: Thank you, Ms. Ramage.
25 Mr. Peters...?

1 MR. BOB PETERS: Thank you, sir.

2

3 CROSS-EXAMINATION BY MR. BOB PETERS:

4 MR. BOB PETERS: Mr. Wallach, while Mr.
5 Chernick is capturing his voice again, let's -- let's
6 start. In your professional career, you have acted for
7 public utilities?

8 MR. JONATHAN WALLACH: I'm sorry, what
9 was the question?

10 MR. BOB PETERS: Have you acted for
11 public utilities?

12 MR. JONATHAN WALLACH: Acted for? You
13 mean have I consulted to public utilities?

14 MR. BOB PETERS: Yes.

15 MR. JONATHAN WALLACH: I have consulted
16 to -- I have worked on one (1) project with an investor-
17 owned utility.

18 MR. BOB PETERS: And, in working on that
19 project with the investor-owned utility, you would have
20 been privy to confidential information?

21 MR. JONATHAN WALLACH: Certainly, but in
22 that case I don't believe there was any -- any issue as
23 to access to confidential material.

24 MR. BOB PETERS: Well, hopefully not, if
25 they were your client, but --

1 MR. JONATHAN WALLACH: Well, I'm just
2 saying that there was no issue of confidentiality in
3 terms of the information that was presented to the
4 public.

5 MR. BOB PETERS: No, and I wasn't
6 suggesting there was, sir, but what I -- what I was
7 trying to get at was -- and where I'm going is that you
8 will have come to have seen from within the utility's
9 walls that there is certain information that a utility
10 wants to keep confidential. Would you agree with that?

11 MR. JONATHAN WALLACH: Oh, certainly.
12 I've certainly seen that working for any of my clients.

13 MR. BOB PETERS: And the reasons that
14 information they would want to keep confidential could
15 include putting the utility at a competitive disadvantage
16 in the marketplace. Is that possible?

17 MR. JONATHAN WALLACH: There -- there
18 have been instances, yes, of that issue. It can either
19 be a matter of commercial sensitivity. Leave it at that.
20 Yes, there's -- there can be issues of commercial
21 sensitivity.

22 MR. PAUL CHERNICK: Would you like me to
23 -- to jump in as I have something to add or leave Mr.
24 Wallach on his own here?

25 MR. BOB PETERS: I think you can leave

1 him on his own. He's doing pretty well, I think, but --
2 but certainly, I'll come back and I'll certainly --
3 certainly give you an opportunity now that you have
4 recovered your voice to -- to join in.

5 MR. JONATHAN WALLACH: I appreciate the
6 vote of confidence.

7 MR. BOB PETERS: Mr. Wallach, in -- in --
8 when you say "commercially sensitive," you're meaning
9 that the utility possesses information that if it was in
10 the general public domain it may put them at a commercial
11 disadvantage in their business?

12 MR. JONATHAN WALLACH: I was thinking
13 more in terms of it would reveal information --
14 commercially sensitive -- information that is
15 commercially sensitive to a third party, for example, the
16 terms of a power purchase contract.

17 MR. BOB PETERS: Well, let's use your
18 example then. And you know in these proceedings that
19 Manitoba Hydro has -- has an abundance of power purchase
20 agreements on the go right now?

21 MR. JONATHAN WALLACH: Yes, I -- I'm
22 aware of that.

23 MR. BOB PETERS: And is it your
24 expectation that each of the counterparties with whom
25 Manitoba Hydro is dealing will know with certainty what

1 the arrangement is between Manitoba Hydro and the other
2 counterparties?

3 MR. JONATHAN WALLACH: And the other
4 counterparties with other contracts?

5 MR. BOB PETERS: No, let -- let me --

6 MR. JONATHAN WALLACH: I'm sorry, I don't
7 think I understand.

8 MR. BOB PETERS: Let me rephrase my
9 question.

10 MR. JONATHAN WALLACH: Sure.

11 MR. BOB PETERS: And I was trying to keep
12 specific names out of my question but -- but I'll -- let
13 me do that. You're aware Manitoba Hydro has a
14 conditional agreement with Minnesota Power?

15 MR. JONATHAN WALLACH: I -- I am aware of
16 that, yes.

17 MR. BOB PETERS: And you're aware they
18 have a conditional agreement with Wisconsin Public
19 Service?

20 MR. JONATHAN WALLACH: I am aware of it,
21 yes.

22 MR. BOB PETERS: It may be a little
23 different than what was talked about earlier but there's
24 something conditional be -- as between Manitoba Hydro and
25 Wisconsin Public Service now?

1 MR. JONATHAN WALLACH: My understanding
2 from the public release is that there -- there are two
3 (2) agreements out there.

4 MR. BOB PETERS: All right. Put
5 directly, do you think that Minnesota Power knows all the
6 terms of the deal between Wisconsin Public Service and
7 Manitoba Hydro?

8 MR. JONATHAN WALLACH: I wouldn't imagine
9 they know any of the terms but I couldn't say for sure.

10 MR. BOB PETERS: No, you wouldn't expect
11 them to though, would you?

12 MR. JONATHAN WALLACH: No, I would not.

13 MR. BOB PETERS: All right. So when we
14 come back to one (1) of your concerns where much of the
15 information in -- in this filing was -- what was the
16 wording? I think it was -- well, it was the impenetrable
17 veil of secrecy I think is what I -- I'm not sure I've
18 said that right but I remember reading something to that
19 effect. It might have been your evidence, sir.

20 MR. JONATHAN WALLACH: Yes, it was.

21 MR. BOB PETERS: There may be some
22 commercial reasons why such a veil has to be put on?

23 MR. JONATHAN WALLACH: Well, you -- there
24 may be reasons why you restrict access to certain parties
25 and you don't allow access to parties that might have a

1 commercial interest in that information. But there are
2 certainly other parties, such as Intervenors, who do not
3 have a commercial -- direct commercial access and should
4 have access to that information in order to do -- to do
5 their jobs.

6 MR. BOB PETERS: All right. Let's just
7 explore that a little bit further now. Let's suppose
8 that you hop -- hop off of the airplane in Winnipeg. And
9 then you get back on the airplane. You're in Minneapolis
10 tomorrow, and you have a client in Minneapolis, Minnesota
11 in the utility industry who's thinking of doing a deal
12 with Manitoba Hydro. And they're wondering if a certain
13 price of power as offered up the Manitoba utility is a
14 good deal or a bad deal and they want you to help them
15 work through that.

16 You could be in a position, could you not,
17 if you had been exposed to the detailed information of
18 those agreements between Manitoba Hydro and Minnesota
19 Power, in a position where you would know with certainty
20 what somebody else was buying from Manitoba Hydro?

21 MR. JONATHAN WALLACH: Well, I'm not a
22 lawyer but I'm aware that the confidentiality agreements
23 that I -- I sign -- I typically sign restrict how I can use
24 the data, the confidential data, that I'm allowed to
25 review, and one (1) of those restrictions is it's

1 restricted to use within that particular proceeding.

2 MR. BOB PETERS: And if it's restricted
3 to the use in, let's say, this proceeding that's
4 currently before the Board, that means you can't put it
5 on the public record either.

6 Is that also a given in your
7 confidentiality agreements?

8 MR. JONATHAN WALLACH: That's correct.
9 There would be a confidential portion of the evidentiary
10 record in the proceeding.

11 MR. BOB PETERS: And -- and not that you
12 would, Mr. Wallach, but if for some reason you
13 inadvertently disclosed what Manitoba Hydro's selling
14 price was to Minnesota Power, do your confidentially
15 agreements that you have signed contain provisions where
16 there would be a penalty imposed on you for that?

17 MR. JONATHAN WALLACH: That's my
18 understanding but, again, I'm not a lawyer.

19 MR. BOB PETERS: Well, we don't need more
20 lawyers. Goodness, we have enough of them here.

21 MR. ROBERT MAYER: Careful.

22 MR. JONATHAN WALLACH: I -- I always -- I
23 -- I always want to put that caveat in there, so.

24

25 CONTINUED BY MR. BOB PETERS:

1 MR. BOB PETERS: No, but I'm just saying
2 if -- if you accidentally inadvertently disclosed the
3 price that Manitoba Hydro is getting for its power in its
4 sale with Minnesota Power and you disclosed that to some
5 other Minnesota Utility, what would the normal penalty be
6 that you would be exposed to? Do you know?

7 MR. JONATHAN WALLACH: I don't know
8 because in my thirty (30) years I have never
9 inadvertently disclosed any confidential information.

10 MR. BOB PETERS: But you -- you probably
11 have read one (1) or two (2) confidentiality agreements
12 or had your lawyers read them for you and explain them?

13 MR. JONATHAN WALLACH: Both, yes.

14 MR. BOB PETERS: So is there -- there's a
15 financial penalty?

16 MR. JONATHAN WALLACH: You're subject to
17 -- to -- legal remedy, let's put it that way. It's not
18 as if there's a financial penalty stated in -- in the
19 settlement agreement -- I'm sorry, in the confidentiality
20 --

21 MR. BOB PETERS: Yeah.

22 MR. JONATHAN WALLACH: -- agreement.

23 MR. BOB PETERS: What -- what -- so your
24 understanding of those confidentiality agreements that
25 are in vogue in other jurisdictions is that Manitoba

1 Hydro would have to bring a lawsuit against you to
2 extract from you any damages they say they suffered as a
3 result of your loose lips?

4 MR. JONATHAN WALLACH: Well now I'm going
5 to say I'm not a lawyer so I'm not sure what their legal
6 remedies are available to them.

7 MR. BOB PETERS: No, whatever they are it
8 would be up to Manitoba Hydro to seek a remedy against
9 you. Would that be your understanding?

10 MR. JONATHAN WALLACH: That would be my
11 understanding, yes.

12 MR. BOB PETERS: All right. Do any of
13 these confidentiality agreements contain provisions where
14 there's a fixed dollar amount, or sometimes the fancy
15 word "liquidated damages" is used, where if you give up
16 some information you shouldn't, once you've done that you
17 have to cut a cheque for a certain specified dollar
18 amount?

19 MR. JONATHAN WALLACH: As I said before,
20 I can't recall ever seeing a settlement agreement that
21 sets a specific number or has any kind of liquidated
22 damages amount set there or even a formula for
23 determining liquidated damages as you might see in, you
24 know, a power purchase contract.

25 MR. BOB PETERS: Thank you. So then

1 let's move to the next step that you're involved in a
2 proceeding in a jurisdiction where there's confidential
3 information at play but as an intervenor or a consultant
4 to an intervenor you would be provided access to it.

5 Correct?

6 MR. JONATHAN WALLACH: That -- that's
7 correct.

8 MR. BOB PETERS: And the way you would be
9 provided access is only if you signed a confidentiality
10 agreement mutually satisfactory between your -- yourself
11 and the utility?

12 MR. JONATHAN WALLACH: Between my counsel
13 and utility's counsel, yes.

14 MR. BOB PETERS: And your counsel is
15 working for you, so it's really -- you have to accept it
16 and agree with it?

17 MR. JONATHAN WALLACH: There's -- I've
18 certainly had many a discussion with my counsel about the
19 terms and conditions of those settlement agreements. I'm
20 -- I'm sorry, confidentiality agreements. Sometimes they
21 feel like settlement negotiations.

22 MR. BOB PETERS: Does resort -- Resource
23 Insight Inc. employ internal counsel?

24 MR. JONATHAN WALLACH: No, it does not.

25 MR. BOB PETERS: Oh, all right.

1 MR. ROBERT MAYER: Mr. Peters, before you
2 get too far away from that example you gave about the
3 other utility asking you the question: Is this a good
4 deal? Without disclosing -- technically disclosing any
5 confidential information you can say: I can tell you
6 that is a horrible deal. Don't do it. Here's my bill
7 for a hundred thousand dollars.

8 MR. JONATHAN WALLACH: Well, it would --
9 it would really depend on the -- on the specific
10 circumstances and I'd have to make a judgment as to
11 whether by saying -- making such a statement I would be
12 revealing confidential information. And --

13 MR. ROBERT MAYER: Well, I -- I think
14 that was, I thought, where Mr. Peters was going on that.
15 Because as you describe the - the restrictions on what
16 you can do, you can't disclose the confidential
17 information. You disclosed no confidential information
18 other than your knowledge that -- that you've seen both
19 sets of prices and you tell him they're getting a shitty
20 deal.

21 MR. WILLIAM GANGE: With respect, Mr.
22 Mayer, unless you saw the terms of the confidentiality
23 agreement from a le -- you're -- you're asking him for a
24 conclusion of law and -- and unless you saw the
25 confidentiality agreement that was in effect even making

1 that kind of a statement, It's a bad deal, may well be a
2 breach of the confidentiality agreement.

3 MR. ROBERT MAYER: I'm not looking for a
4 conclusion of law at all. I think Mr. Peters' point is
5 that don't you see that even with a confidentiality
6 agreement in place, unless it specifically covers the
7 kind of situation I -- that Mr. Peters originally put to
8 you, can't you see that the utility, in this case
9 Manitoba Hydro, might be a little bit concerned about
10 disclosing something as valuable to it as the prices of
11 their product being sold to one (1) count -- counterparty
12 when the state next door is in the midst of negotiations
13 with the other.

14 MR. JONATHAN WALLACH: Well, my
15 interpretation of the confidentiality agreements that I
16 typically sign would -- would preclude revealing
17 information that could only be derived from my access to
18 confidential material.

19 And I'm -- I'm speaking from personal
20 practice, I'm not saying this is how it works in the rest
21 of the world but I tend to be -- take a -- a very strict
22 stance on -- on issues of confidentiality. And unless
23 that information is clearly and explicitly in the public
24 domain I'm extremely hesitant and cautious about
25 revealing that sort of information.

1 MR. ROBERT MAYER: Mr. Wallach, I
2 understand that and I take your word for that and I would
3 take a similar view. I am a lawyer and I would take a
4 similar view, but I know that there are lawyers who have
5 a different view than I do, and I'm suspicious that there
6 are consultants who have a different view than you do.

7 And that would be where the Utility may be
8 a little bit concerned about disclosing some -- or at
9 least, I would ask you:

10 Wouldn't the Utility be a little bit
11 concerned about disclosing that particular type of
12 information?

13 MR. JONATHAN WALLACH: Well, if they're -
14 - they have that concern I would imagine that they would
15 be very careful about structuring the confidentiality
16 agreement to preclude such a -- such an event.

17 MR. PAUL CHERNICK: And -- and, Mr.
18 Mayer, I -- you know, I have signed confidentiality
19 agreements in which I explicitly stated that I was not
20 working for, and would not for some number of years, work
21 for any party selling power at retail in the state of
22 Ohio, for example.

23 A confidentiality agreement that said, You
24 won't work for any utility -- any other utility in North
25 America on any subject would clearly be too broad -- or

1 even on power supply issues. But, one (1) that said you
2 won't work for any other utility in -- or power purchaser
3 in the following provinces and states for the following
4 three (3) years, by which time the data would be stale,
5 that might be a very reasonable restriction.

6 Now there would be some consultants who
7 would say, Well, I can't do that because half my work is
8 in Minnesota. Okay. Then the party has to find another
9 consultant who can say, Yes, I can do this because I
10 don't have clients for whom that's a conflict.

11 MR. ROBERT MAYER: You better watch it,
12 Mr. Gange is likely to object that you've just given us a
13 legal opinion on broadness and length of term.

14 MR. PAUL CHERNICK: That was not a -- a
15 legal opinion, that was my statement about the kinds of -
16 - of agreements that I've seen and that -- that I've been
17 able to -- to function under. I've also been presented
18 with confidentiality agreements that basically said
19 you'll never testify against us in any manner, in any
20 way, you'll never work for anybody who buys or sells
21 power anyplace in North America. And those have been,
22 obviously, unworkable and unacceptable. But it is
23 possible where you're dealing with that specific kind of
24 information to -- to narrow it down.

25 And I -- I'd also like to clarify your --

1 your understanding of what people pay us for. That,
2 while we have experience and -- and a background of
3 knowledge, it -- they're generally paying us for an
4 analysis based upon some facts that they can then follow
5 and see whether they agree with us.

6 So it is true that anything that you're
7 exposed to, any facts that you're exposed to, help to
8 change your mindset about whether you're optimistic or
9 pessimistic about fuel prices or the market for energy in
10 the upper midwest, or whatever.

11 But, in terms of the kind of product that
12 Mr. Wallach or I would present to a client, it would have
13 to do with ex -- expected resources, and environmental
14 constraints, and load growth, and fuel prices, and anyone
15 who paid us for information that we said we had seen in
16 some secret document some place would be taking -- you
17 know, putting a lot of faith in -- in our memory about
18 what we saw in that data room.

19 MR. ROBERT MAYER: Sorry, Mr. Peters. I
20 interrupted. I --

21 MR. BOB PETERS: No, no. I think useful
22 and some of the areas I was thinking of were -- were
23 addressed.

24

25 CONTINUED BY MR. BOB PETERS:

1 MR. BOB PETERS: Mr. Wallach, just to
2 include with you, then, on recommendations to this Board
3 that you made in your evidence to Mr. Gange, you were
4 suggesting that some form of restricted access should be
5 made available to the Intervenors and their consultants
6 through confidentiality agreements, correct?

7 MR. JONATHAN WALLACH: I think that would
8 be appropriate, yes.

9 MR. BOB PETERS: And maybe you can assist
10 the Board by explaining some of the actual situations
11 where you have had access to confidential information.
12 Was it done through a restricted website? Was it done
13 through receipt of email information?

14 How -- how does the Utility maintain
15 control over who has access to the confidential
16 information?

17 MR. JONATHAN WALLACH: It's spanned the -
18 - the range from electronic transmittal of spreadsheets
19 and other electronic documents. I have -- actually
20 working on a case right now in Massachusetts where,
21 because of concerns about limiting, restricting access to
22 confidential material, the -- the utility is only
23 providing confidential material on paper, in print,
24 printed versions of whatever files or spreadsheets they -
25 - they've used for their analysis. And they mail to the

1 parties that have signed a confidentiality agreement.

2 As I said in my direct evidence, I've
3 worked on cases where access to -- to confidential
4 material, electronic data is via a password-protected
5 secure website, and -- and there have certainly been
6 other cases where super-secret material, for example,
7 minutes from -- from board meetings, have only been made
8 available at the utility's headquarters and -- and no,
9 you know, reproduction is -- is allowed of -- of those
10 documents. All I can do is -- all I was able to do was
11 to go review the documents and take notes.

12 MR. BOB PETERS: Mr. Chernick, you wanted
13 to pipe in on this, and you may have to the Vice-Chair in
14 -- in one (1) of your answers, but you also, in your
15 direct evidence, were critical of Manitoba Hydro's
16 provision of spreadsheets because they -- well, I guess,
17 because they didn't provide them and if -- whatever you
18 received was essentially PDF and it was incapable of
19 being examined in terms of the -- the formula, correct?

20 MR. PAUL CHERNICK: That's correct.

21 MR. BOB PETERS: What I was going to sug
22 -- then what you were -- what you were asking for was all
23 exhibits be provided by way of unlocked spreadsheets,
24 correct?

25 MR. PAUL CHERNICK: Yes.

1 MR. BOB PETERS: But in the discussion I
2 just had with Mr. Wallach, there may be situations where
3 those spreadsheets do contain commercially sensitive,
4 proprietary -- or information that would be harmful to
5 the utility if in the public domain.

6 You'd agree with that?

7 MR. PAUL CHERNICK: Yes, and I believe
8 that, in my direct, I mentioned, for specific highly
9 sensitive information, where it's the information itself
10 that's -- that's the issue, such as contract prices, it
11 makes sense to just have a value coming out of another
12 spreadsheet for, say, total revenues for the year and
13 have the -- the calculations based on the contract prices
14 be in a more secret calculation, which perhaps is -- is
15 only available to the -- to the parties under very strict
16 confidentiality rules such as -- as Mr. Wallach's been
17 talking about.

18 That would affect very little of the --
19 this -- very few of the spreadsheets that -- that I was
20 referring to in -- in my testimony. Obviously, it'd be a
21 much bigger issue for the -- the analyses that -- that
22 Mr. Wallach was looking at.

23 MR. BOB PETERS: Mr. Wallach, back to
24 you, sir. In your evidence, I noted and wrote on page 9
25 that your concern as you told I think Ms. -- not in your

1 -- not only in your evidence but also to Mr. Gange is --
2 is whether the near total reliance by Manitoba Hydro on
3 hydraulic resources under its recommended plan threatens
4 the financial stability of the Company.

5 MR. JONATHAN WALLACH: I -- I believe
6 that should be the focus of -- of the -- the Board's
7 consideration of this issue.

8 MR. BOB PETERS: And when I -- when I try
9 to parse that down, Mr. Wallach, you're saying to this
10 Board that they should be more -- most concerned about
11 whether the near total reliance on hydraulic resources
12 under the recommended plan threatens the financial
13 stability of the Company.

14 You're doing that to suggest that there
15 may be other options that they should consider?

16 MR. JONATHAN WALLACH: Yes.

17 MR. BOB PETERS: And you did talk about
18 wind in your direct evidence with Mr. Gange but does that
19 answer of yours suggest that it is -- that development
20 that in -- that includes either thermal or wind or some
21 other renewable would be preferred from your perspective
22 over the hydraulic development?

23 MR. JONATHAN WALLACH: I have not --

24 MR. ROBERT MAYER: That's on page 10, Mr.
25 Peters.

1 MR. JONATHAN WALLACH: I haven't made any
2 sort of recommendation with regard to a preferred
3 alternative resource portfolio.

4

5 CONTINUED BY MR. BOB PETERS:

6 MR. BOB PETERS: I'm aware of that.

7 MR. JONATHAN WALLACH: I'm -- I'm really
8 suggesting that the -- the options that I mentioned are
9 just that, options to consider if it's determined that
10 there's merit to diversifying the resource portfolio.

11 MR. ROBERT MAYER: Mr. Wallach, I -- I've
12 been -- I highlighted that part of page 10 of your direct
13 evidence and I -- I have to say that this is the first
14 time I've heard a witness from RCM/TREE suggest that
15 Hydro go to thermal generation.

16 MR. JONATHAN WALLACH: Efficient thermal
17 generation.

18

19 CONTINUED BY MR. BOB PETERS:

20 MR. BOB PETERS: While on that issue of
21 efficient thermal generation, Manitoba Hydro has made the
22 point in their evidence that sixty-four (64) miles from
23 where you're seated there's an abundance of thermal
24 generation in -- in the United States. And so rather
25 than build and construct on their own, wouldn't it be --

1 wouldn't the default option be just more purchases from a
2 thermal based supply market?

3 MR. JONATHAN WALLACH: Certainly an -- an
4 option for either wind or efficient thermal generation
5 would be to purchase from a third party rather than to --
6 for the Company to invest in -- in the resource on its
7 own. And certainly importing from MISO is an option.
8 But depending on -- on the terms and conditions of any
9 sort of contract you might have for that import you might
10 be looking at either market price risk or risk in terms
11 of transmission access.

12 MR. BOB PETERS: When you say "efficient
13 thermal," maybe you should be more definitive and maybe
14 help define that for the Board.

15 MR. JONATHAN WALLACH: Well, I'm mostly
16 thinking in terms of natural gas-fired combustion
17 turbines or combined-cycle units.

18 MR. ROBERT MAYER: I take it nobody's
19 talking nuclear anymore.

20 MR. JONATHAN WALLACH: No.

21 MR. PAUL CHERNICK: I -- I don't think
22 Mr. Wallach and I ha -- have been talking nuclear at all.

23

24 CONTINUED BY MR. BOB PETERS:

25 MR. BOB PETERS: Mr. Wallach, you had

1 indicated earlier that the downside of the risk would be
2 a negative financial occurrence, correct?

3 MR. JONATHAN WALLACH: That's how I
4 define financial risk in -- in this case, yes.

5 MR. BOB PETERS: And the financial risk
6 you see would be borne by the consumers of Manitoba, the
7 ratepayers of Manitoba?

8 MR. JONATHAN WALLACH: In some form or
9 fashion, yes. Ultimately, it's the ratepayers.

10 MR. BOB PETERS: And ultimately it's by
11 way of increased rates?

12 MR. JONATHAN WALLACH: Presumably, yes.

13 MR. BOB PETERS: In your evidence you
14 noted that Hydro's indication that Hydro would rely on
15 retained earnings to take the Corporation through a
16 drought.

17 And that's presumably without having to
18 resort to consumer rate increases or at least rate shock
19 increases?

20 MR. JONATHAN WALLACH: Tha -- that's my
21 understanding of the Company's policy.

22 MR. BOB PETERS: And is it your
23 understanding that Manitoba Hydro's retained earnings are
24 represented by liquid assets available to be converted
25 into cash?

1 MR. JONATHAN WALLACH: I actually don't
2 know what -- what those assets are.

3 MR. BOB PETERS: Mr. Wallach, if Hydro's
4 retained earnings are comprised of non-liquid assets,
5 maybe such as good will or intangibles, and deferred
6 costs such that Hydro would have to rely on borrowing,
7 would that exacerbate the risk of an extended drought?

8

9 (BRIEF PAUSE)

10

11 MR. JONATHAN WALLACH: It would certainly
12 increase the fixed costs to the Company in terms of it
13 would in -- increase their -- their debt service costs
14 and that may or may not result in -- in a further rate
15 increase to consumers.

16 MR. BOB PETERS: If it results in
17 increased fixed cost to the Corporation, where else would
18 it come from except for increases to consumers?

19 MR. JONATHAN WALLACH: Well, to the
20 extent that you can -- you're relying on the debt
21 financing for your cashflow, you can effectively take out
22 the fixed costs from -- cover the fixed costs with your,
23 you know, out of your retained earnings.

24 MR. BOB PETERS: But if those retained
25 earnings weren't liquid and you had to borrow against

1 those non-liquid assets wouldn't that just put you in a -
2 - a further situation of increased costs to be sought
3 from consumers?

4 MR. JONATHAN WALLACH: Eventually, yes.
5 But eventually you could -- you -- presumably, you'll be
6 able to liquidate those retained earnings.

7 MR. BOB PETERS: In the evidence that you
8 provided do you recall indicating that if Manitoba Hydro
9 assumes perfect foresight there would be an
10 underestimation of the system costs?

11 MR. JONATHAN WALLACH: That is my
12 understanding of the -- of the analyses by both KPMG and
13 the independent experts.

14

15 (BRIEF PAUSE)

16

17 MR. BOB PETERS: And as you've said, you
18 were not able to independently verify either the KPMG or
19 the ICF or the Kubursi/Magee conclusions?

20 MR. JONATHAN WALLACH: That's correct.
21 And unfortunately, with the Kubursi/Magee -- especially
22 with regard to their Monte Carlo modelling, they -- the
23 independent experts extended the veil of secrecy over the
24 spreadsheets that they used for their risk modelling,
25 which was based apparently on public information.

1 MR. BOB PETERS: One (1) other area I
2 wanted to talk to you about, Mr. Wallach, was your
3 suggestion that Manitoba Hydro has not examined drought
4 coincident with what I call shortage pricing, that is,
5 the pricing of imports or fuel skyrocketing at the time
6 they're experiencing the drought.

7 That was your recommendation to examine
8 drought coincident with shortage pricing on -- on fuel or
9 imports?

10 MR. JONATHAN WALLACH: Well, I -- I
11 hesitate to call it shortage pricing but yes I believe
12 that they -- they should have looked at drought
13 coincident with a scenario of high import prices.

14 MR. BOB PETERS: Do you find a
15 correlation exists as between drought in Manitoba and
16 high fuel costs or high import costs?

17 MR. JONATHAN WALLACH: Not necessarily,
18 no.

19 MR. BOB PETERS: And so your reason for
20 recommending it is that is a possible occurrence but you
21 don't know, again, the degree to which it's probable.

22 MR. JONATHAN WALLACH: I would suggest
23 neither I nor the Company has that information.

24

25

(BRIEF PAUSE)

1 MR. BOB PETERS: Mr. Chernick, just a
2 couple of questions that I have left from what has been
3 responded to, not only in the Information Request but by
4 questions to counsel today.

5 In terms of estimating the marginal cost
6 for rate design and DSM evaluation you note that Hydro
7 has not provided marginal rate information.

8 MR. PAUL CHERNICK: The marginal cost
9 information has been pretty sparse, yes.

10 MR. BOB PETERS: Were you able to do any
11 calculations of your own in that regard based on what you
12 could get from the record?

13 MR. PAUL CHERNICK: Well, I -- I list
14 some of the estimates of -- of marginal costs that are in
15 the record in my testimony.

16 MR. BOB PETERS: Yeah, I think there was
17 three (3) or four (4) that were --

18 MR. PAUL CHERNICK: Right.

19 MR. BOB PETERS: -- or four (4) or five
20 (5) that you listed. Did you -- did you conclude as to
21 their accuracy of any of those?

22 MR. PAUL CHERNICK: Well, I believe that
23 the -- the data that -- on -- on the monthly on-peak/off-
24 peak shoulder prices under, I believe it was, the SEP
25 program, I found an error in the -- the Company's

1 calculation which the Company has now acknowledged. But
2 I don't believe there was any -- anyplace else where we
3 had enough data to really work with.

4 MR. BOB PETERS: The Vice-Chair and you
5 have talked a little bit about inclining rate structures
6 and you've taken it down to the residential customer in
7 your last area of questions from Mr. Gange.

8 Just help the Board conceptually
9 understand that if today a -- an all-electric customer,
10 that is a customer who uses electricity for space heat in
11 this province, has a bill of, say, thirty-six hundred
12 dollars (\$3,600) a year, just to pick a number out of the
13 air. Does your rate -- rate design -- maybe I didn't
14 reach high enough.

15 MR. PAUL CHERNICK: A customer of a
16 particular size, yes.

17 MR. BOB PETERS: I should have qualified
18 that but let's -- let's -- just for my ease of math --

19 MR. PAUL CHERNICK: M-hm.

20 MR. BOB PETERS: -- if the all-electric
21 customer had a -- had a bill of thirty-six hundred
22 dollars (\$3,600) a year is your rate design sugg --
23 suggestion where you would decrease the size of the first
24 block in the winter months, is that designed to reduce
25 the annual -- the annual amount?

1 MR. PAUL CHERNICK: I would increase the
2 size of -- of the first block, the lower cost first
3 block, in the winter for those customers.

4 MR. BOB PETERS: I meant to say that
5 because I think you said that earlier today.

6 MR. PAUL CHERNICK: Yeah.

7 MR. BOB PETERS: If I misspoke, I
8 apologize.

9 MR. PAUL CHERNICK: No, that's --

10 MR. BOB PETERS: Let me start -- let me
11 start that over.

12 MR. PAUL CHERNICK: Okay.

13 MR. BOB PETERS: The -- the current first
14 block stops at nine hundred (900) kilowatt hours a month,
15 correct?

16 MR. PAUL CHERNICK: Or the one that
17 existed before the beginning of this proceeding, yes.

18 MR. BOB PETERS: Fair enough. And your
19 suggestion is that in the winter months that first block
20 would be enlarged to a certain determined number based
21 on, maybe, the average load for the all-electric
22 customers at that point in time.

23 MR. PAUL CHERNICK: The cutoff should
24 probably be lower in the summertime and for non-heating
25 customers in general. And that above that cutoff,

1 whatever it is, there should be an -- an additional
2 increment of the first block for heating customers so
3 that a customer who would -- if the average customer,
4 hypothetically, were paying thirty-six hundred dollars
5 (\$3,600) a year, an average heating customer, that the
6 increase -- the combination of the inclining block and
7 the larger first block would leave that average customer
8 paying thirty-six hundred dollars (\$3,600) a year, so
9 that the rate design is not imposing a -- a dead-weight
10 cost on that customer just for being an electric heating
11 customer.

12 But the customer would be exposed to the
13 higher marginal costs in each month, heating and non-
14 heating months, and would have an incentive to -- to
15 reduce his usage in all those months.

16 MR. BOB PETERS: So that rate design, you
17 would suggest, would be revenue neutral to the Utility?

18 MR. PAUL CHERNICK: Well, the rate design
19 part itself. It probably would be implemented in
20 connection with rate increases which wouldn't be revenue
21 neutral but the initial objective would be to -- to
22 simply -- to redistribute the -- the rates in a way that
23 gives better price signals without increasing the total
24 bill to the residential class or, for that matter, to the
25 heating part of the residential class.

1 MR. BOB PETERS: And without reducing the
2 overall annual bill on average to the heating class?

3 MR. PAUL CHERNICK: That's correct.

4 MR. BOB PETERS: All right. If -- if we
5 come to that understanding, that it's revenue neutral,
6 why wouldn't the all-electric customer be better off to
7 simply elect the equal payment plan where their annu --
8 their monthly payment is levelized or averaged out over
9 the year?

10 MR. PAUL CHERNICK: Are you suggesting
11 that's an alternative to what I was proposing?

12 MR. BOB PETERS: Well, are you aware that
13 in Manitoba, that the equal payment plan is an option
14 available to Manitobans?

15 MR. ROBERT MAYER: It doesn't save us any
16 money, Mr. Peters. We still --

17 MR. BOB PETERS: Thank you.

18 MR. ROBERT MAYER: -- suffer. Yeah, we
19 still -- and, by the way, you weren't far wrong at
20 thirty-six hundred (3,600). I was thinking kilowatt
21 hours. But that doesn't solve the problem that we've
22 heard about from every person who's come to us respecting
23 this inability to use anything but electric heat, and
24 that is the extra cost.

25 I am on a monthly plan, but I still pay a

1 significant amount of money into the second -- into the
2 second rate, or a significant portion of my bill into the
3 second rate, simply because I have to use electric heat
4 for -- electricity for heat.

5 MR. PAUL CHERNICK: So my -- my objective
6 would -- would be to provide that better price signal for
7 the customer in each month, and the fact that Hydro is
8 willing to spread out the -- the bill equally over the
9 year for the customer's budgeting purposes, that's --
10 that's nice but that doesn't affect the actual bill that
11 the customer is being charged for each month. And I
12 assume at the end of the year there's some
13 reconciliation.

14 And, to the extent that the customer's
15 responded to the fact that there's a higher marginal
16 price and it saves money to -- to cut back where that's
17 possible, to invest in higher efficiency, and so on, then
18 a customer on a levelized bill plan will wind up with a
19 refund at the end of the year and a lower levelized bill
20 for the next year.

21

22 CONTINUED BY MR. BOB PETERS:

23 MR. BOB PETERS: Perhaps I haven't asked
24 my question clearly but -- or maybe we're complicating it
25 with too many assumptions but I -- I picked the thirty-

1 six hundred dollar (\$3,600) a year as the average -- or
2 as the bill of this one (1) particular house that we'll
3 pick in -- somewhere in Manitoba and that's how much they
4 paid last year and let's leave all the rate increases --

5 MR. PAUL CHERNICK: M-hm.

6 MR. BOB PETERS: -- out of it, so there's
7 no more rate increases. It's thirty-six hundred dollars
8 (\$3,600) a year, it has been --

9 MR. PAUL CHERNICK: M-hm.

10 MR. BOB PETERS: -- for, let's say, the
11 last couple of years, and the weather's been exactly the
12 same --

13 MR. PAUL CHERNICK: M-hm.

14 MR. BOB PETERS: -- in the last few
15 years. Is your rate design designed to make it cheaper
16 for that customer or is it just to spread the payments
17 out more?

18 MR. PAUL CHERNICK: My rate design would
19 be intended to give that customer the incentive to
20 conserve.

21 MR. BOB PETERS: Well, let me -- just let
22 me interrupt on that. The customer already has an
23 incentive to conserve --

24 MR. PAUL CHERNICK: Right.

25 MR. BOB PETERS: -- because they're into

1 the second tier, let's say, and the second tier would be
2 higher than the first tier, as it was --

3 MR. PAUL CHERNICK: Okay.

4 MR. BOB PETERS: -- when these
5 proceedings commenced.

6 MR. PAUL CHERNICK: So, are -- are you --
7 I'm -- you are getting me confused about your
8 assumptions.

9 Are we assuming here that we have an
10 inclining block structure?

11 MR. BOB PETERS: Yes.

12 MR. PAUL CHERNICK: Okay. I'm sorry, I
13 thought you were talking about going from a flat rate to
14 an inclining block rate. So the point -- okay, in that
15 case, we're -- we're going from -- taking a step from a
16 different starting point and -- and some of what I said
17 must have been very confusing to you.

18 So, yes, the idea of having a larger
19 initial block is to reduce the bill to that lar -- that
20 customer with higher consumption because they're electric
21 heating with a reasonable allocation of kilowatt hours to
22 recognize the fact that they're an electric heating
23 customer and bring their bill to about where it would
24 have been before we implemented the inclining block.

25 So if it was thirty-three hundred dollars

1 (\$3,300) and the inclining block made it thirty-six
2 hundred dollars (\$3,600) then the larger allowances for
3 space heating in the first block in the winter would
4 bring the bill down to about thirty-three hundred
5 (3,300). But the tail block rate in each month is still
6 the higher second block rate and to the extent that the
7 customer reduces their usage they're getting that second
8 block signal.

9 MR. BOB PETERS: All right. Let's assume
10 the customer isn't -- you know, the price signals are the
11 price signals but they haven't changed the thirty-six
12 hundred dollars (\$3,600) a year. When you change the
13 blocks you're now not making it revenue neutral to the
14 Corporation, correct?

15 You're giving the homeowner more
16 electricity at a lower price and that makes it cheaper on
17 an annual basis for the all-electric customer or anybody
18 who's into the -- what is now the second block?

19 MR. PAUL CHERNICK: If -- if all you
20 wanted to do in a particular proceeding was just
21 implement the space heating block allowance you would
22 have to redesign the whole residential rate so that the -
23 - maybe the tail block rate would go up, the initial rate
24 would go down. Perhaps the basic charge would go down so
25 that you'd get the same -- or -- or various parts might

1 go up, but you'd want to get the same revenue that you
2 would get without those allowances for additional heating
3 use.

4 MR. BOB PETERS: All right.

5 MR. PAUL CHERNICK: You don't want to --
6 the -- the point of -- of the additional blocks is not to
7 reduce total revenue to the -- to the Company. It's to
8 counteract on average for the heating customers the
9 effect of the inclining block and take into account the
10 fact that they are stuck with electric heat and give them
11 an allocation of low-cost energy.

12 MR. BOB PETERS: And if the overall
13 design is revenue neutral to the Utility, then there is a
14 re-allocation of the revenues to the non-electric space
15 heat customer to make up the revenue that the space heat
16 customer is saving?

17 MR. PAUL CHERNICK: As compared to an
18 inclining block rate without a space heating allocation.
19 But it would basically be moving -- the initial thing
20 that would happen is, if we just at one (1) fell swoop
21 made the second block rate above 900 kilowatt hours, 20
22 percent higher than the first block rate, the effect
23 would be to increase bills to heating customers primarily
24 and decrease bills on an annual basis to non-heating
25 customers.

1 There might be some concern about doing
2 that, hypothetically. So if at the same time you -- you
3 implemented these winter heating allocations with a
4 larger first block you would bring down the cost to the
5 customers -- to the heating customers, and to collect the
6 same revenue you'd wind up increasing rates to the -- the
7 non-heating customers but you would be back on an overall
8 -- comparing those two (2) subclasses, you'd be back
9 about where you started before you put in the inclining
10 blocks.

11 This is a fix for the inclining block and
12 the equity effect that the inclining block would have on
13 the heating customers.

14 We want the inclining blocks for
15 efficiency signals but we don't want them to -- which is
16 a -- a good thing but we don't want that good thing to
17 run down people on the highway on the way. So we put in
18 this protective mechanism that gives people the price
19 signals without the -- the dead weight of -- of a huge
20 bill increase.

21 MR. BOB PETERS: What happens when the
22 non-electric heating customers who are now using in this
23 province natural gas experience natural gas price
24 increases?

25 MR. PAUL CHERNICK: I assume they're

1 unhappy about it.

2 MR. BOB PETERS: All right. And if
3 they're unhappy because their cost of heating is now
4 greater than heating all electrically, should there be
5 any relief provided to those customers?

6

7 (BRIEF PAUSE)

8

9 MR. PAUL CHERNICK: I guess I -- I don't
10 really see the connection there and I -- I think that it
11 is economically and environmentally preferable to have
12 customers who can heat with gas do so and to do so
13 efficiently. And I would hope that the rate structures,
14 at least for new customers, would give that signal.

15 The fact that you hand out allocations to
16 existing heating customers and perhaps heating customers
17 who do not have access to gas, does not mean that you
18 have to give it out to people who currently have gas and
19 want to switch over to -- to electric heat for one (1)
20 reason or another.

21 MR. BOB PETERS: All right. Thank you
22 for that. In terms of time-of-use rates, are you
23 familiar with time-of-use rates for residential customers
24 in -- in any jurisdictions?

25 MR. PAUL CHERNICK: Yes.

1 MR. BOB PETERS: And are those
2 administered without the use of smart meters?

3 MR. PAUL CHERNICK: Most of them are.
4 Now there are some smart meters coming in but
5 jurisdictions have had time-of-use rates for maybe thirty
6 (30) years. The -- they used to have a meter that --
7 that basically had three (3) dials and -- and a clock
8 that switched from recording on one (1) dial to recording
9 on the next dial depending upon the time of day. You now
10 have electronic systems that will upload the data,
11 automatic meter interfaces, and so on, so it's a lot
12 easier to do. But you don't need the tech -- kind of
13 technology that's usually talked about in terms of being
14 a smart meter.

15 MR. BOB PETERS: Well, do I take from
16 your last answer that you do need a meter capable of --
17 of time-differentiating usage?

18 MR. PAUL CHERNICK: Yes. And the cost of
19 the meter certainly cuts into the cost effectiveness of
20 the time-of-use rates for small customers.

21
22 (BRIEF PAUSE)

23
24 MR. BOB PETERS: Mr. Chairman, I'd like
25 to thank Messrs. Wallach and Chernick for their answers

1 to my questions. Those do complete my questions.

2

3 QUESTIONED BY BOARD:

4 MR. ROBERT MAYER: I have --

5 MR. PAUL CHERNICK: I'm not getting away,
6 am I?

7 MR. ROBERT MAYER: Your -- your comment
8 on it's environmentally preferable to heat with gas
9 rather than with hydro-electricity struck me as a little
10 strange. How is it more environmentally friendly to be
11 burning gas than electrically heating a home when my
12 electricity comes from renewable resources?

13 MR. PAUL CHERNICK: Well, basically
14 because if you weren't using the electricity, if we could
15 get you some -- some other more economic heating source
16 then that electricity could be sold to Ontario or
17 Saskatchewan or the US and back out gas being burned to
18 produce electricity to heat less efficiently than a
19 natural gas furnace would do for you, or even better from
20 an environmental standpoint, backing down coal plants.

21 MR. ROBERT MAYER: But -- that's an
22 interesting concept. We're not, even at really bad
23 prices, hopefully not selling our power at what people
24 can produce it for with coal. The -- I understand coal
25 is relatively cheap, that coal can produce electricity

1 relatively cheaply.

2 We, so far as I understand, have not been
3 able to compete with Saskatchewan's coal, or Alberta's
4 for that matter, in terms of producing power, and I'm not
5 entirely sure how interested they appear to be, although
6 we do hear some talk periodically about east/west
7 transmission grids instead of north/south, but there
8 doesn't seem to be a whole lot of uptake in the last
9 little while, so I'm not sure how realistic that
10 possibility would be.

11 MR. PAUL CHERNICK: Well, certainly
12 anytime that Manitoba Hydro has hydro power available and
13 nothing better to do with it, if it can send it to the US
14 and back down a coal plant that costs two (2) cents a
15 kilowatt hour to run, you're getting two (2) cents out of
16 that and reducing coal emissions.

17 In the longer term, the availability of
18 clean resources, including Manitoba's hydro resources, to
19 -- to the US -- I'm not as familiar with Saskatchewan and
20 your transmission connections, but certainly for -- for
21 the US the -- the utilities are -- are looking at the
22 costs of maintaining their coal plants in the face of a -
23 - an array of environmental costs.

24 And when they look at that and compare the
25 costs of adding scrubbers, and NOx control, and so on --

1 and maybe a carbon tax someday, and compare that chunk of
2 costs, including the costs of coal, which is not as cheap
3 as it used to be, to the costs of a purchase of power
4 from Manitoba Hydro, you can -- you know, you may be able
5 to beat out coal plants on that -- that basis, as well.

6 So I think both in the -- in the short-
7 term spot market and -- and in the longer term market
8 there is some potential for the -- for your hydro to --
9 to displace coal. And I haven't looked at this in a
10 while and I really can't get any more specific at the
11 moment.

12 MR. WILLIAM GANGE: Mr. Mayer, if I may
13 add something. Although it -- it may have struck you as
14 interesting in -- in terms of the way that you phrased
15 that question, that has been the position of RCM/TREE
16 throughout sev -- throughout the Centra Gas hearing two
17 (2) times ago and -- and the past hydro rate hearings,
18 and -- and it is one (1) of the purposes of the fuel
19 switching report. And -- and you may also want to refer
20 to Exhibit 132 of Manitoba Hydro which deals with this
21 issue to a certain extent.

22 But -- bu, Mr. Chernick's evidence is
23 consistent with the position that RCM/TREE has taken for
24 a long time on that issue.

25 MR. ROBERT MAYER: That it's better for

1 me to burn gas to heat than to use non-polluting electric
2 power to heat.

3 MR. WILLIAM GANGE: Yes.

4 MR. ROBERT MAYER: I -- I have it clear.

5 MR. PAUL CHERNICK: The -- the choice
6 isn't between your burning gas versus building and
7 running a hydro plant to supply your heat, or between
8 your burning gas and dumping existing hydro with your
9 using that hydro to heat with.

10 I mean, if we're -- if the water were just
11 gonna spill over the dam otherwise, then you might as
12 well use it for heating. It's environmentally preferable
13 and -- and economically cheaper because it's free.

14 But the point is that that hydro power
15 goes someplace, and it's usually going to places which
16 are using more polluting sources to produce electricity,
17 more polluting than your gas furnace.

18 MR. ROBERT MAYER: I recognize that to
19 some extent, sir, and let's not talk about stuff running
20 overtop of dams right now, because that is a bit of a
21 problem. We have a little bit more water than we
22 probably need.

23 MR. PAUL CHERNICK: We -- we have that
24 problem in New England, as well. We're sympathetic.

25 THE CHAIRPERSON: Mr. Wallach, just a few

1 questions that arise out of Mr. Peters' questions. First
2 ones are -- I think a fairly simple one, but I may be
3 just slow right now. You made a reference to Manitoba
4 Hydro in a drought situation, to avoid rate shock,
5 liquidating its non-liquid retained earnings.

6 Could you please explain how you could
7 liquidate non-liquid retained earnings, like retained
8 earnings that are basically, for example, deferred costs
9 and goodwill and intangibles?

10 MR. JONATHAN WALLACH: Well, let me just
11 start by saying the first thing I said to Mr. Peters was
12 I -- I don't have any personal knowledge of what those
13 assets are, what constitutes retained earnings. But,
14 secondly, to the extent that you have, in general, a
15 relatively illiquid asset, at some point you should be
16 able to liquidate it. You may not be able to liquidate
17 it at -- at the -- at the optimal value, but, like I say,
18 you know, at some point, you should be able to -- to sell
19 it to someone.

20 MR. PAUL CHERNICK: Well -- or in -- in
21 some of the examples you just gave, if you have a
22 regulatory asset and you're recovering \$5 million a year
23 of your \$50 million asset, you're liquidating it year by
24 year as you recover it from the ratepayers. So you can't
25 turn it into \$50 million of cash right now to cover your

1 -- your earnings shortfall, but -- and you have to borrow
2 money to cover the difference, but you've got a
3 promissory note from the Board for \$50 million that you
4 can borrow against and -- and get the \$50 million now,
5 you get \$5 million from the customers, you pay back \$5
6 million of your -- of your loan, and so on.

7 It certainly would be less expensive if
8 you had the \$50 million sitting in the bank, but so long
9 as it's a -- a real asset that you're going to earn a
10 return on, and you've got the time and you've got the
11 crediwor -- creditworthiness to borrow money in the
12 meantime, you should be able to -- to turn that future
13 cashflow into -- into cash today to cover the shortfall.

14 THE CHAIRPERSON: Thank you. I -- I
15 follow you, Mr. Chernick. Mr. Wallach or Mr. Chernick,
16 it doesn't matter, you gave evidence that appeared to
17 favour utilities that rely on a -- if you want to call
18 it, diversified generation sources.

19 Are you aware of any large electric
20 utility that relies on one generation source to the
21 degree that Manitoba Hydro does?

22 MR. JONATHAN WALLACH: I personally can't
23 recall. Certainly none of the -- the -- none of the
24 jurisdictions that I've worked in have I ever seen this,
25 you know, level of concentration in one (1) resource.

1 Mr. Chernick may have some experience.

2 MR. PAUL CHERNICK: BC Hydro may have
3 been close, I think, with their -- their recent plans for
4 diversifi -- diversification into other renewables. They
5 may be cutting into that, but -- and there are utilities
6 in the United States that are 95 percent or more
7 dependent upon coal for their -- for their energy supply,
8 which, given fuel price contracts and -- and so on, are
9 not -- doesn't expose you to the same kind of volatility,
10 but does expose them to a great deal of -- of non-
11 diversifiable risk right now when they're facing, for
12 example, all these environmental challenges.

13 THE CHAIRPERSON: Could you summarize
14 your -- your argument for diversification from a
15 consumer's perspective?

16 MR. JONATHAN WALLACH: Well, from a
17 consumer's perspective, what you're buying with
18 diversification is the potential for rate stability, rate
19 stability in the face of -- of dramatic variations in --
20 in water flows in -- in the province.

21 And so you may be incurring a higher
22 expected cost for your resource portfolio than if you
23 were to remain concentrated or solely reliant on hydro,
24 but it's -- you're paying an insurance premium and giving
25 your -- giving yourself the -- the -- some assurance of -

1 - of rate stability over time if something bad happens.

2 THE CHAIRPERSON: Mr. Wallach, based on
3 what you are aware of, are you confident that the
4 Manitoba Hydro's development plan, which includes the
5 expenditure of say 15 billion plus for new hydro plants,
6 new transmission, ahead of domestic load requirements and
7 funded by borrowings and new export sale commitments, are
8 you confident that that plan will prove beneficial for
9 customers, and beneficial defined as at least maintaining
10 the current, say, export discount off rate?

11 MR. JONATHAN WALLACH: I'm afraid I'm
12 going to have to plead ignorance in that regard because
13 not having access to the -- to the confidential material,
14 I just -- I -- I'm unable to make an assessment or a
15 judgment as to -- as to the likelihood that -- that the
16 plan will work out as expected.

17 All I can say is that the company is
18 essentially engaging in asset arbitrage. They're --
19 they're selling a long-dated forward contract on -- on
20 the expectation and the hope that the -- that the costs
21 to meet the obligations in that long-dated contract are --
22 - turn out to be as they expect them today. And so
23 they're in -- incurring -- you know, they're taking some
24 risk there.

25 THE CHAIRPERSON: I must admit I expected

1 that would be -- you had sort of indicated before that
2 the restricted amount of information would affect your
3 ability to provide an opinion on something like that.

4 But please, once again, could you tell us
5 what would you want to know before you could provide an
6 opinion on that?

7 MR. JONATHAN WALLACH: Wow. Well, I can
8 tell you what we -- what we asked for on discovery. We
9 asked for the confidential provisions of the -- the new
10 contracts. We asked for the -- the company's forecasts
11 of the costs -- the annual costs associated with their
12 preferred resource plan, as well as the -- the
13 alternative resource plan.

14 We asked for the discount rate that the
15 company was assuming for the purposes of determining the
16 net present value of each of their resource plans. We --
17 we asked for the -- the inputs and outputs from the
18 SPLASH model runs used by KPMG to -- to estimate the
19 earnings/losses under various scenarios.

20 We asked for the assumptions about and the
21 forecasts of market prices, and as well as for the -- the
22 methodology used to determine the market prices for the
23 exports and the imports that were modelled in KPMG's
24 analyses. And I'm sure we asked for a whole lot more
25 than that and all of that, of course, was denied to us.

1 THE CHAIRPERSON: Mr. Wallach, I think
2 you indicated that the two (2) of you read the
3 independent expert's report.

4 MR. JONATHAN WALLACH: I -- I did, yes.

5 THE CHAIRPERSON: Yeah. I don't know
6 whether you read the -- the transcripts from the
7 testimony that they gave. But Dr. Kubursi -- I -- I
8 think I'd say -- I'd -- I'd define it basically as he
9 argued for a faster rate of amortization of -- other than
10 a straight line. In other words, say, for example, the
11 new generation in transmission would have a physical life
12 of sixty (60) years, and the normal accounting approach
13 would be to take roughly 1.67 percent of that asset in
14 for accounting purposes. Dr. Kubursi basically argued
15 that the economical life of an asset, given technological
16 advances at the speed that they have been coming, argued
17 for a -- a speeded-up version of -- of amortization.

18 Do you have any comment on that? To
19 shorten, in other words, the period of time that it would
20 take to fully amortize the new assets.

21 MR. JONATHAN WALLACH: I'm going to look
22 over here to Mr. Chernick, who I understand just dealt
23 with this issue in a case in -- in Nova Scotia, and
24 perhaps he'd like to offer his opinion on that.

25 MR. PAUL CHERNICK: Well, that was a very

1 different case, since there they were looking at coal
2 plants whose lives, in fact, maybe shortened, and they
3 had some reasonable argument that at least you need to
4 look at that for coal plants. It's hard to see what
5 would affect the -- what would shorten the useful life of
6 the -- the hydro plants.

7 The -- the other thing that puzzles me a
8 little bit about that recommendation, in -- in terms of
9 the -- the risk issue, is that in general if a utility
10 has a higher depreciation rate, it -- it has appreciation
11 cash flow, it doesn't add to earnings, it gives them more
12 cash on hand; therefore they have to borrow less to -- to
13 build new projects.

14 So it sounds like the effect would be that
15 customers in the short term would wind up paying for --
16 customers today would wind up paying for assets that
17 would come online in the future. Customers in the early
18 years of the plant's life would be paying for the -- for
19 the plant in the later years. And I'm not sure why
20 accelerating that -- that payment schedule would be
21 particularly helpful.

22 THE CHAIRPERSON: Thank you, sir. Do you
23 have any re-direct of your witnesses, Mr. Gange?

24 MR. WILLIAM GANGE: No, I do not. Thank
25 you, Mr. Chair.

1 THE CHAIRPERSON: Well, thank you to the
2 witnesses. A very forthright discussion. It certainly
3 assists the understanding of the Board of the many and
4 complex issues that are before us, so we appreciate this
5 day that we've spent with you.

6 Mr. Peters, I don't imagine that Mr.
7 Hacault and his witnesses are ready to go at this point?

8 MR. BOB PETERS: No, we -- we had hoped
9 that that could commence tomorrow morning.

10 THE CHAIRPERSON: Well, I'm sure that no
11 one here will mind having a few hours to do other things
12 too. And so that will bring to a close our hearing
13 today, and we'll look forward to seeing everyone, other
14 than the witnesses, tomorrow at 9:30 again.

15 And tomorrow -- tomorrow I believe we have
16 MIPUG's witnesses, Mr. Bowman and Ms. McLaren, correct,
17 Mr. Peters?

18 MR. BOB PETERS: That is correct. Yeah.

19 THE CHAIRPERSON: Okay. So we stand
20 adjourned. Thank you again.

21

22 (PANEL STANDS DOWN)

23

24 --- Upon adjourning at 2:49 p.m.

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Certified Correct

Cheryl Lavigne, Ms.