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MANITOBA PUBLIC UTILITIES BOARD

RE:

MANITOBA HYDRO'S
APPLICATION FOR APPROVAL OF
ENERGY INTENSIVE INDUSTRIAL RATES

Before Board Panel:

Graham Lane	- Board Chairman
Robert Mayer	- Board Member
Susan Proven	- Board Member

HELD AT:

Public Utilities Board
400, 330 Portage Avenue
Winnipeg, Manitoba
January 22, 2009

Pages 1473 to 1584

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APPEARANCES

Bob Peters)Board Counsel
Patti Ramage)Manitoba Hydro
Janet Mayor)
Byron Williams (np))Coalition
John Landry)MIPUG
Michael Anderson (np))MKO
Bill Gange)RCM/TREE
Beth Tait-Milne)

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LIST OF EXHIBIT

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1 --- Upon commencing at 1:07 p.m.

2

3 THE CHAIRPERSON: Okay. Good afternoon,
4 everyone. We're here today gathered to hear Manitoba
5 Hydro's closing statement.

6 Before we call on Ms. Ramage I'd like to
7 note that we have received, albeit late, MKO's
8 submission. Counsel has surveyed Manitoba Hydro and it's
9 the Board's understanding -- Ms. Ramage could correct me
10 if I'm wrong -- that they don't have any objections to it
11 being added to the record. Thereby, the submission will
12 be reflected in the records as MKO Exhibit Number 2.

13

14 --- EXHIBIT NO. MKO-2: MKO's closing submissions

15

16 WRITTEN FINAL SUBMISSIONS BY MKO - INSERTED BELOW:

17

18 2008 Manitoba Hydro Energy Intensive Industrial Rates
19 Application

20 Outline MKO's Final Summation and Recommendations

21 January 20, 2009

22

23 1. The Chairman succinctly set out the
24 core issue of concern to the shareholders, to the
25 customers and to the regulator that underlies any

1 consideration of Manitoba Hydro's proposed Energy
2 Intensive Industrial Rate (EIIR) in the Chairman's
3 opening remarks at Tr. 33 (and as also noted at page 374
4 of Order 116/08:

5 "In the days ahead, the Board looks
6 forward to your assistance in its
7 gaining a further understanding as to
8 how best to address the issue of
9 embedded cost rates being considerably
10 lower than marginal costs and the
11 potential negative financial impact
12 that can result to the Utility and its
13 domestic customers."

14 2. Manitoba Hydro described its corporate
15 objectives for the EIIR in its Application and at PUB/MH-
16 1-1(c). Manitoba Hydro's objective No. 1 for the EIIR is
17 "economically more effective price signals." It remains
18 MKO's view that the design of rates for all customer
19 classes must address the "issue of embedded costs rates
20 being significantly lower than marginal costs" - and not
21 just through the design of a unique rate to apply to
22 those customers within the General Service Large (GS
23 Large) class who are forecasting significant load growth.
24 MKO recommendation No. 16 in the 2008 General Rate
25 Application stated:

1 "MKO suggests that properly designed
2 inverted rate structures could
3 accomplish the goals Manitoba Hydro is
4 trying to achieve with their proposed
5 energy intensive rate design and that
6 Manitoba Hydro should propose such
7 rates for all customer classes in the
8 next proceeding. As noted by Manitoba
9 Hydro, the hydroelectric generation
10 built in Manitoba provides more than
11 economic benefits, it also provides
12 "quality of life" benefits (April 30,
13 2008 Tr. 3143 4-12). Inverted rates
14 must reflect an appropriate trade-off
15 between providing the appropriate level
16 of "quality of life" benefits and
17 maximizing the economic value of
18 Manitoba Hydro's generation capability.
19 In this regard, MKO further recommends
20 that the Board order that the
21 application of any inverted rate
22 structure for any customer class must
23 be accompanied by universally available
24 and practically accessible DSM programs
25 that are provided by Manitoba Hydro on

1 a turnkey basis, as recommended by Mr.
2 Dunsky."

3 3. Manitoba Hydro explained the removal of
4 the previous exemption criteria in response to MKO 1-5
5 and PUB-MH 1-11(f) stating:

6 "Manitoba Hydro listened to the
7 interveners and stakeholders who
8 expressed a strong position that it was
9 not Manitoba Hydro's responsibility to
10 determine which companies were good for
11 the province. This new rate proposal
12 was designed to generally address the
13 potential rate impacts associated with
14 the rapid growth of energy intensive
15 industries without the use of any
16 economic benefit exemption criteria."

17 MKO suggests that the objective of any
18 exemption criteria is perhaps unintentionally
19 oversimplified by describing such a criteria as a
20 mechanism for determining "which companies were good for
21 the province." In any case, MKO has previously argued
22 and agrees with Manitoba Hydro that the appropriate
23 persons to make such a determination are the province of
24 Manitoba in close consultation with First Nations,
25 Manitoba Hydro's customers and stakeholders.

1 However, as already noted and alluded to
2 by Manitoba Hydro in Objective No. 4 at PUB/MH 1-1(c),
3 rate-making decisions - including those related to the
4 proposed EIIR - must inevitably consider and incorporate
5 broader societal values and goals, such as "quality of
6 life" and "economic expansion of industry."

7 4. MKO would state the central objective
8 of the shareholders, the customers and the regulator
9 ought to be ensuring that the water power resources of
10 Manitoba and the electricity generated by the development
11 of these water power resources must achieve maximum value
12 and benefits for Manitobans and in particular for those
13 Manitobans who are adversely affected by Manitoba Hydro's
14 projects and operations. The MKO First Nations therefore
15 have a direct purpose in ensuring these values and
16 benefits are achieved, which is intensified by the
17 intimate relationship between Manitoba Hydro and the MKO
18 First Nations established on Manitoba's developed
19 waterways.

20 5. MKO submits that the appropriate
21 persons to make a determination of whether the "maximum
22 value and benefits for Manitobans" is being achieved are
23 the province of Manitoba in close consultation with
24 Hydro-affected First Nations, Manitoba Hydro's customers
25 and stakeholders. In this respect, MKO is not comforted

1 by Manitoba Hydro's representation at MKO/MH 1-5 and to
2 PUB/MH 1-18(d) that adequate proof of the engagement and
3 authorization of the provincial government is reflected
4 by the approval of the proposed EIIR by the Manitoba
5 Hydro Board.

6 6. For example, while it appears that the
7 Board and all parties including MKO agree with the
8 general objective of ensuring that the sales of
9 electricity achieve the revenues necessary to address
10 costs - including all social and environmental costs -
11 and risk to meet the needs of domestic customers,
12 Manitoba Hydro's Objective 2 for the EIIR as set out at
13 PUB/MH 1-1(c), being to "limit reductions in revenues
14 caused by displacement of exports" by sales to one group
15 of domestic customers in order to "limit or reduce rate
16 increases" to domestic customers, is also properly a
17 matter of public policy. Other options for the
18 application of any EIIR revenues also exist, such as
19 mentioned during the discussion between Mr. Peters and
20 Mr. Chernick at Tr. 869-870 regarding direct application
21 of EIIR revenues for the promotion of economic
22 development.

23 7. In making such determinations of
24 public policy, MKO submits that Manitoba owes a duty to
25 the First Nations affected by Manitoba Hydro's projects

1 and operations to ensure that "maximum value and benefit"
2 is being achieved. MKO asks the Board to take judicial
3 notice of Article 18.2 of the December 16, 1977 Northern
4 Flood Agreement, which assures:

5 "18.2 Canada and Manitoba recognize
6 that 'the Project is intended to
7 benefit all citizens of Canada, and
8 most particularly of Manitoba,' on the
9 one hand, and that the resource users
10 have been and may continue to be
11 adversely affected on the other hand,
12 and that 'it is in the public interest'
13 to ensure that any damage to the
14 interests, opportunities, lifestyles
15 and assets of those adversely affected
16 be compensated appropriately and
17 justly. [emphasis added]

18 8. MKO also asks the Board to take
19 judicial notice of Article 18.4 of the Northern Flood
20 Agreement, which further assures:

21 "18.4 The Project affects the
22 activities and traditional lifestyles
23 of the communities and anxieties have
24 developed regarding the viability of
25 the communities, the free and safe use

1 of the waterways, and 'the continued
2 opportunity to carry on traditional
3 activities, particularly as they relate
4 to the wildlife resources as a source
5 of food, income-in-kind and income.'
6 These anxieties may be allayed by
7 Hydro, Manitoba and Canada using their
8 best efforts 'to ensure that potential
9 benefits of the Project are made
10 available' in a practical manner to the
11 residents of each Reserve. [emphasis
12 added]

13 The Northern Flood Agreement acknowledges
14 that the wildlife resources adversely affected by The
15 Project would otherwise be employed by the residents of
16 each Reserve as a "source of food, income-in-kind and
17 income." The Northern Flood Agreement also assures that
18 the "potential benefits of The Project are made
19 available" to address the adverse effects of The Project.
20 Using the Merriam-Webster dictionary's definition of
21 capital (noun) as "accumulated goods devoted to the
22 production of other goods" or "accumulated possessions
23 calculated to bring in income," it is arguable that the
24 "wildlife resources" referred to in the Northern Flood
25 Agreement are capital invested in The Project and that

1 the "potential benefits of The Project" are a return on
2 that investment.

3 9. Discussion during the proceeding
4 touched on the role and expectation of shareholders in
5 respect of the financial performance of utilities
6 generally and of Manitoba Hydro specifically, such as Mr.
7 Mayer's comment at Tr. 871, Mr. Ostergaard at TR. 1058
8 and 1135. MKO's recommendation No. 17 in the 2008 GRA
9 stated that:

10 "As to the Board's consideration of who
11 is the 'shareholder' of Manitoba Hydro,
12 MKO recommends that the Board
13 acknowledge that the Hydro Affected
14 First Nations are also the original
15 capital investors in the Manitoba Hydro
16 system, as is acknowledged under
17 Article 18.3 [18.4] of the 1977
18 Northern Flood Agreement. MKO
19 recommends that the Board acknowledge
20 that the Hydro Affected First Nations
21 are - at a minimum, co-investors in the
22 hydroelectric generating facilities and
23 are, in effect, perpetual holders of
24 Class 'A' shares in Manitoba Hydro for
25 which a return on investment should be

1 identified and 'paid' by Manitoba
2 Hydro."

3 10. MKO submits that the MKO First
4 Nations are both customers of Manitoba Hydro and historic
5 capital investors and "shareholders" in the development
6 of Manitoba's water powers and ought to be directly
7 engaged in any discussion of significant changes in
8 Manitoba's energy policies or in the financial,
9 operational and rate-setting policies of Manitoba Hydro,
10 including in respect of ensuring maximum value and
11 benefits from the sale of electricity to domestic
12 customers.

13 11. In respect of the proposed EIIR, MKO
14 notes that four "models" have been addressed: Manitoba
15 Hydro's proposed EIIR; the proposal advanced by Mr.
16 Chernick; the BC Hydro "Stepped Rate" and BC Hydro's
17 "System Expansion." MKO adopts Mr. Williams' able
18 summary and comparison of the various models based on the
19 evidence.

20 12. MKO agrees with the Coalition's
21 observation made during Mr. Williams' summation that
22 while much has been learned during the proceeding
23 regarding means to address the issue of embedded costs
24 rates being significantly lower than marginal costs in
25 respect of the potential impacts on Manitoba Hydro of

1 expanding GS Large customers; the Board ought not to
2 approve the EIIR as proposed by Manitoba Hydro. MKO also
3 supports the Coalition's recommendation that the Board
4 direct Manitoba Hydro to further consider the EIIR in the
5 context of a "needs and alternatives" analysis.

6 13. As to Manitoba Hydro's request that
7 the Board approve December 31, 2007 as the date for
8 determining the baseline load for the purposes of any
9 EIIR, MKO agrees that December 31, 2007 should be used to
10 set the load "cap" for the purpose of further refinement
11 of the EIIR proposal. In respect of any future
12 application by Manitoba Hydro of any baseline load
13 determination to GS Large customers, MKO recommends that
14 the Manitoba Hydro further develop the EIIR proposal
15 through the addition of an appeal mechanism in respect of
16 the customer baseline load as discussed at Tr. 463.

17 14. MKO also recommends that an
18 appropriate service extension policy be developed to
19 accompany any future EIIR in order to address the
20 potential for disproportionate cost of load expansions by
21 GS Large customers.

22 15. While taking no position on Mr.
23 Turner's comments at Tr. 1215 in respect of any
24 assurances made by Minister Selinger to Canexus, MKO is
25 satisfied that Manitoba and Canexus likely had

1 discussions regarding the energy requirements associated
2 with at least a portion of the expansion of Canexus's
3 operations in Brandon. Again, while taking no position
4 on the operations and expansion plans of Canexus, MKO is
5 concerned that Manitoba Hydro is asking the Barod to
6 approve an apparently discriminatory rate which will have
7 the practical effect of limiting the further expansion of
8 a single GS Large customer, which expansion may have been
9 implicitly, if not explicitly, endorsed by Manitoba.

10 16. For these and other reasons
11 enumerated by MKO during the GRA, MKO submits that Mr.
12 Turner's comments are further reasons why the Board ought
13 to receive clear direction from Manitoba before approving
14 the EIIR or any rate similar to the EIIR. In the
15 alternative, the Board should request and receive the
16 explicit endorsement of the Province of Manitoba for any
17 proposed EIIR prior to approving any such a rate. MKO's
18 recommendation No. 25 in the 2008 GRA stated that:

19 "MKO requests that Manitoba Hydro
20 provide confirmation from the Manitoba
21 government and to file the appropriate
22 documents in the upcoming proceeding
23 clearly showing that the Manitoba
24 government directs Manitoba Hydro to
25 seek approval for a new rate for new

1 and expanding energy intensive
2 industries."

3 17. Finally, MKO recommends that Manitoba
4 and Manitoba Hydro engage the Hydro-affected First
5 Nations, Manitoba Hydro customers and stakeholders in a
6 broad public policy initiative conducted under the
7 auspices of the Board to consider public and economic
8 development policy and rate-setting matters including:

- 9 - the "issue of embedded costs rates being
10 significantly lower than marginal
11 costs"
- 12 - inverted rates for all customer
13 classes;
- 14 - an EIIR;
- 15 - "quality of life";
- 16 - "economic expansion of industry";
- 17 - universally available and practically
18 accessible DSM programs provided by
19 Manitoba Hydro on a turnkey basis;
- 20 - means to ensure "that (the) potential
21 benefits of the Project are made
22 available in a practical manner to the
23 residents of each Reserve."

24

25 (END OF MKO WRITTEN SUBMISSION)

1 THE CHAIRPERSON: I also am advised that
2 we should probably note that the final version that came
3 through was dated today at 11:53 a.m., but counsel
4 advises that he cannot detect any difference from the one
5 that was received yesterday. So I think we can probably
6 take some comfort and assume that Ms. Ramage has had a
7 full opportunity to have a look at MKO's submission, but
8 I don't want to take any liberties on that.

9 Ms. Ramage, do you want to check with Mr.
10 Peters or...?

11 MS. PATTI RAMAGE: I can indicate we had
12 an opportunity to -- to look at the submission. I don't
13 know if I'd call it a full opportunity, but from our --
14 our fairly cursory look at it we didn't see any issues
15 raised that we won't be addressing in our final argument,
16 any issues of relevance that we won't be changing -- or
17 addressing in our final argument. I haven't seen this
18 other version, but I'm sure the Board would allow us, if
19 we did look at it and saw something that needed
20 addressed, to address that at a later date.

21 THE CHAIRPERSON: Yes, in writing if that
22 event occurs. Mr. Peters has had a quick look at this
23 latest version. He doesn't believe it's any different
24 than the one of yesterday but there may be some subtle
25 change in it that we'll detect at later review.

1 Okay. So now we'll call on Manitoba
2 Hydro -- Ms. Ramage, for Manitoba Hydro's closing
3 statement.

4

5 FINAL SUBMISSIONS BY MANITOBA HYDRO:

6 MS. PATTI RAMAGE: Thank you, Mr.
7 Chairman. Mr. Chairman, in your -- in your comments
8 immediately prior to Intervenor closing submissions, you
9 indicated that when Manitoba Hydro's turn to speak
10 arrived the Board wants to hear Manitoba Hydro comment on
11 its application and its response to any criticisms
12 raised.

13 You also indicated the Board expects
14 Manitoba Hydro to file -- to provide its views of the
15 strengths and weaknesses of any alternatives raised by
16 Intervenors during their closing submissions. Finally,
17 you asked Manitoba Hydro to share with the Board
18 information regarding any other alternatives Manitoba
19 Hydro may have considered in the course of developing or
20 advancing its application.

21 Manitoba Hydro intends to address each of
22 these topics in closing submission. We will be
23 addressing the urgent need for this application and the
24 rationale behind the Energy Intensive Industrial Rate.
25 We will discuss the various components of the proposal:

1 The 100 gigawatt hour threshold, the growth allowance,
2 the 1,500 gigawatt hour cap, and the Tier 2 rate. And we
3 will respond to the concerns and criticisms that have
4 been raised, not only during final submissions, but also
5 during the evidentiary portion of the hearing.

6 Next in our submission, we intend to
7 address comments regarding the sufficiency of the
8 information before this Board. Manitoba Hydro is
9 strongly of the view that there is sufficient information
10 before the Board to allow it to make its determination.

11 When we look at the breadth of information
12 this Board has before it at the close of the evidentiary
13 portion of the hearing, I believe the Board will agree
14 that it has the information it requires and can make its
15 determination in the best interest of electricity
16 ratepayers of Manitoba.

17 I will also be addressing the Board's
18 jurisdiction when exercising its rate approval function.
19 While this Board has a very specific and defined mandate,
20 with respect to Manitoba Hydro, the approval of rates, it
21 has been afforded broad discussion as to how it carries
22 out that function. While rates must be just and
23 reasonable and not unduly discriminatory, such assessment
24 is to be carried out in the context of the Board's
25 legislated mandate, which is to balance the needs of the

1 Utility and those of its diverse stakeholders.

2 I will also be reviewing the various
3 options Manitoba Hydro has considered in the course of
4 developing and presenting its application. I understand
5 the Board wants to hear about all the options considered,
6 and that's not a short list.

7 At this point it may be useful to look --
8 to note that we have distributed a list of options
9 considered, and with the Board's concurrence we will mark
10 this listing as Exhibit MH -- now, I've left a blank in
11 my notes. I'm wondering if Mr. Gaudreau could let us
12 know the number.

13 And while he's doing it I should also
14 point out that with that we also distributed an outline
15 of Manitoba Hydro's arguments, just so that you have a
16 scorecard to see how we're doing in terms of time.

17 Mr. Peters advises that he believes that's
18 Exhibit Manitoba Hydro 20.

19 THE CHAIRPERSON: Okay, subject to check.

20

21 --- EXHIBIT NO. MH-20: List of options considered by
22 Manitoba Hydro

23

24 CONTINUED BY MS. PATTI RAMAGE:

25 MS. PATTI RAMAGE: Now, I don't intend to

1 go into detail regarding each and every option
2 considered, as it's readily apparent that most are simply
3 not viable in Manitoba.

4 We will also be examining the options put
5 forth by Intervenors. None of these options came as
6 revelations to Manitoba Hydro. Their strengths and
7 weaknesses had already been assessed by the Corporation
8 before coming to the conclusion that the proposal you
9 have before you represents the optimum balance that can
10 be achieved in the circumstances.

11 After six (6) days of hearing, Board
12 counsel's -- I'm sorry, later six (6) days of hearing, as
13 well as argument from the Coalition, MIPUG and RCM/TREE,
14 this Board is well acquainted with the specifics of
15 Manitoba Hydro's rate proposal. I don't believe a
16 detailed description is necessary.

17 Manitoba Hydro's position is that the
18 Energy Intensive Rate is needed to address a serious
19 issue. As the Public Utilities Board clearly stated at
20 page 3 of its Order, 117 of '06, and I quote:

21 "When there are export opportunities at
22 prices in excess of rates charged to
23 Manitoba consumers, Manitoba Hydro can
24 increase its overall revenue and net
25 income by selling to its export

1 customers rather than the domestic
2 market.
3 When it does not, that is, Manitoba
4 Hydro sells the energy to a domestic
5 customer, which is always its first
6 priority, overall Manitoba Hydro's
7 revenue and net income are lower than
8 otherwise would be the case --
9 than otherwise would be the case.
10 Linkages between export potential,
11 Manitoba consumption, and average
12 industrial rates below average export
13 prices prompted Manitoba Hydro to
14 express concern related to large
15 industry energy intensive firms.
16 The Board's description of the problem
17 is a good description.
18 Simply put, when a small group of
19 customers uses an exponentially large
20 amount of power it reduces the amount
21 of power available for export and has
22 the effect of driving up costs for all
23 customers."
24 It's a relatively straightforward problem;
25 that is not to say that the solution is straightforward.

1 Manitoba Hydro is keenly aware that the solution requires
2 the balancing of multiple often competing interest.

3 But that is exactly what this Board is
4 empowered to do. This is the third hearing where we're
5 discussing the impacts of disproportionate load growth
6 amongst our largest customers yet we're still being
7 dragged back into the debate whether there is a problem.

8 The PUB has recognized the problem. It's
9 time to move on and focus on the solution. This isn't
10 the first time Manitoba Hydro's expressed its concerns
11 and the Board has been sympathetic. In Order 117 of '06,
12 the Board stated:

13 "In this Board -- [or] In this Order
14 the Board supports Manitoba Hydro's
15 concern and directs the establishment
16 of a new industrial class, one that
17 would include new industrial heather --
18 heavy energy consuming firms meeting a
19 to be defined profile with respect to
20 time-of-use, energy consumption, and
21 demand."

22 And there I refer to page 54 of that
23 order.

24 The Board's views on this subject were
25 further enunciated in Order 8 of '08, which dealt with

1 MIPUG's motion to sever hearing the Energy Intensive
2 Industry Rate from the 2008 GRA. There the Board said:

3 "Obliging Manitoba Hydro to
4 undercharge, considering market price
5 levels for energy, not only existing
6 large industry electricity load but
7 also new industrial load, whether from
8 new industry coming into the province
9 or by existing industry expanding
10 operations, would be to penalize
11 domestic, residential, commercial and
12 institutional customers to the benefit
13 of large industry. The penalty would
14 even extend to existing large industry
15 and would come in the form of higher
16 rates."

17 The Board's view is expressed in Order
18 117/'06, was that:

19 "Manitoba Hydro's revenue base,
20 financial situation and plans, and its
21 existing customers need to be afforded
22 protection against the risk that new or
23 materially expanded current industry
24 requires new electricity load at prices
25 which would drive the prices for all

1 customers higher, as well as the risk
2 of advanced construction dates for new
3 projects with potentially damaging
4 financial implications. Manitoba Hydro
5 sells electricity to large industry at
6 rates below the rates it could obtain
7 for sales to export market, and at
8 rates below those offered by other
9 North American jurisdictions."

10 And there I'm quoting from page 25 of that
11 Order.

12 Following a review of the issues in the
13 context of Manitoba Hydro's 2008 GRA, the PUB agreed with
14 Manitoba Hydro, stating:

15 "Identifying the problem is relatively
16 straight forward. The solutions are
17 more elusive."

18 And there I refer to page 317 of that
19 order.

20 Well, it's now 2009. The Coalition and
21 RCM/TREE agree with Manitoba Hydro's assessment that
22 there exists a significant issue, an issue of importance.
23 While at least one (1) MIPUG member acknowledged, during
24 the presentation portion of the hearing, the need to
25 address this problem and went as far as to support

1 Manitoba Hydro's proposed solution.

2 Those who are most negatively impacted by
3 the proposed solution still want to debate the existence
4 of the problem. It's time to move on and put a solution
5 in place. We cannot sit back and wait until this load
6 materializes to a greater extent than it already has.
7 Whether we're talking about a new 500 megawatt load, a
8 new 50 megawatt load, or a large expansion of an existing
9 customer, the fact remains these loads -- load increases
10 drive up costs to other customers. The solution needs to
11 be put in place so that industry knows the rules of the
12 game when making location and expansion decisions and
13 customers are adequately protected when those plans
14 materialize.

15 Now I'm going to focus next on the source
16 of the problem.

17 Manitoba Hydro has stated on numerous
18 occasions that large Energy Intensive Industry is being
19 attracted to Manitoba on a scale large enough to threaten
20 the Corporation's revenue position. The Coalition and
21 RCM/TREE appear to accept the accuracy of this statement.
22 MIPUG does not.

23 With PUB approval of new rate schedules to
24 domestic customers, effective July 1st, 2008, dependable
25 energy sales to major industrial customers typically earn

1 the Corporation about three point three (3.3) cents per
2 kilowatt hour. As noted in Manitoba Hydro's Application,
3 page 3, at line 13, the average value of firm long-term
4 export sales made during fiscal 2007/2008 was five point
5 two five (5.25) cents per kilowatt hour. This was down
6 from five point eight (5.8) cents per kilowatt hour the
7 previous year.

8 Even at the lower of these values,
9 however, a large energy intensive load of approximately
10 100 megawatts can reduce corporate revenue by
11 approximately \$14 million annually, thereby necessity --
12 necessitating a rate increase of approximately
13 1.4 percent to all domestic customers served by Manitoba
14 Hydro.

15 Manitoba Hydro expects that the
16 combination of higher fuel costs and internalized carbon
17 costs will lead to significant increases in the prices of
18 electricity in the markets into which Manitoba Hydro
19 exports. Absent substantial domestic rate increases
20 going forward, the gap between rates based on embedded
21 cost and expect -- and export prices is expected to
22 widen.

23 For the year 2008/2009 only, the levelized
24 marginal cost is estimated at five point seven eight
25 (5.78) cents per kilowatt hour. In the longer term,

1 Manitoba Hydro estimates its marginal cost of generation
2 and transmission to be in the order of seven (7) cents
3 per kilowatt hour, levelized over twenty (20) years. And
4 there I refer you to the application at page 3 line 21.

5 The indisputable fact is that virtually
6 all new loads added to the Manitoba grid expose the
7 Corporation to future costs which are greater than the
8 incremental revenue received from these loads at rates
9 applied to all classes of service; with perhaps the
10 exception of residential and small general service, and -
11 - and that exception I'll deal with later in my argument.

12 So the obvious question is: If all new
13 loads expose Manitoba Hydro to future costs, or most new
14 loads expose them to future costs, which are greater than
15 incremental revenue received from these loads, why is
16 this rate applicable only to Manitoba Hydro's largest
17 customers, those served at -- at greater than 30 kV and
18 who consume more than 100 gigawatt hours per year or
19 energy? The answer is: Large loads have a greater impact
20 on the need to advance new generation or on the reduction
21 of surplus available for export.

22 Industrial loads are growing much faster
23 than other Manitoba Hydro loads. The gap between revenue
24 received from these loads and the export revenue foregone
25 is larger and at least some of these loads are price

1 sensitive.

2 Manitoba Hydro Exhibit 17 demonstrates
3 very clearly the significance of large industrial load
4 increases on the need to advance new generation and the
5 impact on exportable surpluses. That exhibit
6 demonstrates that forecast loads served at over 30 kV for
7 the year -- I'm sorry, for the year; it'll be 2010/2011 -
8 - they increased by 1,000 -- 1,257 gigawatt hours from
9 2003 to 2007, as compared to an increase of only 422
10 gigawatt hours for all remaining domestic customers.

11 In percentage terms, the significance is
12 probably more obvious. With the forecast for GSL greater
13 than 30 kV increasing by more than 20 percent compared to
14 a little over 20 percent for the rest of customers.
15 General service large greater than 30 kV accounted for 75
16 percent of the increase in forecast loads. 75 percent.

17 As Mr. Chernick noted during his direct
18 examination:

19 "So the place where the forecast is
20 growing, where things are changing, and
21 where the energy use is -- is eating
22 into the opportunity for export sales,
23 seems to be primarily in the GSL class.
24 So again, starting where the -- the
25 load growth is occurring seems to be a

1 reasonable way to prioritize these rate
2 design issues."

3 And there we are referring to transcript
4 page 799, at lines 5 through 11.

5 Changes from one (1) load forecast to
6 another, as depicted in Exhibit Manitoba Hydro 17 are not
7 the only indicator of significantly more rapid growth by
8 the GSL greater than 30 kV class. As shown in Manitoba
9 Hydro's rebuttal evidence at page 27, the increase in
10 actual load of GSL greater than 30 kV, from 1998/'99 to
11 2007 to 2008, is 1,842 gigawatt hours, or 44 percent over
12 nine (9) years. Examination of the 2008/2009 load
13 forecast demonstrates that the load growth of these -- of
14 this group of customers accounted for 50 percent of total
15 domestic load growth during the nine (9) year period. 50
16 percent.

17 When we narrow our focus to the energy
18 intensive segment of the greater than 30 kV classes, we
19 see that the increase in load from 1998/'99 to 2007/2008
20 was 103 percent. This segment's load increase accounted
21 for 70 percent of the increase for the entire greater
22 than 30 kV general service large classes.

23 There I'm referring to page 27 of Manitoba
24 Hydro's rebuttal evidence. This was also discussed with
25 Mr. Williams at transcript pages 531 through 532.

1 Now, taking those numbers and contrasting
2 them with the residential class load, I note that the
3 residential class load increased by only 19 percent or
4 1,055 gigawatt hours over that same period.

5 Going forward, the general service greater
6 than 30 kV load is forecast to increase by 2,137 gigawatt
7 hours over the ten (10) period to 2017/2018. Again, from
8 the same load forecast, we see that this is 54 percent of
9 total domestic load growth forecast for the period. And
10 again, that contrasts with forecast load growth of only
11 851 gigawatt hours or 21 percent for the residential
12 class. Now MIPUG hasn't taken issue with Manitoba
13 Hydro's load forecast information as confirmed in
14 PUB/MIPUG-XXI.

15 Now I want -- I next want to deal with the
16 gap between domestic customer rates and export revenue,
17 which is the largest for the GSL greater than 30 kV load.
18 As discussed in Manitoba Hydro's application at page 4 at
19 line 11:

20 "During the 2008 GRA, Manitoba Hydro's
21 evidence was that the marginal cost to
22 serve a -- to service a large
23 industrial load was six point four
24 (6.4) cents per kilowatt hour, while
25 the marginal cost to serve a -- to

1 serve mass market [that being the
2 residential and small customers] was
3 about seven point two (7.2) cents per
4 kilowatt hour. At the same time, the
5 average revenue from a large industrial
6 was determined to be three point two
7 (3.2) cents per kilowatt hour, whereas
8 the average mass-market revenue was six
9 point four (6.4) cents per kilowatt
10 hour. Hence [and this is the important
11 part] the approximate revenue loss
12 associated with the diversion of a
13 kilowatt hour from the export market is
14 three point two (3.2) cents for -- for
15 an industrial customer, compared to
16 about point eight (.8) cents for a
17 mass-market customer."

18 Mr. Wiens concluded at transcript page 90,
19 line 2, that:

20 "It is possible that increases in
21 residential or general service small-
22 demand loads may actually reduce
23 revenue requirement, while an increase
24 to a general service large load will
25 almost certainly increase revenue

1 requirement."

2 Summing the effects of their significant
3 contribution to load growth with the relative gap between
4 domestic rates and marginal costs suggests that load
5 expansion by GSL greater than 30 kVs, especially in the
6 energy intensive industry, will account for a significant
7 majority of the cost of diversion of electrical energy
8 from the export to the domestic market over the next five
9 (5) years. The proposed Energy Intensive Rate is
10 intended to mitigate this impact, while still providing
11 for growth of all industry within the province.

12 In their evidence, Messrs. Bowman and
13 McLaren, have atten -- attempted to dismiss Manitoba
14 Hydro's view that large industrial load growth,
15 particularly of energy intensive industry, at rates
16 significantly in excess of load growth of other domestic
17 classes, is a reason for concern.

18 To support their denial of this concern
19 they cite four (4) factors. Manitoba Hydro's perspective
20 is that none of these four (4) factors alleviates the
21 concerns regarding the growth of large, energy intensive
22 loads being driven at least in part by low rates for firm
23 electricity. And I'll deal with each of those four (4)
24 points in turn.

25 MIPUG suggested, in its closing

1 submission, that Manitoba Hydro had failed to provide
2 evidence in support of its premise that recent growth was
3 unexpected or extraordinary. Manitoba Hydro has never
4 suggested that recent gross -- growth was not
5 anticipated, nor that failure to anticipate growth is a
6 premise for establishing the rate.

7 That the GSL greater than one hundred
8 (100) load has not grown any more rapidly than was
9 forecast in 1990 -- 1998, as pointed out in MIPUG's pre-
10 filed evidence, is not a relevant consideration, with
11 respect to this issue.

12 The concern is not whether the load
13 increase may or may not have been forecast in some
14 previous load forecast, but rather that the load is
15 growing more rapidly than any other load in this
16 province, and at least some of that load is attributable
17 to low rates -- or some of that growth is attributable to
18 low rates.

19 Manitoba Hydro's low -- load forecast for
20 major customers substantially reflects the planning
21 information provided to Manitoba Hydro by the customers
22 themselves. The load forecast itself is completely
23 neutral as to whether or not these rates should be of
24 concern. These points are clearly set out at page 14 of
25 Manitoba Hydro's rebuttal, and also by Mr. Wiens at page

1 Mr. Williams in his closing submission. And that is that
2 most of this reduction is forecast due to existing or
3 perspective new customers reconsidering their plans, in
4 light of Manitoba Hydro's well publicized intent to seek
5 approval of the Energy Intensive Rate.

6 Manitoba Hydro's rebuttal evidence found
7 at page 15 refutes my -- refutes MIPUG's suggestion that
8 residential loads have increased traumatically with --
9 and with that suggestion, the implication being that
10 Manitoba Hydro and the PUB should be more concerned about
11 residential load growth. The statement is misleading
12 because it ignores the impacts of weather.

13 When the actual residential loads are
14 adjusted to reflect weather variability, the annual load
15 increase between 2005/'06 and 2007/'08 averages 1.8
16 percent per year. Similarly, the characterization of
17 residential load forecast increase, in Bowman and
18 McLaren's pre-filed evidence, depicts absolute forecast
19 load increases and changes from one forecast to another.

20 This characterization masks the fact that
21 current forecast increases to residential loads are
22 expected to be about 1.2 percent over the next ten (10)
23 years, significantly below the current forecast for
24 industrial loads.

25 In summary, the evidence on the record in

1 this proceeding is clear and unequivocal. Recent and
2 projected load growth by large energy intensive industry
3 is disproportionate to other classes of service and has
4 had a significantly greater impact on Manitoba Hydro
5 revenues and the cost that must be recovered from all
6 domestic rate classes. As both this Board and Manitoba
7 have stated over the past several years, there is a real
8 issue here and it must be dealt with.

9 Now before moving onto the specifics of
10 Manitoba Hydro's proposal I would like to address the
11 role of price sensitivity, with respect to new or
12 expanding loads in Manitoba.

13 The epecee (phonetic) of a price signal is
14 reflected not only in the forecast of load that may be
15 subject to it, but also in the decisions of companies
16 that choose to locate elsewhere or defer expansion
17 because of it.

18 Manitoba Hydro testified that it is aware
19 of one (1) such load that has abandoned plans to expand
20 in Manitoba owing to the potential introduction of this
21 rate, and has chosen to upgrade an existing inefficient
22 facility that was originally scheduled to close within
23 four (4) to six (6) years in a higher priced electricity
24 market.

25 Manitoba Hydro's experience of recent

1 years, as well as the declared location drivers of one
2 (1) of the MIPUG members on the record at the 2008 GRA
3 proceeding, are a testament to the price sensitivity of
4 at least some large industrial loads in Manitoba.

5 Mr. Turner of Canexus provided the
6 following as part of his presentation.

7 "Most of the more recent expansions
8 were awarded to the Brandon facility
9 due to the fact that Manitoba Hyd --
10 Manitoba has had a history of very
11 stable and cost effective power rates.
12 This has been a positive factor in
13 convincing our Board of Directors that
14 expansion should occur in Manitoba."

15 He also said:

16 "Increasing uncertainty, with respect
17 to the continued stability of hydro
18 pricing over the past two (2) to three
19 (3) years, has caused us to seriously
20 re-evaluate our -- our options, in
21 order to justify a further expansion of
22 the Brandon plant."

23 And there I'm referring to the 2000 and --
24 GRA, transcript pages 2791 through 2793; it's where those
25 two (2) quotes were selected from.

1 So on the basis of the historical record,
2 it is clear that low energy prices have driven location
3 and expansion decisions of large Energy Intensive users
4 and will continue to do so, absent the rate modification
5 proposed by Manitoba Hydro.

6 It has been suggested that because most of
7 the load that will be subjected to the new rate are
8 pipelines, and that because pipelines have little choice
9 in their location decisions, the PUB ought to reject the
10 notion that this rate sends an appropriate price signal.
11 First off, I would comment that rarely in rate making do
12 we find a one (1) size fits all solution. So while the
13 delivery of price signals is but one (1) of many
14 objectives of a rate, we don't abandon the concept or the
15 rate where one (1) type of business within the customer
16 group is not easily able to respond to the price signal.

17 Manitoba Hydro acknowledges that pipeline
18 loads while extremely energy intensive may have less
19 choice than other loads, such as the chemical industry,
20 in terms of their location or expansion, because changes
21 in energy costs may be offset, to some degree, by the
22 economies of the initial location of the line. However,
23 as Manitoba Hydro noted in its rebuttal evidence, in the
24 past pipelines can and have made location decisions to
25 bypass Manitoba and also decisions to use fuel for their

1 compressor stations other than electricity.

2 Mr. Dudar noted at transcript 270 at line
3 200 -- or through 271, that until six (6) or seven (7)
4 years ago the pipeline in Ile des Chenes used natural gas
5 for compression, but changed because the natural gas was
6 more valuable as a commodity. That the Provincial
7 Government may have encouraged some pipelines to use
8 electricity back in 1965 is the type of situation that
9 justifies setting baselines not lower than current usage,
10 but it does not justify unlimited access to embedded
11 rates to the detriment of the Corporation's revenue
12 position.

13 As pointed out by Mr. Wiens, at transcript
14 page 674, line 5 through 9:

15 "These companies have had the benefit
16 of Manitoba Hydro's embedded rates for
17 a very long time. The fact is,
18 pipelines use a tremendous amount of
19 electricity. Customers using
20 electricity in these quantities are
21 increasing the cost of electricity to
22 other Manitoba customers. Pipelines
23 are regulated and they can pass their
24 prudently incurred costs onto the
25 parties who use their services. It's

1 not fair to ask Manitoba consumers to
2 pay higher rates to subsidize the cost
3 of pipelines transporting another
4 energy form through our province."

5 Next, I'm going to discuss determination
6 of the baseline.

7

8 (BRIEF PAUSE)

9

10 MS. PATTI RAMAGE: In Order 117 of '06,
11 the PUB suggested, and I'm quoting:

12 "Manitoba Hydro develop its Energy
13 Intensive Industry proposal, taking
14 into account that existing industry
15 came, remained, and expanded in
16 Manitoba, with certain assumptions as
17 to energy pricing and supply."

18 And that's at page 55 of that order.

19 In accordance with this guiding principle,
20 Manitoba Hydro has proposed that existing and new
21 industrial customers served at 30 kV and above, who, when
22 aggregated with their Manitoba-based affiliated companies
23 use 100 gigawatt hours or more of energy annually, be
24 entitled to their current energy consumption at the
25 initial block general service large energy rate; that is

1 the heritage rate. Only that consumption above the
2 defined baseline, or CBEL, as I'll be referring to it,
3 and for the transcript that's C-B-E-L, all capitals.
4 That was a Byron Williams moment I just had.

5 The CBEL will be subject to the tail block
6 energy rate. A new customer CBEL will automatically be
7 set at 100 gigawatt hours. The existing customers'
8 initial CBEL will be calculated based on the maximum
9 twelve (12) consecutive monthly energy -- the maximum
10 monthly twelve (12) consecutive month energy consumption
11 for the three (3) years ended March 31st, 2008.

12 Energy associated with previously
13 implemented Power Smart energy reduction projects, non-
14 made-up curtailable load energy, load displacement
15 generation energy, and future energy consumption
16 associated with energy efficient solutions for
17 environmental compliance, will be added to the CBEL, up
18 to a maximum CBEL of 1,500 gigawatt hours. The CBEL will
19 then be subject to revision annually, up to a maximum
20 CBEL of 1,500 gigawatt hours, to reflect long-term
21 changes affecting the customer's plant, and in order to
22 ensure that the CBEL continues as an appropriate baseline
23 to encourage electricity conservation and efficiency of
24 use, but while not discouraging economic growth.

25 The 100 gigawatt hour threshold is

1 reasonable, because, while it captures only ten (10)
2 existing customers, those customers are responsible for
3 94 percent of the load of all domestic customers served
4 at 30 kVs or higher. And there I refer to transcript
5 page 477, at line 16.

6 Mr. Williams quite accurately pointed out
7 that the rate doesn't apply to 94 percent of the load.
8 The significance is that 94 percent of that load is
9 facing a price signal when making consumption and
10 efficiency decisions.

11 As shown in Manitoba Hydro's response to
12 PUB/Manitoba Hydro 8D, during the five (5) years ending
13 March 31st, 2008, customers with energy use in excess of
14 100 gigawatt hours, have accounted for virtually all the
15 growth in load of customers served above 30 kV; that is
16 99.5 percent of that growth.

17 As noted by Mr. Warden, at page 79 of the
18 transcript:

19 "The hundred gigawatt hour threshold
20 effectively zeros in on the primary
21 issue. At the same time it avoids the
22 administrative complexities and
23 associated costs of expanded -- of --
24 of an expanded application of the
25 rate."

1 These were outlined in detail during a
2 discussion Mr. Williams had with Mr. Dudar, commencing at
3 page 433. In that discussion Mr. Dudar agreed with Mr.
4 Williams, in particular at page 450, that:

5 "The -- the administrative costs
6 associated with..."

7 I'm sorry.

8 "The administrative costs associated
9 with this rate proposal to the
10 remaining -- to the remaining members
11 of their class would be time consuming.
12 They would be significant and they
13 would be onerous. These costs relate
14 to developing baselines and -- and
15 monitoring baselines, monitoring and
16 communicating available growth
17 allowances, evaluating DSM and
18 environmental compliance projects."

19 And there I refer to page 433.

20 For example, Manitoba Hydro reviewed the
21 implications of reducing the threshold from 100 gigawatt
22 hours to 50 gigawatt hours a year in its response to
23 PUB/Manitoba Hydro 8D. It would only increase the amount
24 of energy billed at the second block rate over the next
25 twenty (20) years by 4 percent. And that's by lowering

1 it from hundred gigawatt hours to fifty (50), would get
2 4 percent. That's from nineteen (19) -- we forecast from
3 19,200 gigawatt hours to 20,000 gigawatt hours.

4

5 (BRIEF PAUSE)

6

7 MS. PATTI RAMAGE: Manitoba Hydro
8 implemented the 1,500 gigawatt hour maximum energy
9 consumption threshold as a mechanism to curb rapid growth
10 in energy use at low embedded cost-based industrial
11 rates.

12 It's important to have perspective on just
13 how large a 1,500 gigawatt hour load is. At page 79 of
14 the transcript, Mr. Warden testified that Manitoba
15 Hydro's single largest customer consumes approximately
16 1,450 gigawatt hours per year. By comparison -- and
17 these are all customers who use a tremendous amount of
18 power; they're the pipelines, the mines, the steel mills
19 -- by comparison, the tenth largest customer consumes 140
20 gigawatt hours or less than 10 percent of the 1,500
21 gigawatt hour cap. The twenty-fifth largest customer is
22 at 22.5 gigawatt hours; that's 1.5 percent of that cap.

23 If the -- a customer at the 1,500 gigawatt
24 hour level was afforded the 3 percent growth allowance,
25 Manitoba Hydro testified that the Corporation's revenue

1 loss by year 5 would be over \$5 million per year, and the
2 accumulated loss in those first five (5) years would be
3 in the order of \$15 million. And there I refer you to
4 transcript, page 79 through 80.

5 Manitoba Hydro designed the cap to ensure
6 that all customers, even the one whose load is far in
7 excess of all other large loads, were treated the same,
8 with respect to the application of heritage rates to
9 grandfathered load. Despite the fact that one (1)
10 customer's load is not the same as the others, by virtue
11 of its size, its impacts on the revenue position of the
12 Corporation, and ultimately the costs that must be
13 recovered from other ratepayers, despite those
14 differences that customer was nevertheless treated the
15 same, with respect to the provision of heritage rates.
16 But a line had to be drawn somewhere.

17 Manitoba Hydro does not apologize for
18 setting the cap based on the load of its largest
19 customer. This Board expressed a desire to see that
20 existing customers not be affected by the new rate for
21 their established load. The Board did not say existing
22 customers were entitled to unlimited growth. The Board
23 was speaking about existing load.

24 The 1,500 gigawatt hour cap is generous
25 and it accords with this Board's stated desire to protect

1 the energy consumption of existing customers, so that
2 their incremental growth would be potentially impacted by
3 the new rate.

4 And there is certainly regulatory
5 precedent for drawing lines like this. Manitoba
6 Hydro/MIPUG-9 discloses that Tariff 6 was established
7 following negotiations amongst multiple stakeholders.
8 The evidence goes on to state that the threshold of a 150
9 MVAs was viewed as striking a balance between allowing
10 new customers to share in BC Hydro's low-cost power and
11 protecting existing ratepayers from unduly subsidizing
12 the needed capital costs of providing power to new
13 industrial customers. There was no mathematical formula
14 applied to derive this limit; it was a matter of
15 judgment.

16 Manitoba Hydro has applied its judgment
17 with a view to striking that same balance through the
18 hundred gigawatt hour per year threshold, and the 1,500
19 gigawatt hour per year cap.

20 The minimum value of 100 gigawatt hours
21 was chosen based on the size of existing customer load
22 profiles and size of new companies that have recently
23 moved to the province. The 1,500 gigawatt hour cap was
24 chosen to shield all potentially impacted customers
25 existing energy consumption, including the largest

1 customer, from the new rate, and have it only apply to
2 the incremental new energy consumption.

3 The 1,500 gigawatt hour cap also
4 recognizes that there's a limit to the amount of
5 subsidized energy that Manitoba Hydro will provide to any
6 one (1) customer in the province. Manitoba Hydro used
7 its best judgement to determine levels that were
8 reasonable, based on Manitoba Hydro's current customer
9 base, and which mitigated future rate impacts to all
10 ratepayers associated with the rapid expansion of a few
11 industries.

12 The proposed growth allowance allows for a
13 fair and equit -- equitable treatment of all industrial
14 customers affected by this proposal. These customers
15 require growth options to remain competitive. The
16 largest of these customers already enjoy a huge,
17 lucrative advantage by virtue of the non-discriminatory
18 treatment of their exceptionally large existing heritage
19 loads.

20 The proposed allowances, coupled with the
21 1,500 gigawatt hour cap allow for fair treatment to all.
22 It will manage and control energy growth in the near
23 term, with the goal of maintaining the export surplus
24 advantage, while allowing for domestic growth within
25 prescribed bounds that meet most customer's growth needs

1 for the foreseeable future.

2 It is certainly not Manitoba Hydro's
3 intent to unduly constrain load growth in the province.
4 We do, however, need an effective rate structure to
5 ensure that growth is prudently managed for the benefit
6 of all of our stakeholders.

7 The growth allowance strategy was
8 developed based on customer input regarding their
9 expansion and growth plans for the next five (5) to ten
10 (10) years. Manitoba Hydro consulted extensively with
11 its customers to develop a baseline proposal that
12 provided reasonable opportunity for reasonable growth.
13 It was one (1) year ago that we were here dealing with a
14 motion by MIPUG that Manitoba Hydro hadn't consulted
15 enough. A year later, we're hearing that because
16 Manitoba Hydro consulted, because Manitoba Hydro listened
17 and because Manitoba Hydro acted where it thought
18 reasonable, that such actions resulted in personal
19 discrimination.

20 Not all growth plans could be
21 accommodated; the fact is some customers are different.
22 They are exponentially larger or they want to expand in a
23 manner so much more rapid than the norm that we cannot
24 accommodate those types of plans. The resulting impacts
25 on revenue are too much to ask other customers to bear.

1 Overall, system load growth is
2 approximately 2 percent per year. We have afforded
3 industrials more than that level of growth at heritage
4 rates. From Manitoba Hydro's perspective, that is more
5 than fair.

6 Mr. Chernick, on behalf of RCM/TREE,
7 opposes Manitoba Hydro's proposal to provide a growth
8 allowance to customers' baseline energy. At page 10 of
9 his prefiled evidence, Mr. Chernick called upon the Board
10 to reject Manitoba Hydro's proposal to increase the
11 baseline and argued that in subsequent cases the Board
12 should gradually reduce the baseline.

13 Manitoba Hydro has not proposed a
14 declining baseline because it deliberately chose, for the
15 reasons I've just outlined, to allow some degree of
16 growth at embedded cost-base rates for all customers
17 subject to the rate. Manitoba Hydro acknowledges that it
18 may be appropriate to expose more customers to the higher
19 rate for some of their load, but believes the best way to
20 do this is through the introduction of a general inverted
21 rate for all customers in the GSL classes. For those
22 customers who are affected by the Energy Intensive Rate,
23 this could involve a one (1) time reduction in the
24 baseline, along with a reduction in the first tier rate,
25 such that the customer who did not change load would be

1 revenue neutral.

2 Manitoba Hydro agrees, however, with the
3 Coalition, that we need time to reflect on this and to
4 develop a proposal before the Board weighs in on how or
5 when this should be accomplished.

6 No party took issue with the application
7 of Power Smart credits to baseline. RCM/TREE, however,
8 has advocated that Manitoba Hydro be required to audit
9 these savings for measures implemented prior to 1999.

10 When including credits for previously
11 implemented Power Smart energy saving measures, Manitoba
12 Hydro chose to accept that early adopters who elected to
13 invest in DSM measures, would not easily accept
14 underperforming systems and would maintain or improve
15 them as required.

16 Mr. Dudar testified that Manitoba Hydro
17 would have been aware of any major systems that were
18 installed and were not performing.

19 Further, Manitoba Hydro provided estimates
20 that less than 10 percent of the efficiency measures that
21 were previously installed may have been decommissioned or
22 removed. The need to audit all of the previously
23 implemented measures were seen as another administrative
24 burden without significantly improving the performance of
25 the rate.

1 Manitoba Hydro believes that the process
2 for establishing the maximum twelve (12) consecutive
3 months of energy consumption for the purposes of setting
4 the CBEL is relatively mechanical and there's no need for
5 the PUB to review each baseline. As indicated by Mr.
6 Warden, at page 463 of the transcript, Manitoba Hydro
7 would not oppose an appeal process being in place should
8 an issue arise.

9 The same appeal process could apply to the
10 assessment and quantification of previously implemented
11 Power Smart, or other energy efficient measures, and
12 future environmental projects, should disputes between
13 the customer and Manitoba Hydro arise.

14 Now on this note, Manitoba Hydro wishes to
15 briefly address statements made by Canexus during the
16 presentation portion of the hearing.

17 Statements were made to the effect that
18 Manitoba Hydro gave assurances to Canexus that certain
19 energy efficiency improvements would be eligible for DSM
20 credits. These statements were made after the Manitoba
21 Hydro panel stood down and were not referenced in the
22 pre-filed evidence of MIPUG's experts, and Manitoba Hydro
23 has not been afforded the ability to respond.

24 Statements during presentation are not
25 evidence and have not been tested in any manner.

1 I can advise that Manitoba Hydro disputes
2 that any such assurances were given. However, if
3 Canexus, or any other customer, have an issue with how
4 their baseline or Power Smart credits are calculated,
5 their issues could be resolved using the appeal
6 mechanism. Individual concerns, without both sides of
7 the story having been heard or tested, should not form
8 the basis for changing the principles of a sound
9 proposal.

10 In Manitoba Hydro's earlier intensive rate
11 proposal, the second tier price was to reflect marginal
12 cost and was based on Manitoba Hydro's forecast of market
13 prices. It became apparent during the course of that
14 hearing that significant issues existed with respect to
15 providing the PUB and Intervenors with sufficient
16 information to gain acceptance of the Corporation's
17 forecast, without compromising Manitoba Hydro's need to
18 protect the most market -- market sensitive information.

19 In Order 116 of '08, at page 328, the
20 Board stated that it, quote, is:

21 "...concerned about the use of forecast
22 export prices as opposed to actual
23 export prices in the determination of
24 marginal costs, and encourages Manitoba
25 Hydro to explore and advance other

1 options." End quote.

2 The PUB's preference for use of actual
3 versus forecast pricing was further demonstrated in
4 Directive 19 Sub E of Order 166 of '08, where the PUB
5 directed Manitoba Hydro re-file its Cost of Service Study
6 using, quote:

7 "...the most recent actual, not
8 forecast, export prices, to establish
9 export revenue in the Cost of Service
10 Study."

11 With this in mind and in the interest of
12 simplicity and transparency Manitoba Hydro has proposed
13 that a proxy be employed for marginal cost that is the
14 average price of firm extra provincial sales during the
15 pre -- the previous two (2) fiscal years, which in this
16 instance is March 31st, 2008. That average price was
17 fifty-five dollars and twenty-seven cents (\$55.27) per
18 megawatt hour.

19 RCM/TREE takes the position that the
20 average price of extraprovincial sales over the past two
21 (2) years is not a good indicator of marginal cost, and
22 suggests that the second block rate be based on either
23 levelized energy cost of Wuskwatim, or if Wuskwatim is
24 not cost effective, on Manitoba Hydro's projection of
25 market prices.

1 If the former price were adopted the
2 second block rate would be about seven point four (7.4)
3 cents per kilowatt hour, which is 54 percent higher than
4 the -- then the rate Manitoba Hydro was proposing. If a
5 projection of market prices were to be adopted, the
6 second block rate would be approximately six point six
7 (6.6) cents per kilowatt hour, or some 38 percent higher
8 than Manitoba Hydro's proposing. And there we refer to
9 page 17 of Mr. Chernick's pre-filed evidence.

10 Manitoba Hydro has stated that it's not
11 impose -- opposed, in principle, to adopting a more
12 forward looking approach to marginal cost in designing
13 the rate. However, to do this, two (2) practical
14 obstacles need to be overcome:

15 The first is that a mechanism would have
16 to be found to provide sufficient information to all
17 parties, particularly the Board, to accept the marginal
18 cost forecast without compromising Manitoba Hydro's need
19 to protect the most marketed -- market sensitive
20 information.

21 Second, in the absence of some capability
22 to review the economic benefits associated with major
23 load -- load expansion, the differential price, with
24 respect to other utility rates, is simply extreme. As
25 noted in Manitoba Hydro's rebuttal evidence, at page 22,

1 Manitoba Hydro's proposed second block is already 98
2 percent higher than the rate based on embedded cost. Mr.
3 Chernick's recommended second block rate is as much as
4 205 percent higher than the existing rate.

5 Another option that's not advocated by any
6 party, but which was reviewed during the course of Mr.
7 Ostergaard's evidence, would be a methodology similar to
8 BC's second tier rate calculation methodology. In BC
9 they use the average price paid to new independent power
10 producers under BC Hydro's most recent call for tenders.
11 This is obviously a non-starter in Manitoba.

12 Mr. Ostergaard confirmed, at transcript
13 pages 1166 through 1169, that there are forty-five (45)
14 IPPs operating in BC. An open -- open tender process was
15 used to elicit offers to sell energy and BC Hydro
16 ultimately awarded thirty-eight (38) separate contracts
17 following that process.

18 BC Hydro's Tier 2 price of seven point
19 three six (7.36) cents per kilowatt hour was based on the
20 average of those thirty-eight (38) contracts. AS all
21 parties to this room are well aware there's only one (1)
22 IPP presently operating in Manitoba. There can be no
23 average price per se and that price is negotiated for a
24 specific product: wind. And that -- and in the market
25 Manitoba Hydro operates in, it's considered commercially

1 sensitive information and not publicly available.

2 BC's development of an internal
3 competitive market for independent power producers
4 represents a significant difference from the Manitoba
5 situation. A similarity between the provinces, at least
6 from a power marketing perspective, is the need to hold
7 details of export contracts and the forecasts of export
8 prices used by power marketers when negotiating contracts
9 in confidence.

10 Mr. Ostergaard confirmed that the
11 transactions entered into by BC Hydro's marketing
12 subsidiary, Powerex, are not reviewed by the BCUC. While
13 BCUC may review energy delivered under those contracts
14 and the revenues which flow to BC Hydro, pursuant to its
15 jurisdiction over BC Hydro, the regulator does not see,
16 nor is there public review of Powerex's export contracts
17 or specific pricing information.

18 Manitoba Hydro is a net exporter of power.
19 Arms -- arm's length counterparties negotiate power
20 purchase contracts with Manitoba Hydro in a competitive
21 market. While there are confidentiality issues
22 associated with using the Corporation's forecast of
23 export prices, the same issues do not, for the most part,
24 apply to prices achieved in the immediately past. As
25 noted, the PUB itself expressed a preference for using

1 actual prices, as opposed to forecasts.

2 The Tier 2 rate derived using this
3 methodology, four point eight eight (4.88) cents per
4 kilowatt hour for customers served at 30 to 100 kV, and
5 four point seven nine (4.79) cents per kilowatt hour for
6 customers served at greater than a hundred kV, is in line
7 with the prices charged by other Canadian utilities to
8 large industry.

9 For example, Manitoba Hydro/MIPUG-3
10 discloses that a 50 megawatt or 30.6 gigawatt hour load
11 with a load factor of 85 percent would pay five point one
12 one (5.11) cents per kilowatt hour, if served by
13 SaskPower in Saskatchewan -- and that's inclusive of a
14 demand charge, which mean -- the rates I've quoted from
15 Manitoba Hydro are not -- they would pay nine point six
16 nine (9.69) cents per kilowatt hour, if served by EPCOR
17 Energy in Alberta, again, inclusive of a -- of a demand
18 charge; and four point four seven (4.47) cents per
19 kilowatt hour if served by Hydro Quebec, also inclusive
20 of a demand charge and assuming the load is not captured
21 by their 50 megawatt limit.

22 In BC the first 90 percent of baseline,
23 two point four six two (2.462) cents per kilowatt hour
24 with the remainder at seven point three six (7.36) cents
25 with the remainder at seven point three (7.3) -- seven

1 point three six (7.36) cents per kilowatt hour includes
2 the demand charge.

3 Oh, I'm sorry, I -- Mr. Wiens points out
4 I'm incorrect. The demand charge would still have to be
5 added to that rate as -- as was the case with the rates I
6 quoted from Manitoba Hydro.

7 As indicated earlier, Tier 2 -- the Tier 2
8 rate proposed by Manitoba Hydro is a proxy for marginal
9 cost, based on the average price of dependable energy,
10 extraprovincial sales during the previous two (2) fiscal
11 years, and is not based upon a forecast of Manitoba
12 Hydro's true marginal costs.

13 Over the past two (2) years the average
14 price for all dependable energy sales was fifty-five
15 dollars and twenty-seven cents (\$55.27) per megawatt
16 hour, or five point five three (5.53) cents per kilowatt
17 hour. From this price Manitoba Hydro has deducted its
18 demand charge, that is, the five point four zero (5.40)
19 demand charge, divided by seven hundred and thirty (730)
20 hours in a month; is deducted from the fifty-five dollar
21 and twenty-seven cent (\$55.27) price to get the Tier 2
22 energy rate of four point seven nine -- seven nine (4.79)
23 cents per kilowatt hour for customers served at greater
24 than 100 kVs.

25 A small adder is applied to the rate for

1 customers served between 30 and 100 kVs to account for
2 losses, such that their Tier 2 rate is four point eight
3 eight (4.88) cents per kilowatt hour.

4 And as I just noted, Manitoba Hydro does
5 not disagree with RCM/TREE that the levelized energy of
6 cost of Wuskwatim is a more accurate indicator of March
7 -- of Manitoba Hydro's marginal cost. Commenting on Mr.
8 Chernick's stated preference for using a forward looking
9 price, such as export forecasts or the levelized cost of
10 Wuskwatim, Mr. Surminski stated, at page 767:

11 "Yes. And I agree with that statement.
12 Forward looking is the more appropriate
13 way to set value for these industrial
14 loads."

15 As RCM/TREE has further pointed out, using
16 Wuskwatim costs as a basis, those marginal costs are
17 significantly higher than the fifty-five dollar and
18 twenty-seven cents (\$55.27) per -- per megawatt hour
19 proposed -- proxy, proposed by Manitoba Hydro. However,
20 for the reasons we outlined a moment ago, Manitoba Hydro
21 has chosen not to base the rate on a true forward looking
22 marginal cost.

23 As a result, any argument challengi --
24 challenging the rate, as if it were based on a
25 traditional measure of marginal cost, is not relevant.

1 As indicated earlier, using Wuskwatim costs or market
2 forecasts as an indicator of Manitoba Hydro's marginal
3 cost, would have resulted in a rate of at least
4 38 percent higher than the rate being proposed. This
5 would not accord with the principles of gradualism Mr.
6 Williams spoke of.

7 It was pointed out Mr. Warden at page 784
8 of the transcript:

9 "Manitoba Hydro's proposed rate is only
10 a proxy and a conservative one at that.
11 It is intended to be a compromise
12 between rates currently being charged
13 and Manitoba Hydro's true marginal
14 costs."

15 The Board heard the Tier 2 rate challenged
16 on the basis that the breakdown between demand and energy
17 in the firm export contracts is not available, and its
18 specific contract detail is necessary to test the
19 appropriateness of the proposed rate.

20 The proposition was put forth in cross-
21 examination, although I didn't hear anything in final
22 submissions, that with the detailed contract price
23 revisions, capacity charges could be extracted and the
24 remaining energy prices would be reflective of marginal
25 cost of energy and parties could then test the proposed

1 rate on that basis.

2 However, as we've stated already, the
3 proposed rate is a proxy, not based on a forward looking
4 true marginal cost. Thus, having the capacity and energy
5 prices from each of the contracts is of no benefit in
6 testing the proposed rate. Further, as Mr. Cormier
7 pointed out at transcript, page 315 through 316:

8 "When Manitoba Hydro negotiates a price
9 they start with an all-in price and
10 work backwards. Manitoba Hydro's
11 concern -- its main concern is not
12 about the split as long as at the end
13 of the day Manitoba Hydro gets its
14 required dollars per megawatt hour.
15 The split is more for the
16 counterparty's benefit."

17 And I specifically reference page 317,
18 line 9 through 17, in that regard.

19 The Board made it clear that it wanted to
20 see transparency in the Tier 2 rate. The proposed rate
21 is based on Manitoba Hydro's internal accounting system
22 that is used for management purposes. To such extent the
23 numbers need to be verified with individual, dependable
24 energy sales. Manitoba Hydro files the revenues and
25 energy volumes associated with those contracts with NEB,

1 which makes the information publicly available on its
2 website. Through that transparent process it is possible
3 to verify, within reason, the established Tier 2 rate.

4 Mr. Warden told us he hadn't expected the
5 derivation of the rate to be a significant issue; "That's
6 a relatively straight forward process." And there I
7 refer to transcript, page 612.

8 And to demonstrate this, Manitoba Hydro
9 provided details regarding the calculation of the fifty-
10 five dollar and twenty-seven (\$55.27) amount, including
11 the adjustments made in Exhibit Manitoba Hydro 11. The
12 rate is not going to change without this Board's approval
13 and Manitoba Hydro can certainly repeat this process in
14 the future.

15 When evaluating Manitoba Hydro's proposal,
16 I ask the Board to be mindful of the fact that regulation
17 only exists as a substitute for competition, where -- in
18 situations where competition doesn't exist. Regulation
19 does not purport to be a better indicator of a fair price
20 than that derived in a competitive market. In this case
21 the Tier 2 rate is based on the price arrived at in a
22 very competitive energy market. That the Energy
23 Intensive Industry customers cannot participate in the
24 market is no dis -- reason to discount the validity of
25 prices negotiated between arms length parties.

1 It's of note that in BC, where customers
2 do have access to power produce outside the province,
3 using the -- using BC Hydro's open access transmission
4 tariff, or to purchase their power directly from IPPs,
5 not a single customer exercised this option and has
6 instead opted to pay the Utility's Tier 2 rate. And
7 there I refer you to transcript page 1171.

8 Tie-line limits were discussed at length.
9 Manitoba Hydro provided evidence that indicated that tie-
10 lines are not a limiting factor in making dependable
11 exports. That is, those sales are dependent on the
12 availability of dependable energy and accreditable
13 capacity. For example, I refer to transcript page 84,
14 beginning at line 5, or transcript page 332, at line 16,
15 and at transcript page 357, at line 4.

16 Manitoba Hydro provided extensive evidence
17 in response to Information Requests on the high
18 availability of tie-line space for interruptible sales.
19 Mr. Cormie stated on numerous occasions that tie-line
20 limits restricts sales much less than 10 percent of the
21 time. For example, at page 349, where he said -- where
22 he went as far as saying:

23 "Probably more likely 5 percent of the
24 time."

25 Manitoba Hydro also provided evidence that

1 generation capacity was the main limiting factor. And
2 here I refer to transcript page 362, a discussions
3 between Mr. Peters and Mr. Cormie.

4 And despite its ability to defend its
5 position with respect to each of these issues, Manitoba
6 Hydro's main area of disagreement in the area is the
7 relevancy of these issues in the circumstances. These
8 issues would only be important if the proposed rate was
9 truly marginal cost based. As a result, the rate
10 shouldn't be tested on that basis and any allegation that
11 lack of information on tie-lines and generation limits,
12 customer load factors, and export contract DC sales
13 should not even be a consideration for reducing or
14 rejecting Manitoba Hydro's proposed rate.

15 Because it is a proxy, Manitoba Hydro
16 believes it's only fair to those who will be required to
17 pay the tier rate that it be a conservative proxy.
18 Comparing the two (2) year average to Wuskwatim costs
19 demonstrates that it is conservative. In addition, the
20 two (2) year average prices -- applying the price of an
21 inferior product to the superior domestic product. And
22 there I refer to Mr. Cormie, at page 336, line 7.

23 Manitoba Hydro views the adoption of the
24 average of the past two (2) years of extra -- of actual
25 extraprovincial sales as a reasonable proxy given the

1 circumstances in which the Utility operates and the
2 desire of the Board to use actual information.

3 I'm at about the halfway mark. I don't
4 require a break but I'm not sure if the Board wants one.

5 THE CHAIRPERSON: I think we'll take a
6 ten (10) minute break. Thank you.

7

8 --- Upon recessing at 2:08 p.m.

9 --- Upon resuming at 2:23 p.m.

10

11 THE CHAIRPERSON: Any time you're ready,
12 Ms. Ramage.

13

14 CONTINUED BY MS. PATTI RAMAGE:

15 MS. PATTI RAMAGE: Thank you, Mr. Chair.
16 Now, beginning my section on regulatory principles, and
17 first I'm going to discuss the PUB's jurisdiction.

18 You may want to have Manitoba Hydro's book
19 of authorities with you. And I can say that I haven't
20 put all of the authorities I'm going to refer to, in
21 particular, not the statutory authorities, because I
22 think the Board could probably recite them in their
23 sleep, so I didn't bother to reproduce them.

24 But the PUB gains its jurisdiction, with
25 respect to Manitoba Hydro, by virtue of the Crown

1 Corporation's Public Review and Accountability Act, which
2 I'll refer to as the Accountability Act.

3 Section 26 Sub 1 of that act provides,
4 with respect to Manitoba Hydro:

5 "...that no change in rates for
6 services shall be made and no new rates
7 for services shall be introduced
8 without approval of the Public
9 Utilities Board."

10 This Board ought to clearly and outright
11 reject any notion that it is slave to any principle
12 beyond that enshrined in legislation. As stated by the
13 Manitoba Court of Appeal in its May 2005 Decision,
14 rejecting MIPUG and CAC/MSOS's application for leave to
15 appeal this Board's 2004 GRA Order:

16 "The intent of the legislation is to
17 approve fair rates, taking into account
18 such considerations as cost and policy,
19 or otherwise as the PUB deems
20 appropriate. Rate approval involves
21 balancing the interest of multiple
22 consumer groups with those of the
23 Utility."

24 Now that's at page 63 of the Decision.
25 And unfortunately I neglected to put that Decision in my

1 book of documents, but I suspect this Board has a copy.

2 The Court of Appeal went on to state that:

3 "The PUB has two (2) concerns when
4 dealing with a rate application: The
5 interest of Utility's ratepayers and
6 the financial health of the Utility."

7 There I refer to paragraph 65. Manitoba
8 Hydro's concerns in bringing this application relate
9 directly to the interests of the Utility's ratepayers and
10 the financial health of the Utility.

11 MIPUG's position that the proposal is
12 discriminatory is premised on its view that where the
13 same embedded costs are incurred by the Utility to serve
14 members of the GSL class, the rates to members of the
15 class must be the same. This simplistic logic fails to
16 recognize any concept of cost, other than embedded cost
17 directly incurred by the Utility.

18 Because of the of gap between embedded
19 cost and marginal cost, we are asking the Board to focus
20 its attention on a different kind of cost, that being the
21 cost some customers impose on other costers (sic) by
22 virtue of their disproportionate levels of consumption.

23 There are real cost impacts to the
24 Utility's revenue position and therefore to other
25 customers, when a kilowatt hour of energy is diverted

1 from the export market to a domestic customer. These
2 cost impacts are noticeable and measureable with respect
3 to those customers served at the GSL greater than 30 kV
4 level. It is clearly a factor that impacts rates, and
5 the Board is entitled to consider this factor when
6 assessing if proposed rates are just and reasonable and
7 not unduly discriminatory.

8 The PUB has been given broad jurisdiction
9 as to what considerations it may take into account when
10 exercising its rate approval function.

11 The factors which the Board may take into
12 consideration when exercising its rate approval function
13 are found at Section 26 Sub 4 of the Accountability Act.
14 These factors are not mandatory, nor are they limited to
15 cost causation in the traditional sense. That the
16 Legislature included in its guidelines compel us --
17 compelling policy considerations and any other factor the
18 Board considers relevant, is a clear indicator that the
19 Legislature intended the PUB to take into account a broad
20 array of considerations when assessing whether Manitoba
21 Hydro's rates are just and reasonable and not unduly
22 discriminatory.

23 And on this point, Manitoba Hydro doesn't
24 take issue with the proposition that its rates must be
25 just and reasonable and not unduly discriminatory, but

1 from a legal perspective, I think it's important to
2 recognize the origin of -- of this principle as it
3 applies to the decisions of the Board and the factors or
4 tests if any which must be applied when the Board makes
5 its decisions.

6 Neither the terms "just and -- just and
7 reasonable," nor "unduly discriminatory," can be found in
8 the Accountability Act. The Legislature not -- chose not
9 to use this or any other particular terminology, with
10 respect to this Board's rate approval authority.

11 In terms of application to Manitoba Hydro,
12 the concept has -- has its roots to English -- its roots
13 in English common law. So while rates ought to be just
14 and reasonable, the Legislature has not chosen to impose
15 a particular method to be used by the Board or factors to
16 be considered when assessing the justness and
17 reasonableness of its rates.

18 Ensuring that the costs incurred by the
19 Utility are allocated fairly amongst customer classes is
20 certainly a very important factor in determining whether
21 rates are just and reasonable. The Board, however, is
22 not limited to this factor. It has the discretion to
23 look at other factors; factors such as how the use of
24 energy or power by one (1) group of customers impacts the
25 costs imposed on all other customers.

1 And as noted, by the Federal Court of
2 Appeal in the trowns -- Trans Mountain Pipeline decision
3 -- and that's at Tab C of your book of documents; and
4 that's in -- that's at paragraph 9 in Manitoba Hydro's
5 book of -- Tab C in the book of authorities, and I'm
6 going to quote from paragraph 9:

7 "The meaning of the words 'just and
8 reasonable' is very easily resolved
9 since those words are not used in any
10 special technical sense and cannot be
11 said to be obscure and need
12 interpretation. What makes difficulty
13 is the method to be used by the Board
14 and the factors to be considered by it
15 in assessing the justness and
16 reasonableness of tolls. The statute
17 is silent on these questions. In my
18 view, they must be left to the
19 discretion of the Board which possess
20 in that field an expertise the judges
21 do not normally have.
22 If, as has clearly -- if it has clearly
23 done -- if, as it has clearly done is
24 the case, the Board addresses its mind
25 to the right question, namely the

1 justness and reasonableness of tolls
2 and does not base its decision on
3 clearly irrelevant considerations. It
4 does not commit an error of law merely
5 because it assesses the justness and
6 reasonableness of the tolls different
7 from that which the court would have
8 adopted."

9 This Board's duty is to review the rates
10 of Manitoba Hydro. The Board has been given this
11 authority in the broadest of terms to make orders with
12 respect with rate approval authority. Its power is not
13 trammelled or fettered by statutory rules or directions
14 as how that function is to be carried out or how the
15 purpose is to be achieved.

16 The PUB commented at page 54 of -- of
17 Order 117 of 06 that:

18 "Setting higher rates for firms that
19 require significant quantities of
20 energy differently than other customers
21 [and I'm quoting here] could be
22 screwed -- construed as discriminatory.
23 It holds that such discrimination may
24 be acceptable in a broader public
25 interest context." End quote.

1 The Board there was getting at the
2 distinction between a discriminatory rate and an unduly
3 discriminatory rate, there being no statutory direction
4 as to what constitutes undue discrimination, and in
5 providing the Board with authority to take into
6 consideration policy and any other considerations the
7 Board considers relevant, Manitoba Hydro submits the
8 Board clearly has been given broad discretion when
9 assessing whether a rate proposal is unduly
10 discriminatory.

11 Manitoba Hydro has canvassed both Canadian
12 and American authorities in an attempt to provide this
13 Board with guidance from other regulators or courts on
14 the issue of undue discrimination and rates. Canadian
15 case law suggests that the regulator's role in deciding
16 whether a rate is unjustly discriminatory is not
17 dissimilar from the passage I quoted earlier, with
18 respect to the determination of justness -- of just and
19 reasonable rates.

20 And turning to Tab 4 in the book of
21 documents, and here I'm looking -- Tab 4 is the Town of
22 Summerside versus Maritime Electric Case. The appellant
23 there took the position that an interruptible rate
24 approved by the Island Regulatory and Appeals Commission
25 was unjustly discriminatory.

1 In dismissing the appeal the Prince Edward
2 -- oh, I'm sorry it's -- did I say -- oh I said "C", I'm
3 sorry, it's Tab B. I'm all over the place.

4 Anyways, it is Tab B, and I'm going to
5 quote from paragraph 18 of that case.

6 "The Commission's duty is therefore to
7 weigh the evidence before it and to
8 ensure, on the basis of the evidence,
9 that the rates that the rates it
10 approves are not unjustly
11 discriminatory.
12 Therefore, a determination of whether
13 or not a rate is unjustly
14 discriminatory is in my view the same
15 as whether or not a rate is fit or
16 whether or not an expenditure is
17 reasonable. It is the formation of an
18 opinion."

19 Now to the contrary, MIPUG has employed a
20 very narrow and, I would submit, inapplicable use of the
21 terminology. They rely on a concept they describe as
22 personal discrimination.

23 Now I want to be very careful here so I'm
24 going to quote from the transcript. And Mr. Landry said,
25 at page 1,405:

1 "Now the second type of discrimination
2 is discrimination between treatment
3 afforded to specific customers within a
4 class who are charged different rates
5 for substantially the same product
6 rendered under similar conditions.
7 This is referred to as personal
8 discrimination and described as the
9 anathema to rate regulation. That is,
10 there is no test of due or undue
11 discrimination in these circumstances,
12 and where these facts exist there can
13 be no justification for the rate. And
14 I've provided the reference for that."

15 Now the reference Mr. Landry refers to is
16 found at page 5 of MIPUG's written submission and it's at
17 footnote number 1.

18 Now we went to our copy of Bonbright, the
19 1988 edition, and we were unable to find any reference to
20 personal discrimination. So last night I went on-line
21 and lo and behold, I found the 1961 edition of Bonbright
22 in full. And I located MIPUG's reference to page 370,
23 which they refer to at their footnote 1. And I've got
24 that reference produced at Tab A, and I'd to read the
25 full passage from the reference.

1 "Readers of the treatises and the case
2 law on public utility and railroad
3 rates will often come across bold
4 statements, to the effect that in these
5 regulated industries the practice of
6 rate discrimination is illegal. In
7 fact, however, such statements are
8 grossly inaccurate. What the law
9 forbids is merely undue or unjust
10 discrimination.
11 To be sure, the statutes also declare
12 to be unjust, without qualification, a
13 certain type of overt discrimination
14 that had a disgraceful early American
15 history, particularly in railroad rate
16 making, namely, personal
17 discrimination, whereby different
18 customers are charged different rates
19 for substantially the same service
20 rendered under similar conditions. But
21 beyond this point the legislatures have
22 been content with general language
23 forbidding undue or unreasonable
24 preferences or prejudices, leaving the
25 task of interpretation to the

1 commissions, subject of course to
2 review by the Appellate Courts."

3 And now when I go back to that MIPUG
4 footnote 1, following MIPUG's reference to the page 370
5 passage, the one I just read in full, the MIPUG written
6 submission goes on to say later at page 374, this -- this
7 is described as, and MIPUG quotes:

8 "The type of practice forbidden without
9 qualification." End quote.

10 Now these do -- words do appear in
11 Bonbright and they appear at page 374, but I think the
12 meaning's lost if you take it out of context and you
13 don't finish Bonbright's thought. It doesn't say, The
14 type of practice forbidden without qualification. It
15 says:

16 "The type of practice forbidden without
17 qualification by the various public
18 utility statutes and by Section 2 of
19 the Interstate Commerce Act."

20 It is clear Bonbright was intending to
21 draw a distinction between discrimination and undue
22 discrimination. He points out that it's grossly
23 inaccurate to state that there exists an absolute
24 prohibition against discrimination, with the exception
25 that statutes may explicit -- statutes -- not -- its

1 statutes may explicitly provide such absolute
2 prohibition.

3 The statutory provision referenced in the
4 text appears to be against racism. It would be difficult
5 and in fact unconscionable to argue an absolute prohi --
6 argue against an absolute prohibition against this type
7 of discrimination in any circumstance. But the point is,
8 Bonbright is speaking of statutorily prohibited
9 discrimination.

10 Short of such statutory prohibition,
11 Bonbright agrees with Manitoba Hydro's point that where
12 legislators use language forbidding undue or unreasonable
13 discrimination, or are silent on the point, as the case
14 is in Manitoba, the task of interpretation falls to the
15 regulators.

16 Failing a specific statutory pro --
17 prohibition, in Mr. Bonbright's words, again:

18 "Beyond this point the Legislatures
19 have been content with general language
20 forbidding undue or unreasonable
21 preferences or prejudices, leaving the
22 task of interpretation to the
23 Commissions, subject of course to
24 review by the Appellate Courts. The
25 Canadian Courts have told us that as

1 long as the regulator addresses the
2 right question and does not rely on
3 irrelevant considerations, resolution
4 of the issue becomes a matter of
5 opinion."

6 In Manitoba there is no legislative
7 direction as how to define undue discrimination, nor
8 absolute -- the absolute prohibitions Mr. Bonbright
9 discusses. There is no technical test that has to be
10 met. The Board is empowered to assess whether undue
11 discrimination exists. It is a matter of opinion and a
12 question of reasonableness.

13 Rates not directly in accordance with
14 traditional cost causation principles are not without
15 precedent. This Board itself stated in Order 8 of '08:

16 "The Board will set rates that though
17 influenced by Manitoba Hydro's costs
18 will not be solely determined by cost."

19 And that's at page 24.

20 And the PUB is by no means the first
21 regulator to adopt this view. In this regard, I -- I
22 direct your attention to Tab D in Manitoba Hydro's book
23 of authorities, where you'll find the Northern Indiana
24 Public Service Company case, which dealt a proposal to
25 charge a lower rate to industrial customers than would

1 have been the case if only cost-based factors were
2 applied.

3 This practice was not uncommon in the --
4 in the case, it tells us, the practice was not uncommon
5 at that time when the utilities -- when utilities sought
6 to offer lower rates to industrial customers who would
7 otherwise leave their system, with the result being an
8 increase in costs for the remaining customers. It's
9 almost the reverse of what we have here.

10 In essence, it was better to have a large
11 industrial cover all of its variable costs and some of
12 the utilities' fixed costs, than have no industrial
13 customer at all.

14 In the Indiana case, the electric utility
15 was proposing to sell power at discount rates to certain
16 customers that agreed to defer self-generation for a
17 minimum of five (5) years and to purchase all of their
18 electric power require -- requirements from the Utility
19 during that five (5) year period. A term of this rate
20 was that it would be offered only to those customers
21 whose physical and technological characteristics were
22 such that their existing thermal load would make self-
23 generation economically feasible.

24 The rate was not offered to existing co-
25 generators, nor to companies that re -- could reduce

1 their load in other manners -- manner, and -- and by
2 reducing their load their contribution to fixed costs by
3 virtue of non-generating alternatives such as load
4 management.

5 The Indiana Regulatory Commission reviewed
6 similar issues to those that have been discussed in the
7 course of this hearing. For example, one (1) Intervenor
8 argued that the rate was discriminatory between those
9 customers for whom self-generation was a viable option
10 and for those who -- whom it was not.

11 And while the Commission acknowledged that
12 the dollar cost of service for both customers could be
13 the same, they determined that the conditions and
14 circumstance of service to the two (2) were dissimilar.
15 Customers capable of self-generation were capable of
16 producing ramifications, which may have impacted all
17 customer classes.

18 The Commission determined that the
19 customer's ability to impact the costs to other customer
20 classes was sufficient, so as to justify a differential
21 rate.

22 The Indiana rate was negotiable and
23 qualifying customers would not necessarily each receive
24 the same rate. The Commission acknowledged that
25 negotiated prices constituted a discriminatory price

1 scheme. However, the Commission reasoned that while each
2 customer could receive a different rate, those deferring
3 -- differing rates would result from reasonable
4 considerations, based on the unique circumstances of
5 service provided to each large customer.

6 They concluded that the rates, while
7 different, were not discriminatory, noting that they
8 balance the interest of all parties concerned.

9 MIPUG has argued that there is no
10 regulatory precedent for treating differently customers
11 who characteri -- whose characteristics cause the Utility
12 to incur similar costs to serve them. This is incorrect.
13 The Indiana case clearly illustrates that where
14 appropriate it's reasonable to look beyond cost of
15 service in the traditional sense, particularly where a
16 customer's individual decision to decrease or to increase
17 its consumption has system-wide impacts.

18 Now before I leave my legal argument
19 section I'd like to discuss briefly comments made by the
20 MIPUG witness and a MIPUG presenter regarding any "B"
21 permits and Order in Council 437/1996. I believe this is
22 also addressed in MIPUG's written argument, although not
23 during the oral submission.

24 It was suggested that the adoption of this
25 rate proposal will have the effect of placing Manitoba

1 Hydro in breach of the terms and conditions of its NEB
2 permits and the referenced Order in Council, or
3 alternatively, that the proposal is contrary to the
4 intent of these documents.

5 Order in Council 437 of 1996 provides
6 Manitoba Hydro with blanket authority to export surplus
7 power and energy. By way of background, under Section 16
8 of the Manitoba Hydro Act, without this blanket authority
9 Manitoba Hydro arguably requires Lieutenant Governor and
10 Council approval prior to concluding an export
11 transaction.

12 The authorization to explore -- to explore
13 it was provided to avoid having to go back for -- for
14 approvals on an ongoing basis, particularly you can see
15 the time in 1996 was when the market was opening up.

16 And the -- but the authorization to
17 support does state:

18 "It's conditional upon the power and
19 energy to be sold, that the power and
20 energy to be sold, is surplus to the
21 needs of customers located in the
22 province of Manitoba."

23 And the argument, as I understand it from
24 Mr. Bowman, is that Order in Council 437 of 1996 speaks
25 directly to Manitoba Hydro's duty to serve. This

1 position completely fails to recognize that the duty to
2 serve is not an unfettered one and is accompanied by a
3 corresponding duty to pay the applicable rate of -- for
4 service provided.

5 Under Manitoba law the applicable rate is
6 that approved by the PUB. There is nothing in the Order
7 in Council which alters this proposition or otherwise
8 fetters the discretion of this Board when approving
9 rates. It had nothing to do with rates.

10 There is no evidence that Manitoba Hydro
11 is seeking to withhold or otherwise deny service to any
12 customer. To the contrary, Mr. Wiens stated, at
13 transcript page 397, line 19:

14 "This rate is saying, you know, if the
15 energy is worth it to you, then by all
16 means. If it's not, then presumably
17 the load won't appear."

18 The provisions of NEB permits play no role
19 whatsoever in a provincial retail rate approval issue.
20 Mr. Bowman has erroneously interpreted the export permit
21 conditions relating to Manitoba Hydro's obligation to not
22 export without first giving an opportunity to purchase
23 electricity on terms and conditions as favourable as the
24 terms and conditions which apply to the proposed exports
25 to those who demonstrate an intention to buy electricity

1 for consumption in Canada as applying to retail
2 purchases. However, the NEB has no jurisdiction over
3 retail rates, so the permit conditions must be read down
4 from a constitutional perspective.

5 In practice, when Manitoba Hydro submits
6 export permit applications, the NEB routinely asks
7 Manitoba Hydro to demonstrate, that is inform Canadian
8 wholesale purchasers of electricity available -- of the
9 availability for export consistent with their
10 jurisdiction.

11 MIPUG members again don't fall into this
12 class. Further, domestic customers are also Manitoba
13 Hydro's first priority. This does not mean at low
14 embedded cost rates. Even if these permit provisions did
15 apply, it says on terms and conditions as favourable as
16 being offered to exports. Clearly, the proposed rate is
17 on as or more favourable terms than those offered to
18 exports.

19 Turning to the Options section. In
20 response -- response to the Chairman's request, Manitoba
21 Hydro has prepared a list of the various options it
22 reviewed in the course of developing its proposals to
23 deal with the issue of rapid industrial growth. As you
24 can see, it's not a short list. This is indicative of
25 the fact that Manitoba Hydro's solution was not something

1 that was just pulled out of the air. A range of
2 alternatives has been -- has been examined.

3 We've outlined the relative strengths and
4 weaknesses of each option in the document. Because the
5 number of options are numerous, I'm not going to deal
6 with all the options, just those that have garnered the
7 most attention in this process and the ones that Manitoba
8 Hydro most seriously considered.

9 And I'll finish this section of my
10 submission by addressing Manitoba Hydro's concerns with
11 adopting a service extension model to deal with the
12 problem and also, while we -- we must not be deferring
13 action now to implement Manitoba Hydro's proposal.

14 And before I delve into the analysis of
15 the BC and Quebec systems I'd like to correct a statement
16 made during MIPUG's argument.

17 We were told that the gap between embedded
18 cost rates and marginal cost is much larger in BC and
19 Quebec where it is four (4) cents per kilowatt hour as
20 opposed to Manitoba where it's two (2) cents per kilowatt
21 hour. And that was at transcript page 1419.

22 The two (2) cent gap is derived using
23 Manitoba Hydro's Tier 2 rate, a conservative two (2) year
24 historic proxy employed for transparency and simplicity
25 purposes.

1 The BC and Quebec gap is derived using a
2 true marginal rate, a forward looking marginal cost. So
3 if we compare apples to apples and employ the seven point
4 zero (7.0) cent kilowatt hour export forecast based -- or
5 twenty (20) year levelized export forecast base marginal
6 cost referred to at page 3 of the Application, or the
7 marginal cost based on Wuskwatim which is in the range of
8 seven point four (7.4) cents, we discovered the gap is
9 very comparable in Manitoba.

10 Through the course of this hearing, as
11 well as the 2008 GRA and 2006 Cost of Service Study
12 hearing, we have looked at what is going on in other
13 provinces, particularly Quebec and British Columbia.
14 Manitoba Hydro has consistently maintained that these
15 approaches are not the answer to the Manitoba problem.

16 The imposition of a 50 megawatt limit on
17 the duty to serve in Quebec potentially has far harsher
18 consequences than Manitoba Hydro's proposal.

19 Such proposal is simply not an option in
20 this province. Manitoba Hydro has a duty to serve
21 customers located in the province and there has been no
22 indication that the legislature is interested in limiting
23 or otherwise altering this duty as was done in Quebec.

24 Nevertheless Quebec Hydro faced a similar
25 problem and the Quebec response certainly constitutes

1 precedent for differential treatment of large customers
2 whose load expansion served to impose costs on other
3 customers.

4 MIPUG argues that because the 50 megawatt
5 limit on the duty to serve large industrials was
6 accomplished by virtue of legislation, it is of no
7 precedential value. I would suggest that's a distinction
8 without a difference.

9 This Board has the jurisdiction to approve
10 the proposed rate if it considers it reasonable. I do
11 not believe that was the case in Quebec. I have put a
12 tab in the book of documents dealing with some of the
13 Quebec legislation. I don't intend to go through it
14 except to say it appears that the Quebec Regie does not
15 have the same broad powers when approving rates that this
16 Board does.

17 The important point to take from the
18 Quebec example is that the problem was studied and a
19 limit on the amount of power the Utility was obliged to
20 provide at embedded cost rates was deemed the appropriate
21 response.

22 During the proceeding MIPUG brought Mr.
23 Ostergaard here as a witness in order to benefit from his
24 knowledge of rate design and the service extension policy
25 practices of BC Hydro.

1 However, nothing Mr. Ostergaard told us
2 has changed our mind with regard to the inapplicability
3 of the solutions devised in British Columbia to the
4 problem we are trying to address here in Manitoba.

5 To be clear at the outset, the BC model is
6 not a solution for the problem identified in Manitoba nor
7 does it purport to be. As stated at page 20, line 19 of
8 Mr. Ostergaard's evidence, the fact that new loads added
9 to the BC Hydro grid exposed BC Hydro to future costs,
10 which are greater than revenues, is not a significant
11 issue in British Columbia.

12 This has not been the assessment of the
13 issue in Manitoba. However, it's not entirely surprising
14 that it's not a significant issue in BC. They operate
15 under an entirely different model which mutes the impacts
16 of new load on rate payers.

17 In BC, export revenues applied against
18 revenue requirement for the benefit of ratepayers is
19 capped at \$200 million and it is government, not
20 ratepayers that bear the risk of export losses. And
21 there I refer to transcript page 1176 through 1177.

22 Mr. Ostergaard confirmed, at page 1178 of
23 the transcript, that the effect of these limits is that
24 the impact of trade income on what rates could -- rates
25 would otherwise have been is a maximum of approximately

1 6.5 percent.

2 By comparison, Hydro's Cost of Service
3 Study discloses export revenues of \$551 million on
4 domestic revenues of \$1.068 billion. There are no caps
5 in Manitoba and ratepayers have come to rely on those
6 revenues to keep rates low in Manitoba and that's the
7 crux of this issue.

8 The BC industrials rate structure does not
9 nor is it intended to address the problem identified by
10 this Board. Mr. Ostergaard tells us, at page 13 of his
11 evidence, that the main purposes of the stepped rate
12 structure is to elicit a DSM response and create a level
13 playing field for IPPs to compete with the BC -- with BC
14 Hydro for a customer's Tier 2 load. Manitoba Hydro
15 doesn't take issue with these objectives, but they are
16 not the objectives of this application. BC Hydro's
17 inverted rate applies to all customers served at
18 transmission voltage and is intended to expose the last
19 10 percent of each customer's energy usage to the
20 marginal cost of electrical energy.

21 A customer baseline is established at 90
22 percent of historical load. If the customer's annual
23 energy moves outside a band of 98 percent to 100 -- 110
24 percent of their customer baseline, the baseline is reset
25 to equal 90 percent of the new annual energy use. The

1 rate structure is revenue-neutral to individual customers
2 if the customer doesn't -- does not change -- customer
3 load does not change.

4 The second block rate is set equal to
5 marginal cost and the first block rate is set such that
6 revenue neutrality with respect to an embedded cost-based
7 rate is maintained. Thus, the second block rate provides
8 an economic price signal for incremental load adjustments
9 within 90 percent to -- to -- between -- within the 90
10 percent to 110 percent band, but not for major expansions
11 and not for new load locating in the province. It does
12 not send a price signal regarding major load expansions
13 or the location of new major loads within British
14 Columbia.

15 The primary purpose of the Tier 2 rate in
16 Manitoba Hydro's proposal is to offset lost export
17 revenues resulting from the increased load. This purpose
18 is entirely defeated if the baseline is reset following a
19 load increase.

20 Mr. Ostergaard provided evidence, and
21 that's at page 3 of his pre-filed evidence, that electric
22 tariff supplement number 6 has for many years dealt with
23 the concerns relating to the potential financial
24 implications to BC Hydro and its domestic ratepayers
25 arising from new large industrial loads.

1 The tariff requires one-time payments for
2 generation and transmission cost implications for
3 connecting very large industrial loads. The provisions
4 of Electric Tariff Supplement 6 do not appear to afford
5 any significant protection to other consumers.

6 The evidence suggests it has not been
7 applied consistently. At page 11 of his pre-filed
8 testimony, Mr. Ostergaard provides examples of where the
9 BCUC or the province have directed that the cost of
10 providing service be fully covered by the Utility.

11 With -- with respect to generation, the
12 tariff only applies to loads in excess of 150 MVAs. At
13 this level, it's unlikely to capture load -- load
14 expansions or new load except in the most extreme cases.

15 As noted in Manitoba Hydro's rebuttal
16 evidence, which was not challenged, the formula
17 effectively requires the Utility to invest an amount
18 equal to more than seven (7) years' revenue received from
19 the customer for the purpose of funding grid improvements
20 required to serve the customer.

21 The only offset to annual revenue in the
22 formula appears to be the estimated incremental operating
23 and maintenance expense of supplying the incremental load
24 during the first year of normal operations. And there,
25 we refer to PUB/PO and "PO" is Peter Ostergaard dash 1,

1 page 3.

2 It is not apparent that the estimated
3 incremental operating and maintenance expense includes
4 the most significant incremental cost of supplying the
5 customer, that being the excess of the incremental cost
6 of the energy that the customer will be taking over --
7 taking, over the embedded cost that is included in rates.
8 The formula appears to assume that the only cost that the
9 Utility must recover is the incremental cost of
10 transmission improvements required to serve the customer.

11 Similarly, if the new customer has load
12 that is less than 100 MVAs, the excess of marginal over
13 embedded costs becomes the responsibility of ratepayers
14 collectively. If the customer has a load in excess of
15 150 MVAs, they may be required to make a contribution for
16 generation system reinforcement, "based on the same basic
17 principles as the transmission system reinforcement."
18 Again, PUB/PO-1 at page 1.

19 If the application of these principles is
20 similar to those affecting transmission reinforcements it
21 would not appear likely that the general ratepayer is
22 being compensated for anything close to the full impacts
23 on general consumer rates. Likewise, Manitoba Hydro's
24 current service extension policy provides no protection
25 to other customers related to the gap between marginal

1 and embedded energy cost, although it does provide more
2 protection than BC Hydro's Tariff Number 6 relative to
3 the cost of extensive new transmission facilities.

4 Mr. Wiens noted in his testimony, at page
5 96, that the last time Manitoba Hydro reviewed other
6 utilities' allowances Manitoba Hydro's were amongst the
7 most generous in the country. As explained by Mr. Wiens,
8 transcript page 94, the maximum Manitoba Hydro investment
9 in primary voltage facilities to serve a new customer,
10 other than those exceeding 30 kV or loads exceeding 5
11 megawatts where the customer owns the transformation, is
12 three (3) times the estimated annual revenue.

13 For loads exceeding 30 kVs, prior to June
14 23rd, 2005, Manitoba Hydro's Service Extension Allowance
15 was applicable to the cost of upgrading the corporation's
16 existing common integrated system on the supply side of
17 the point where facilities tap into the system.

18 Effective June 23rd, 2005, no allowance
19 was applied to facilities required to serve new loads
20 exerting -- exceeding 30 kV or loads in the excess of 5
21 megawatts without approval of Manitoba Hydro's executive
22 committee.

23 The suspension of allowances was an
24 initial response to the concern that is driving the
25 application which is before the Board today. The

1 continuing expansion of energy-intensive industry, whose
2 incremental cost to serve is substantially in excess of
3 the revenue that was being received as a result of these
4 expansions. Mr. Wiens discussed this at page 97 of the
5 transcript.

6 At that time, it was determined that the
7 net annual cost to Manitoba Hydro of delivering energy to
8 just the sodium chlorate and pipeline industries, rather
9 than to the export market, was in the order of fifty (50)
10 -- \$55 million annually. Over a thirty (30) year period,
11 discounted at Manitoba Hydro's then weighted-average cost
12 of capital, the net present value of this foregone
13 revenue was an estimated \$750 million.

14 Now that was revised to \$766 million as
15 per Exhibit Manitoba Hydro-9 in the current proceedings.

16 Eliminating service extension allowances
17 was far from sufficient to compensate for the long-term
18 net costs of serving new energy-intensive loads. As
19 pointed out by Mr. Wiens, at transcript page 146, most of
20 the costs don't relate to new transmission facilities,
21 rather most is energy-related, lost potential export
22 sales or required new generation.

23 However, with respect to service extension
24 policy, it was believed that until a more comprehensive
25 approach to the issue could be developed, the corporation

1 should at least stop subsidizing the costs of connecting
2 unprofitable new loads to the system.

3 Manitoba Hydro concludes that the BC Hydro
4 rate structure is not an option to deal with the issue of
5 large lows -- loads imposing costs on the system as it
6 exists in Manitoba.

7 A few -- a few conclusions we did draw
8 from the BC situation are that where circumstances
9 warrant, it's acceptable to draw lines in the sand. The
10 application of the Service Extension Tariff to only load
11 in excess of 150 MVAs is no different in principle than
12 the proposal that this rate applied to loads in excess of
13 100 gigawatt hours per year.

14 The selection of both these benchmarks are
15 judgement-based, and as Mr. Ostergaard stated in his
16 response in Manitoba Hydro/MIPUG-9B, are intended as
17 striking a balance between allowing BC Hydro's new
18 customers to share in BC Hydro's low-cost power and
19 protecting existing ratepayers from unduly subsidizing
20 the needed capital costs of providing power to new
21 industrial customers.

22 Mr. Williams appears to suggest in his
23 closing argument that a modified version of TS-6 might be
24 a preferable approach to revenue protection. He -- he's
25 -- that's found at transcript page 1323.

1 As I previously indicated, a new
2 feasibility test was, in fact, one of the options that
3 was given early consideration to mitigate the revenue
4 impacts of rapid expansion of -- of energy-intensive
5 loads.

6 Manitoba Hydro gave serious consideration
7 to integrating the gap between rates and marginal cost
8 into a feasibility test for service to the new load. The
9 present value of this gap would be incorporated into
10 customer contributions required before service would be
11 extended.

12 We heard Mr. Warden testify that this type
13 of solution was looked at by Manitoba Hydro but was
14 ultimately rejected because of fairness concerns related
15 to disproportionate contributions from customers
16 depending on how close they were to Manitoba Hydro
17 transmission facilities and because the one-time
18 contribution was simply too much for customers to bear.
19 And here I direct you to a discussion between Mr.
20 Williams and Mr. Warden at page 491 of the transcript.

21 Looking at the numbers in Exhibit Manitoba
22 Hydro 9, the present value of the marginal cost to
23 revenue gap over a thirty (30) year period was \$766
24 million for 2,234 gigawatt hours, or about \$343,000 per
25 gigawatt hour.

1 For a new customer with 100 megawatt load
2 at 82 percent load factor, some 620 gigawatt hours
3 annually would have -- would exceed baseline and would
4 lead to an upfront contribution of \$122 million.

5 Alternatively, as expressed per unit of
6 new demand, it would be \$1.2 million per megawatt.
7 Manitoba Hydro considered an upfront payment such as this
8 to be a more significant barrier to expansion than
9 applying a rate based on marginal cost. However, apart
10 from the sheer magnitude of the contribution this
11 approach also entails risk for both the customer and
12 Manitoba Hydro. Neither has certainty going forward as
13 to whether the actual load will accord with this forecast
14 load over the horizon over which the MPV is calculated.

15 If the customer's actual use exceeds the
16 forecast use on which the upfront contribution was based,
17 the revenue impacts on the Corporation would not have
18 been fully mitigated. Alternatively, if the customer
19 uses significantly less than forecast, the customer will
20 have over paid.

21 Further, the relationship between marginal
22 costs and rates based on embedded cost is not known in
23 advance with any degree of certainty. If the gap widens
24 again the Corporation incurs unmitigated revenue impacts.
25 If it narrows, the customer has overpaid.

1 Whether the contribution is expressed
2 upfront as a demand charge or energy charge these
3 concerns apply. It -- it matters not. Arguably, some
4 type of true-up provision could address these concerns
5 but the magnitude of true-ups is potentially very large
6 and the true-ups could be required on an ongoing basis
7 over a long period of time.

8 Service extension tests and upfront
9 customer contributions work well with respect to
10 facilities, such as distribution and transmission, where
11 the costs are incurred prior to the connection and can be
12 reasonably estimated. They may even work for generation
13 if a specific unit of generation can be identified as
14 required to meet the customer's need and is constructed
15 as part of the overall service extension.

16 They work less well with respect to
17 covering the cost of revenue deficiencies that may extend
18 well into the future. As long as a sustained revenue
19 gap, based on cost of supplying energy is recognized as a
20 problem, it is difficult to resolve this issue through
21 service extension policy and customer contributions
22 alone.

23 As a comparison, Centra's feasibility test
24 does not incorporate commodity costs or revenues. It
25 simply assumed that commodity costs will be passed

1 through as incurred and any potential revenue gap will be
2 addressed that way.

3 Manitoba Hydro's current service extension
4 policy deals with the cost of facilities other than
5 generation, which are required to serve large new loads.
6 Mr. Wiens provided his description of that policy at
7 transcript page 95, line 12 through 96, line 14. It
8 provides much better revenue protection than BC Hydro's
9 TS-6 for other customer classes.

10 Even prior to the changes of June 2005, it
11 provided for investment up to three (3) years anticipated
12 revenue from the customer in transmission improvements
13 required to serve the load, as compared to about seven
14 (7) years in TS-6. With the change in June 2005, the
15 full cost of transmission improvements is now funded by
16 the customer.

17 I would be remiss if I finished on this
18 topic without reminding the Board that there are
19 significant jurisdictional issues associated with PUB
20 review of Manitoba Hydro's service extension policy. I
21 believe the Board they're -- I believe Manitoba Hydro
22 made its position known in both the 2008 GRA and the
23 review and vary application, and I don't think it
24 necessary to repeat that legal argument and I certainly
25 hope that Board review of the issue is not required.

1 And I say not required -- not required
2 because based on the information provided in this hearing
3 the Board can have confidence that further examination of
4 Manitoba Hydro's service extension policy is not
5 warranted, that Manitoba Hydro has considered multiple
6 options, and that this Board has seen the best of those
7 options.

8 The application filed represents the
9 optimal balancing of multiple ratepayer and utility
10 interests. The cost to ratepayers is adding up.
11 Agreeing on a benchmark date of December 31st, 2007 does
12 not address the loss in export revenues that are
13 occurring while we're waiting to study the problem yet
14 another time. It's a complex problem but further delay
15 will not resolve the complexities. A decision must be
16 made and the -- the rate must be put in place.

17 Now, there's been discussion during
18 closing arguments about the need for further consultation
19 and potentially a third hearing to deal with the
20 application on the grounds that additional information or
21 deliberation is required. Manitoba Hydro strongly
22 disagrees.

23 Manitoba Hydro has already consulted with
24 its customers. In addition to the numerous individual
25 discussions described by Mr. Dudar over the past several

1 years, we had a town-hall-like meeting in September for
2 further input and several changes were made to the
3 proposal as a result.

4 Manitoba Hydro has provided substantial
5 information to support its application, including
6 voluminous answers to Information Requests, numerous
7 exhibits, direct testimony, cross-examination evidence,
8 in not just this hearing but we had our 2008 GRA where we
9 discussed the same issues and we also have the rebuttal
10 evidence.

11 MIPUG has criticized Manitoba Hydro for
12 not providing certain information at an earlier point in
13 time. However, the material issues have all been
14 addressed well in advance of closing argument.

15 For the record, an in-depth analysis of
16 the value of on-peak and off-peak energy sales in the
17 MISO region has been provided. And here I direct you to
18 PUB/Manitoba Hydro 12-B and PUB/Manitoba Hydro 14-C
19 supplemental.

20 I also direct you to the evidence of
21 Harold Surminski starting at page 225, and the evidence
22 of David Cormie starting at page 346, and Manitoba Hydro
23 Exhibit 7, 8, 12, 13 and 14.

24 The definition of firm average price of
25 firm exports has been reviewed. It's been discussed at

1 length in PUB/Manitoba Hydro 14 and throughout Mr.
2 Cormie's evidence. It's also discussed at Manitoba Hydro
3 Exhibit 15.

4 There has been a review of other
5 jurisdictions. Manitoba Hydro is of the opinion found --
6 opinion that the solutions found in other jurisdictions
7 are not applicable here due to differing circumstances
8 and objectives, but there has been a discussion.

9 And there's information on other
10 jurisdictions provided at PUB 13-A through D and the
11 Board heard from Mr. Ostergaard and you have Manitoba
12 Hydro's position.

13 There's been a discussion of specific
14 deferral values as explained at page 153. There is no
15 deferral value resulting from Manitoba Hydro's ability to
16 defer generation plant and associated transmission from
17 this -- from the Energy Intensive Industry Rate.

18 We also have PUB 12-C. There's been an
19 explanation of the 100 gigawatt hours and I've already
20 addressed this point in my submission.

21 And I've also dealt extensively with
22 service extension policies in my closing submission and I
23 don't think that bears repeating.

24 Finally, there's the question of time of
25 use rates. The Board requested an implementation

1 strategy and Mr. Wiens gave direct evidence on this
2 topic. Mr. Bowman commented that the -- Manitoba Hydro's
3 time-line was not unreasonable.

4 The test relating to the provision of
5 information on an application that must be met by an
6 applicant has been set out by the Supreme Court of
7 Canada, and we have it in Tab F of Manitoba Hydro's book
8 of documents. And I'm not going to go into detailed
9 analysis. I'll simply point out that the first question
10 is were the Intervenors provided with sufficient
11 information or disclosure to allow for their meaningful
12 participation in the hearing?

13 The second question is, were the
14 Intervenors fairly treated in all the circumstances?
15 Manitoba Hydro submits that both of these questions could
16 be answered in the affirmative.

17 There has been meaningful participation by
18 all parties. The Board went to the extraordinary step of
19 offering Intervenors the opportunity to pose followup
20 questions on undertakings following the close of the
21 evidentiary portion of the hearing.

22 That no party took the Board up on its
23 offer suggests that all parties had the information
24 before them that they felt necessary to present their
25 case.

1 Mr. Chairman, Members of the Board,
2 Manitoba Hydro has reviewed the options. It's consulted
3 broadly with government and industry. It has the support
4 of government and the tacit support of a large segment of
5 industry.

6 The baseline approach is fair. The cap is
7 generous. The growth allowance is also generous.
8 Manitoba Hydro's proposal is a made in Manitoba solution
9 to address a Manitoba problem.

10 We don't need a BC solution or a Quebec
11 solution. We need to implement the option that works
12 best for Manitoba. That option is the proposal you have
13 before you today and we strongly recommend its -- its
14 approval.

15 And that concludes my comments.

16 THE CHAIRPERSON: Thank you, Ms. Ramage.

17 MR. ROBERT MAYER: Mr. Chair, if I may.

18 Ms. Ramage, the first thing I've noticed
19 is that it's the first time that all the Intervenors have
20 recommended against giving you approval for your
21 Application as submitted, but we will just take that into
22 account I think as we go on.

23 But we are getting -- we have two (2)
24 legal opinions in addition to -- or we will have two (2)
25 legal opinions, we have heard of them, we don't see them

1 yet -- in addition to Mr. Landry's about your 1500
2 gigawatt hour cap and the opinion appears to be virtually
3 unanimous, except, of course, for your position, that
4 that 1500 dollar (sic) cap is in -- is in all probability
5 unduly discriminatory especially having regard to Mr.
6 Dudar's testimony as to how it was arrived at and the
7 issue of the competitive difference between the
8 industries.

9 You haven't answered that specific issue.
10 You say the 1500 gigawatt hour cap is generous but you
11 haven't addressed the issue that has been raised about
12 that particular portion of your Application being unduly
13 discriminatory.

14 And I wonder if you have any comments on
15 that.

16 MS. PATTI RAMAGE: Mr. Mayer, I -- I
17 thought we addressed that when we discussed the -- the
18 Indiana case, and that was to the extent that when one
19 party's loads increase or decrease, and that includes
20 load amount, impacts the -- the cost to other ratepayers
21 or the cost to the Utility, that that is a consideration
22 to take into account when setting a rate.

23 And when the -- and then it's ultimately
24 up to this Board's judgment whether that is a significant
25 enough of a -- of an impact that it -- that it merits

1 leaving -- that it's not unduly discriminatory.

2 It may -- I -- I have difficulty saying
3 it's not discriminatory but it's a question whether it's
4 unduly discriminatory. And if you look at that Indiana
5 case, that's exactly the kind of point they address is,
6 when there is that kind of system impacts on others by
7 virtue of one (1) -- a few large customers' loads, that
8 the Board is within, certainly within the bounds of
9 reasonableness to -- to look at that -- that as an impact
10 and then weigh whether in those circumstances it's
11 reasonable to impose those -- those sort of limitations.

12 MR. ROBERT MAYER: I understand what
13 you're saying about in the setting of the rate and how a
14 rate may have more impact on one (1) customer than
15 another.

16 But if I recall Mr. Dudar's testimony
17 correctly, firstly the 1500 dollar (sic) cap was -- was
18 picked out of the air I think is the most generous way to
19 say that, and that part of it had to do with the fact of
20 the competition between the other user in the same
21 industry.

22 That is a whole different issue, at least
23 in my opinion and I think in the opinion of the other
24 legal advice we have, than the mere establishment of a
25 rate.

1 And Mr. Dudar's evidence I think struck
2 all of us as interesting, to say the least, in how you
3 arrived at that 1500 gigawatt hour cap.

4 MS. PATTI RAMAGE: I think it's fair that
5 Mr. Dudar's evidence could be characterized as -- as very
6 frank in that he picked that -- that cap or that cap was
7 selected to -- because he wanted to see that existing
8 loads got heritage rates. That's correct.

9 But we have to remember what that existing
10 load is, how large it is and -- and what I've already dis
11 -- I -- I discussed how Mr. Warden had described how big
12 that existing load is compared to all other load and what
13 those impacts are, and there has to be a limit. And
14 that's where we're saying draw the line. Draw the line
15 like they did in BC at 150 MVAs, like they did in Quebec
16 at 50 megawatts. And 50 megawatts doesn't compare to
17 1500 gigawatt hours.

18 And that's where we're saying the Board
19 has the ability to draw that line and say there are
20 limits when our -- our 10th largest customer is -- is at
21 140 gigawatt hours and our 25th is -- is much lower than
22 that, or I think --

23 We -- you have to understand how big that
24 1500 gigawatt hours is and why we're drawing the limit
25 there. I wouldn't characterize it as -- as

1 discriminatory. I would be more concerned about an
2 argument coming from RCM/TREE that you're discriminating
3 against the rest of our rate base by letting them have
4 that much in the first place.

5 We expect -- we expect that attack, that
6 look how much you've given these guys. They are so much
7 larger than anybody else and you're letting them have
8 that. So I think that -- that's something else the Board
9 should be weighing in its mind when -- when it's looking
10 at that issue is there's -- there's one (1) customer and
11 then there's all the rest.

12 And -- and that amount is so much more
13 than the other customer's and what we have already given
14 them is so generous that -- that I really question
15 whether you can call the -- the -- or whether -- I
16 question the characterization of the fifteen hundred
17 (1,500) cap as discriminatory.

18 THE CHAIRPERSON: Thank you. This brings
19 to a close the public phase of this hearing.

20 The Board has benefited in its
21 understanding of several issues of importance from the
22 contributions of all parties and their witnesses. The
23 Board notes and appreciates the efforts exhibited by the
24 Applicant and the Intervenors, both professional and well
25 spoken, towards assisting the Board in coming to a

1 determination of the public interest.

2 While there has been commonality to the
3 evidence and positions taken, in some cases there are
4 also large differences, providing for a healthy exchange
5 of views and perceptions, and of differing views of the
6 implications that could arise from certain decisions that
7 may result.

8 The Board appreciates the assistance
9 provided by the Board's counsel, advisors, and staff.
10 This proceeding has benefited from their dedication,
11 experience, common sense and collective wisdom.

12 The Board will now sequester itself to
13 consider the evidence brought before it. As the
14 application and the issues surrounding it have a history
15 and are of importance, not only to the parties present
16 but to the wider economy and society, we cannot provide
17 an estimate at this time as to when our order arising out
18 of this proceeding will be issued.

19 That said, recognizes that risks lie with
20 undue delay in coming to a sound decision. In the market
21 there are many constraints that go beyond regulatory
22 ones, but it is important that regulatory ones be as less
23 uncertain as possible.

24 We note the reservation of a December
25 31st, 2007 date for the baseline, and it should continue

1 until at least this Board has reached a conclusion and an
2 order has been released in this particular matter.

3 So, again, I thank you to everyone that
4 has been involved and we stand adjourned.

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6 --- Upon adjourning at 3:16 p.m.

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8 Certified correct,

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15 Cheryl Lavigne, Ms.

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