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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  
December 16th, 2008

Pages 887 to 1060

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1 --- Upon commencing at 9:05 a.m.

2

3 THE CHAIRPERSON: Good morning, everyone.  
4 I understand everyone in the room is pretty well aware of  
5 this, but due to the unfortunate deaths of two (2)  
6 individuals that are well-known to a lot of the people in  
7 this room, we are going to stand down from 10:30 to 1:00  
8 this morning after we hear from MIPUG's direct evidence  
9 from their witness panel to allow people to attend their  
10 funerals, and then we will resume again at 1:00. So we  
11 begin with Mr. Williams.

12 You wanted to speak on one of these  
13 unfortunate occasions?

14 MR. BYRON WILLIAMS: Yeah. And just very  
15 quickly, Mr. Chairman, and certainly on behalf of my  
16 clients, last week, Alister Hickson, a person well-known  
17 to the MPI side of the regulatory process, passed away,  
18 and his funeral is today. And for many years, he was  
19 head of regulatory affairs at Manitoba Public Insurance  
20 and often an opponent of my clients but always in a fair,  
21 vigorous and intellectually rigorous way.

22 In the latter part of his career, he came  
23 over to the -- to the good side. And I'm just teasing.  
24 He provided excellent analytical support to the -- to the  
25 Canadian -- to the motorcyclists, as well as to my

1 clients. And also, his knowledge was shared with  
2 consumer groups in British -- British Columbia.

3 So his sad passing at the age of fifty-  
4 four (54) is, a course -- of course, a loss to the  
5 regulatory process and an even greater loss to his family  
6 and his wife, Denise, and his daughter -- or step-  
7 daughter as well.

8 So on behalf of my clients, they -- they  
9 just wanted to offer their condolences to the Hickson  
10 family.

11 THE CHAIRPERSON: Yes, the Board joins in  
12 that as well. We had become quite accustomed to seeing  
13 Dr. Hickson from time to time as an advisor, eventually,  
14 to the motorcycles group. And he was always very well  
15 prepared and did an awful lot of background work that  
16 helped develop information that was useful to the Board  
17 as well as his clients and other clients. So thank you,  
18 Mr. Williams.

19 Mr. Landry, if you just want to first  
20 begin by introducing your witnesses, and then we will  
21 have Mr. Gaudreau swear them in. And the only witness  
22 that we would like to just briefly run through their  
23 credentials on would be Mr. Ostergaard, because he has  
24 not appeared before the Board before; the others have.

25 MR. JOHN LANDRY: Thank you, Mr. Chair.

1 Yes, Mr. Chair, as you are aware, as the other  
2 stakeholders are aware, we have a panel of three (3)  
3 today. Two (2) of the witnesses, the Board is familiar  
4 with.

5 And on your far right, the Board's far  
6 right, starting with Andrew McLaren, who is a principle  
7 at Intergroup; and to his right is Mr. Patrick Bowman,  
8 also a principle at Intergroup; and as the Chair said, on  
9 your far left, Mr. Peter Ostergaard.

10 For those who are not familiar with --  
11 with Mr. Ostergaard, he is a consultant from Victoria,  
12 but formerly the ADM of Energy Mines and Petroleum  
13 Resources in British Columbia and also the former Chair  
14 of the BC Utilities Commission.

15 In the case of Messrs. Bowman and McLaren,  
16 their CVs, for the record, are at Exhib -- MIPUG Exhibit  
17 Number 2, Appendix C. And Mr. Ostergaard's CV is MIPUG  
18 Exhibit Number 3, Attachment A.

19 Now, before swearing, the approach that we  
20 would like to take, Mr. Chair, today is, as opposed to  
21 having a ques -- direct question and answer, each of the  
22 witnesses will provide a -- a summary of -- of the  
23 evidence that they have provided, along with trying to  
24 engage in some of the issues that have -- have arisen  
25 during the process here. And we'll start with Mr. Bowman

1 in that respect.

2 But perhaps we could have the witnesses  
3 sworn first, please.

4 Mr. Gaudreau...?

5

6 MIPUG PANEL:

7 ANDREW MCLAREN, Sworn

8 PATRICK BOWMAN, Sworn

9 PETER OSTERGAARD, Sworn

10

11 THE CHAIRPERSON: Thank you, Mr.  
12 Gaudreau.

13 Mr. Landry...?

14

15 EXAMINATION-IN-CHIEF BY MR. JOHN LANDRY:

16 MR. JOHN LANDRY: Mr. Chair, firstly,  
17 just for the record, the IRs that were asked of Messrs. -  
18 - or Messrs. Bowman and Mr. McLaren, the answers were  
19 prepared under the direction of Mr. Bowman for people --  
20 people's Information. And the IR is in relation to Mr.  
21 Ostergaard's evidence. Mr. Ostergaard was -- had the  
22 responsibility for preparation for those answers.

23 And I guess the first item of business  
24 would be are there any corrections, panel, to the  
25 evidence that was filed?

1 Mr. Bowman...?

2 MR. PATRICK BOWMAN: Yes, thank you.

3 Good morning, Mr. Chairman, members of the panel. There  
4 is only correct, or I should say update, which is in the  
5 time since the evidence was filed, page 8 of the  
6 InterGroup evidence -- which is MIPUG Exhibit 2 -- lists  
7 the membership of MIPUG.

8 And I would just say since that time,  
9 Tembec Incorporated at Pine Falls is no longer a member  
10 of MIPUG. So that's -- that's just an update.

11 MR. JOHN LANDRY: Mr. Ostergaard...?

12 MR. PETER OSTERGAARD: Yes, I have one  
13 (1) minor correction in my pre-filed testimony. On page  
14 9, again, a minor error in Footnote 1, Footnote 1 reads:

15 "A large industrial customer is  
16 generally considered to be a customer  
17 that takes electricity at a  
18 transmission voltage and owns its own  
19 substation to step it down, and BC  
20 transmission is 69 kV and up."

21 That should read, "And BC transmission is  
22 60 kV and up."

23 MR. JOHN LANDRY: Sir, that's Footnote  
24 Number 9 at Exhibit MIPUG Number 3, correct?

25 MR. PETER OSTERGAARD: Actually, Footnote

1 1, according to my records.

2 MR. JOHN LANDRY: Oh, sorry, Foot --  
3 Footnote 1.

4 MR. PETER OSTERGAARD: On page 9.

5 MR. JOHN LANDRY: Okay, page 9, thank  
6 you. And those, I understand, Mr. Chair, are all the  
7 corrections or updates, and so I'll hand it over to Mr.  
8 Bowman.

9 THE CHAIRPERSON: Very good, sir.

10 MR. PATRICK BOWMAN: Thank you. I will  
11 set out a few comments in regards to the evidence that is  
12 filed on behalf of MIPUG. Bef -- and -- and then we can  
13 talk about the organization for walking through the  
14 evidence today.

15 I would note at the outset that when we  
16 received the application and -- and the materials in  
17 regards to that, the key thing that was noted by -- by us  
18 and -- and in conjunction with the members is that under  
19 Hydro's current proposal, most of the MIPUG members are  
20 now not expecting to pay this rate for the five (5) year  
21 period that the -- for which they have their -- their  
22 plans in place.

23 The proposal is quite a bit different than  
24 the last proposal in that regard, where there was some  
25 uncertainty about who would -- who would be required to

1 pay it, given the economic impact aspect of the previous  
2 one, and that the -- the proposal's more focussed in that  
3 it mostly now ends up hitting a very small number of  
4 customers, who tend to be pipelines and chemical  
5 companies who are portrayed as being price-sensitive,  
6 although I will have some comments in regards to that.

7           And in regards to the proposal, the -- the  
8 other thing that is noted is that, in many ways, the  
9 current proposal is more transparent than what Hydro  
10 filed before. It doesn't have the complexities that come  
11 with the economic impact test.

12           There's still issues, certainly, with  
13 respect to rate stability, with respect to aspects of  
14 transparency, particularly with regards to the links to  
15 firm export rates, five (5) by sixteen (16), and the  
16 relevance of that linkage to an export price, for  
17 example.

18           But when we received the -- the  
19 application, we spent a bit of time going through and  
20 figuring out how to deal with it and how to understand  
21 what we had before us. And -- and we found that we  
22 really needed to think about the proposal at -- at sort  
23 of three (3) levels, which is a bit unusual for a  
24 regulatory filing.

25           At one level, sort of the most detailed

1 level, Hydro sets out a number of -- of, sort of,  
2 purported facts in its -- in support of its case. We  
3 found a few of these to be not particularly compelling or  
4 didn't seem to bear out in the evidence.

5 We summarized these at page 4 of our -- of  
6 our evidence, but we particularly deal with them in our  
7 Appendix B. And this is in the InterGroup evidence,  
8 MIPUG Exhibit 2. And examples were that the growth that  
9 Hydro was going to charge this rate to our coming here  
10 due to low rates and -- and also the concept that all  
11 industrial load changes drive changes in the firm export  
12 market, the volume of firm export sales.

13 We put them in -- in Appendix because they  
14 weren't central to the matters we were dealing with in  
15 our case but -- but were still important to deal with.  
16 They're certainly central to Hydro's case, and they're --  
17 Hydro spent a fair bit of time filing rebuttal on those  
18 points. And so we'll -- we'll spend some time to address  
19 that.

20 At a second level, based on that set of  
21 facts, Hydro has put forward its particular proposal, in  
22 terms of how to deal with this -- this rate, put forward  
23 to the Board. We deal with their proposal. I say the  
24 InterGroup evidence and the main part of our -- our  
25 evidence, and we address it in sort of three (3) ways.

1                   One is looking at this proposal in  
2 relation to the concept of efficiency rates, and we  
3 summarize our -- our comments there at page 5. And we  
4 note that the rate is not really designed to achieve  
5 efficient pricing. And I'll have some more comments on  
6 that as we move through.

7                   It's consistent, TREE made the comment  
8 it's largely symbolic. Our high-level review is -- it --  
9 it is probably not even that, given that it's not even  
10 intended to symbolize efficiency in a sense. It's --  
11 it's really trying to shoehorn a concept of efficiency  
12 into a rate that's really aimed at something quite a bit  
13 different.

14                   The second aspect that arises with respect  
15 to Hydro's proposal is the evolution in -- in thinking  
16 from what we saw last spring in the type of growth that  
17 is targeted. As of last spring, Hydro had brought  
18 forward a proposal that had exemption criteria based on  
19 economic impact so that in essence, their proposal was  
20 targeting growth that was uneconomic for Manitoba, would  
21 be the basic assertion. Growth that was economic for  
22 Manitoba was allowed to grow -- was allowed to continue.

23                   This proposal is a fair bit different in  
24 that instead it targets the pace of growth, not the --  
25 the benefits to Manitoba. It's targeted something quite

1 a bit different and when you start to talk about the pace  
2 of growth over the long-term, it really drags in the  
3 concept of, sort of, system planning and impacts on the  
4 system.

5                   So we deal with that and summarize our  
6 comments on that in page 5 to 6 of the InterGroup  
7 evidence, and -- and I'll -- I'll speak more to that as  
8 we move through.

9                   And the third major topic area is that the  
10 rate represents quite a change in the way that Hydro has  
11 its -- for its structure of industrial rates and dealing  
12 with industrial growth. And again, this -- this is sort  
13 of summarized more on page 6 of our evidence.

14                   I'll speak a little more to this as we  
15 move through as well, but noting that the situation in  
16 Manitoba is really not all that unique in many respects,  
17 but that the solution proposed is quite unprecedented.

18                   We also -- in the InterGroup evidence,  
19 there's also an Appendix A, which I probably won't speak  
20 to much. But it's -- it's effectively a few small  
21 details that -- in Hydro's proposal -- that in the event  
22 someone were to move forward with a -- a rate of this  
23 nature and determine that it was -- it was needing to be  
24 implemented, there are a few things in Hydro's proposal  
25 that are -- that are sort of unique items that -- that

1 would probably merit amendment.

2 Now that's sort of two (2) levels of  
3 Hydro's proposal of the case, and they're -- they're --  
4 it's not unusual to have to look at a case at those two  
5 (2) levels. What -- what are the facts, and do they  
6 support the proposal in place?

7 In this case, we -- it was -- there's  
8 something -- there's another level that's quite a bit  
9 unique and it has to do with the concept of the  
10 regulatory review of the proposal.

11 And in that regard, there's sort of two  
12 (2) aspects. One is that there -- that this proposal has  
13 been seen by the Board before, and it was -- was the  
14 subject of a number of Board directives for things that  
15 the Board wanted to see. There was quite a proscriptive  
16 set of -- of concerns that were meant to be addressed,  
17 including practice in other jurisdictions.

18 And -- and to deal with that, we -- we  
19 decided in the spring to start to look at how we could  
20 bring the Board solid evidence about what happens in  
21 other jurisdictions. And, of course, the Board will  
22 recall that at that time we discussed a fellow from  
23 Quebec, who gave us a briefing, and also, Mr. Ostergaard,  
24 who -- who filled us in on the BC situation and -- and  
25 had a few useful comments at that time in this regard and



1 piece, which reviews the situation in BC, focussed on the  
2 matters the Board had specified that it wanted reviewed,  
3 as well as his general comments on regulatory review of  
4 this type of proposal.

5           In respect of the detail matters, we'll  
6 finish up by Mr. McLaren and I going through our -- our  
7 Appendix B and Hydro's rebuttal to them on the -- the  
8 details of the -- sort of the facts underlying Hydro's  
9 case, and -- and I'll close up with any remaining matters  
10 in Hydro's rebuttal.

11           Just to start off, our evidence provides  
12 the -- a summary leading up to about page 7. At page 8,  
13 we set out a typical item in this type of evidence that's  
14 focussed a bit on the MIPUG members, their -- their types  
15 of concerns and the things they -- they asked us to look  
16 at.

17           It's there for people to read in general.  
18 Though when we're dealing with industrials of this type,  
19 whether we're representing them here or in other places,  
20 things become very focussed on their -- over long-term  
21 investment and thinking about the fact that once assets  
22 are put in the ground, they're very much a captive  
23 customer and are reliant on fair treatment by the utility  
24 that they're required to deal with, stability and -- as a  
25 result is key, and protections that -- that a regulatory

1 system provides.

2                   We also put in there a few details,  
3 though, in respect of industrial customers and the  
4 tendency, which is acknowledged by Hydro, for load growth  
5 by industrial customers to be quite lumpy. It doesn't  
6 tend to suit a small percentage change each year. It  
7 tends to be additional processes added or a new pipeline  
8 put in, and it doesn't necessarily suit well the concept  
9 of an annual percentage growth.

10                   Our -- Section 2 of our evidence goes --  
11 goes from about page 10 on, provides the key background  
12 that we reviewed in -- in preparing the evidence, and in  
13 particular, reviews the Board's directives that were  
14 given, the seven (7) or eight (8) items that were built  
15 into the Board's Order 11608, that the Board wanted to  
16 see reviewed, and -- and provides the context for the  
17 rest of the evidence that we had put in, in terms of --  
18 of trying to address the things that the Board said it --  
19 it wanted to focus on.

20                   And Section 3, which starts at about page  
21 14, is where we summarize Hydro's proposal. Given the  
22 exchanges that have gone on, I wouldn't intend to dwell  
23 here for a long time. There are few comments, though,  
24 that I'm -- I'm not sure have -- have been made clearly,  
25 that it's fairly important to -- for us to deal with.

1                   One is, in -- in simple terms, we note  
2 that the rate appears to be designed to be implemented  
3 starting April 1, although there are some other comments  
4 in other places that suggest that the rate would be  
5 implemented more along the lines of July 1st, based on  
6 export prices leading up to March 30th, '09, or perhaps  
7 that the rate would change on July 1st.

8                   And it's a matter which has a little bit  
9 of lack of clarity that we thought should probably be  
10 clarified before we know what we're -- what the Board is  
11 being asked to approve.

12                   And -- and the comments in respect of July  
13 1 are set out at Footnote 15 on page 14 of our evidence  
14 in respect of IR RCM/TREE, Round 1, Question 30.

15                   In this regard, the -- the proposal is, in  
16 essence, not revenue neutral to Hydro starting April 1.  
17 These are loads that exist or that will be in place  
18 before April 1, and it will either be charged a lower  
19 rate or a hydro -- higher rate. Given that these loads  
20 are arising, and -- and have come, and are here, in that  
21 regard, over the very short term, revenue neutral  
22 wouldn't -- wouldn't seem to be a fair definition of --  
23 of the rate impact.

24                   We found Hydro's response -- and I'm at  
25 page 14 of our evidence now. We found Hydro's response

1 to the question PUB/Manitoba Hydro-1C particularly  
2 interesting. This response was also put in the -- the  
3 Board's -- Board counsel's book of documents, Tab 4,  
4 where it sets out Hydro's objectives for the rate.

5           And when I said we organized our comments  
6 around the rate in respect -- in -- in sort of three (3)  
7 packages, these -- these four (4) objectives hel --  
8 helped us organize into that -- that structure.

9           The first objective Hydro had set out was  
10 that the rate was to promote economic and more efficient  
11 price signals. We deal -- we'll deal with efficiency as  
12 we move through. The second was to deal with rate  
13 impact, short-term adverse rate impacts. And the third  
14 was to deal with the adverse impacts on long-term power  
15 supply. Each of those are aligned with the section of  
16 our evidence.

17           I would only note that the fourth as --  
18 bullet here, which was to allow for economic expansion,  
19 Hydro's quote was the rate -- the objective of the rate  
20 is to achieve the above Objectives 1 to 3, while still  
21 providing scope for economic expansion, and Hydro does  
22 not want to unduly constrain economic development.

23           We do not spend a lot of time on this  
24 point, in part, because I don't see how the evidence is  
25 here to determine whether -- what -- what is a due

1 constraint on economic development, whether it's duly or  
2 unduly. The -- the evidence just seems to be absent to  
3 be able to determine whether that objective is being met.

4 In going through the summary of Hydro's  
5 proposal, we spent a fair bit of time, starting at page  
6 17, looking at a comparison to Hydro's previous proposal.

7 And as it has been mentioned a number of  
8 times, Hydro's proposal in the spring was effectively  
9 based on three (3) -- three (3) central assertions or  
10 tenants.

11 One is that we had lots of industry growth  
12 being attracted by low-cost rates in Manitoba, that, as a  
13 result of the gap between marginal cost, as they -- as  
14 they measure it, and imbedded rates, this puts upward  
15 rate pressure on others, and that these customers bring  
16 little economic benefit to Manitoba. That was the  
17 central premise behind the rate proposal we dealt with in  
18 the spring.

19 The new proposal, as I mentioned, drops  
20 the assertion of limited economic benefits to Manitoba.  
21 There's actually effectively no information on economic  
22 benefits in the proposal, with one (1) exception. The  
23 exemption appears to be in respect to government  
24 customers, which are said to be exempted from this  
25 proposal, as they bring -- as they bring benefits. So

1   apparently, benefits is a -- remains a test for  
2   government customers.

3                   I don't think it's a particularly material  
4   exemption, because there's no government customers in the  
5   size range Hydro's looking at either. So it's not a key  
6   item; it's just the one place where economic benefits are  
7   -- or overall social benefits remains mentioned.

8                   The elimination of an economic benefits  
9   test is in a sense bittersweet. There was always a  
10  significant challenge thinking through how to deal with  
11  the concept of -- of an economic benefits test before a  
12  regulatory tribunal designed to set electricity rates.

13                   And it wasn't just MIPUG. It was a number  
14  of people in the room had -- had some discomfort with the  
15  entire package that was -- was being discussed, in  
16  respect of an economics benefits test.

17                   At the same time, the change in the  
18  proposal now effectively goes without saying, that it  
19  does not have a benefits exemption. And as a result,  
20  there's no provision to -- to deal with the fact that  
21  there could be fairly significant adverse impacts on  
22  economic development in certain cases that -- that would  
23  arise from this rate.

24                   There's no provision in the rate, there's  
25  no provision in the proposals before this -- this Board,

1 and there's no provision, as far as we could see, in any  
2 -- any other obvious Manitoba Hydro or other sort of  
3 legislative regimes to deal with -- with the possible  
4 adverse impacts on economic development.

5           There's also, in this -- in Hydro's  
6 current proposal, no level of certainty, particularly  
7 beyond your five, as to who this rate might -- might hit.  
8 And if -- there's certainly no level of certainty or  
9 transparency about what customers might have come, but  
10 may elect not to come now as a result of this rate, we  
11 really don't know what those impacts might be.

12           Hydro makes a statement in a few cases  
13 that existing customers have elected not to expand, or in  
14 -- or in one case that -- in at least one case a customer  
15 elected to -- to locate elsewhere. And we really know  
16 very little about these customers and what -- what  
17 impacts might have arisen in Manitoba, had they chosen  
18 differently, and whether this rate was the -- the key  
19 factor in their decision.

20           But in essence, putting aside the economic  
21 benefits, what the new proposal does is it very much  
22 moves to focus on, as Hydro puts it, rapid growth, not --  
23 not economically, unadventurous growth.

24           And in the context of constraining rapid  
25 growth, it -- it is, in essence, a tool more aligned with

1 planning your system over the longer term than -- than  
2 the previous proposal was.

3           The previous proposal was more aimed at --  
4 at planning an economic system, not a -- not a power  
5 system, if you like. And the end result of this proposal  
6 is, in effect, a much stricter constraints on growth,  
7 give that there's no exemptions.

8           A big new load that would be beneficial  
9 for Manitoba in the previous proposal would have been  
10 allowed to come in embedded cost rates; in the new one  
11 they wouldn't be given embedded cost rates. And as a  
12 result there's a -- I would say a greater likelihood they  
13 wouldn't come. And if they're indeed price sensitive, I  
14 think it's highly unlikely they would come.

15           The third item, where I'm now up to about  
16 page 20, the third item we put is that the new rate  
17 provides greater clarity over the coming five (five) year  
18 planning horizon.

19           And I will say that this point has been  
20 made a number of times for most of the MIPUG members, for  
21 most of the industries in Manitoba, it is easy for them  
22 to look at their exemp -- their current expansion plans.  
23 Those plans are more robust over the next five (5) years  
24 than they are beyond five (5) years. It's easier to plan  
25 the short-term than the long-term. And they can look at

1 the numbers and run the numbers through and determine if  
2 this rate will impact them over the coming five (5)  
3 years.

4                   Assuming the rate is approved as it's been  
5 put forward, there are -- I will assume that all of the  
6 customers have done their math and they know where they  
7 stand in terms of what they expect to occur over the next  
8 five (5) years. Over the long-term, it's another matter.

9                   And the last point that we put in there in  
10 regards to the -- this proposal versus the last is --  
11 this is Item 4, and it's at page 22, and it's issues  
12 regarding the determination of a marginal cost.

13                   By shifting the measure of marginal cost  
14 in this proposal from the previous, Hydro has gone to a  
15 number that, at the time we prepared the evidence, we  
16 said offered greater transparency. Having been through a  
17 few more rounds of IRs and listening to in the room, I'm  
18 not sure it's quite as transparent as we might have  
19 assumed at the time we wrote the evidence.

20                   And so that may be a bit of an update. It  
21 certainly is a different approach. It does not offer the  
22 benefits of a forward-looking approach in -- in terms of  
23 an economic efficiency type of test, and it's not clear  
24 that it offers customers the degree of transparency that  
25 may be appropriate for people who have to pay the rate.

1                   It -- it's clearly an improvement,  
2 however, on the marginal cost studies that Hydro was  
3 planning on relying on before where -- we were given a  
4 number with not much else that was behind it, that wasn't  
5 said to be confidential.

6                   Moving on to Section 4 of the InterGroup  
7 evidence, starting at page 23, the first major topic area  
8 we deal with in reviewing Hydro's proposal is -- it is  
9 the one that Hydro put its Objective Number 1, which was  
10 efficiency and price signals. And I think it's fair to  
11 say that in comparison to rates that are designed to  
12 achieve efficiency, this rate fails any reasonable test  
13 that would be applied to those type of rates. It is --  
14 it is, in essence, almost at odds with the concept of an  
15 efficiency price signal rate.

16                   It doesn't affect many customers. The  
17 customers it's affecting, it is -- are said to be price-  
18 sensitive, but I would say that argument doesn't seem to  
19 bear out, in that anybody who's gonna -- seriously price-  
20 sensitive, wouldn't elect to pay a five point five (5.5)  
21 cent rate when they have three and a half (3 1/2) cent  
22 rates available in other places, if they're really price  
23 sensitive.

24                   Almost by definition, anyone paying this  
25 rate is captive and has to pay it. If they're really

1 price sensitive, they could move. So anybody who's  
2 really price sensitive and looking at Manitoba, is not  
3 going to elect to come here, pay a higher rate and become  
4 more efficient. They -- it won't achieve that objective.  
5 It will achieve them not coming here, if they're really  
6 price sensitive as asserted. And so in that sense it  
7 doesn't achieve any efficiency objectives.

8                   Now what seems to be put forward by  
9 putting the concept of efficiency here is really trying  
10 to shoehorn this idea that efficiency is a good thing and  
11 we should try to design rates for efficiency into a  
12 proposal that's designed for something that's not about  
13 efficiency at all. It doesn't fit.

14                   It's -- it's trying to turn this proposal  
15 into something that it's not. It's oriented towards a  
16 different set of objectives. And as a result, there's  
17 some danger by trying to find the way to take a proposal  
18 that's not oriented efficiency, and amend it and tweak it  
19 into something that it's -- designed to get the  
20 efficiency.

21                   It -- this is a very appropriate debate  
22 for future proceedings and once the appropriate  
23 information is here about efficiency rates. There are  
24 customers who have said that they can benefit from  
25 certain types of structures that allow a greater pursuit

1 of efficiency, whether that's an increased ability to see  
2 benefits from -- from DSM or particularly those who --  
3 who have the ability to shift loads in certain ways with  
4 response to time-of-use, for example. But they require a  
5 fair bit of thinking oriented a very different way than  
6 the information that's -- that's before the Board today.

7           Moving on from the efficiency point,  
8 Section 5 of our evidence deals with the concept of the  
9 bulk power system planning. And as I noted going through  
10 the -- Hydro's proposal, when we were looking at the  
11 previous Hydro proposal, there wasn't a lot of need to  
12 focus on the long-term bulk power system planning in a  
13 sense, because it -- the proposal was not looking to sort  
14 of cap growth the same way. This proposal is very much  
15 aimed at managing growth and managing the load forecast  
16 over the long term and that's a fairly major change.

17           So we spent a fair bit of time on this  
18 topic. It obviously elicited some comments from Hydro in  
19 their rebuttal, particularly pages 3 to 4. But what  
20 became quite clear to us is that the -- the proposal, in  
21 offering the 3 percent growth for five (5) years, and  
22 only 2 percent thereafter, that 3 percent is given no  
23 matter what; the 2 percent is only if you actually use  
24 it.

25           So in many years, the growth in CBL will

1 be zero because customers won't grow. And that it offers  
2 a one (1) time opportunity to advance 10 percent, but  
3 once the customers use that, they can't use it again. So  
4 there's some thought that, in many cases, customers would  
5 be looking to use that as soon as possible; that it  
6 really is a proposal aimed at -- at constraining growth  
7 more so over year six (6) forward, than it is through  
8 years one (1) to five (5), when a lot of other things are  
9 going on on Hydro's system.

10           So we spent some time looking at those  
11 years, years six (6) and on, and -- and what was going on  
12 in Hydro's system at that point, and -- and saw some  
13 reasons for concern, in terms of the power resource plans  
14 and the system planning information that was available to  
15 us, in terms of -- of the overall state of Hydro's system  
16 and the overall plans for being able to pursue greater  
17 levels of exports.

18           Starting at page 26 we review three (3)  
19 different sets of power resource plans and loads, looking  
20 at what is going on in the 2001 proposal, which is the  
21 status update filing, in the situation of 2005, which was  
22 made available in this hearing, and the situation of the  
23 2008 Power Resource Plan. We haven't seen the 2009 Power  
24 Resource Plan. I understand that it may be being filed  
25 shortly.

1                   And we track, going through that; what's  
2 happening on Hydro's system, looking out to the -- the  
3 time of the next major plant about -- in about 2020; and  
4 what are the levels of surplus and shortfalls that arise  
5 then; and also, what's happening with industrial load at  
6 -- at that time. Industrial load is the General Serve  
7 Large greater than 100 kV.

8                   The first thing that I'm not sure most  
9 people are -- appreciate looking through this, is in  
10 about 2020/2021, that -- that period, Hydro's Resource  
11 Plan shows a fairly major retirement of the thermal  
12 plants. Brandon Coal is scheduled to be taken out of the  
13 service at that time, and Selkirk Gas is, similarly,  
14 about that same time, is -- is scheduled to be taken out  
15 of service. Whether that actually occurs, I presume,  
16 will be the subject of life extension discussions as --  
17 as one gets closer to that, but for planning purposes,  
18 those are the numbers that people use.

19                   As a result, there is a -- fairly large  
20 shortfalls that start to show up as soon as you start  
21 retiring those plans, because up to that time you're  
22 relying on those plants being able to supply loads in  
23 drought. And -- and the power resource plans are always  
24 based on the dependable year, the drought year, making  
25 sure you can supply your load. Consequently, you tend to

1 see the next plant almost always required in about that  
2 time period, between 19 -- 2020/2021.

3 Wuskwatim has been talked about in terms  
4 of being now needed for a domestic load. Wuskwatim's  
5 quite a small plant. It's less than 5 percent of the  
6 domestic load; its -- its fairly swings can effect  
7 Wuskwatim. And -- but outside of that, the -- the real  
8 shortfalls, in a power resource planning context, arise  
9 about the time of the -- the retirement of the thermal  
10 plants.

11 In the 2001 Power Resource Plan it was  
12 Wuskwatim that was thought to be needed at that time,  
13 2019 -- or '20/'21, about that time, in order to deal  
14 with the shortfalls that will arise due to the  
15 retirements for thermal. At that time, people were  
16 expecting industrial loads in that same year, '20/'21, to  
17 be about 6 terawatt hours. And based on the forecast  
18 that were put in place, we're -- we're basically on track  
19 for -- to-date, for that forecast. I mean, up until --  
20 actual loads up to 2008.

21 By the time you move to 2005, Wuskwatim  
22 was still expected to be available for export until  
23 '20/'21. Industrial loads to '20/'21 had now been  
24 rached down from 6 to about 5 1/2 terawatt hours; not  
25 a major swing, but -- but dropped, nonetheless. But if

1 you actually look at what was forecasted within the  
2 industrial load forecast, it was a -- quite a dramatic  
3 reduction in the expected growth in the class; less --  
4 much less than 1 percent, you know, in the range of half  
5 a percent, or even lower; point six (.6) in -- over  
6 sixteen (16) years, point two (.2) over a longer period.

7 By the time you get to 2008 things had  
8 changed a fair bit. And this is starting at page 27.

9 We are now talking about a system that  
10 still had shortfalls arising in that same period,  
11 '20/'21. It still had thermal retirements, although they  
12 were being delayed a year to line up with the Conawapa  
13 in-service. And it -- it still had some level of load  
14 growth to their -- except by this point, we're saying  
15 industrials by '20/'21 will be up to about seven (7) -- a  
16 little over 7 terawatt hours. So we went from six (6) in  
17 2001 to about seven (7) in the later forecasts, a swing  
18 of about 1 terawatt hour from the earlier set of  
19 forecasts.

20 Looking to that time frame, there are some  
21 other major changes going on in Hydro's power resourcing  
22 planning. At this point, Hydro is now looking at  
23 bringing on upwards of 8 terawatt hours of new generation  
24 about that time frame between Conawapa Keeyask, as well  
25 as some other resources between now and there.

1                   It is looking at increasing its overall  
2 level of exports by about 5 terawatt hours, related to  
3 already announced firm power commitments.

4                   And it's looking at a total growth  
5 industry in the range of about 2 terawatt hours -- about  
6 one (1) of which is sort of new compared to earlier  
7 forecasts.

8                   Of that growth, half of it is -- or so in  
9 the industrial sector is from pipelines that are not what  
10 you would call "price sensitive." There's obviously some  
11 natural growth going on.

12                   But the sort of rapid growth being  
13 targeted is really quite small in the mix of the overall  
14 resource planning things that are happening in Hydro's  
15 forecast, maybe one-tenth (1/10th) of the story in the  
16 overall planning forecast.

17                   So the thought of -- of needing to do  
18 something with this industrial load at a time when --  
19 when those sort of big numbers are swinging as you look  
20 further out, it's a very small factor.

21                   I'll have some comments about the firm  
22 power sales and Hydro's rebuttal on that as we move  
23 forward. But we were also persuaded that this required  
24 some attention, because in essence, Hydro's proposal  
25 before the Board is very much focussed on, I'll say, a --

1 a preference for protecting exports rather than using  
2 loads domestically and for being able to maintain those  
3 sales going over the tie-lines that may be full and may  
4 not, and doing so as a -- as a -- as a high priority  
5 objective for the corporation.

6                   It's the Board's Order in -- in Board  
7 Order 90/'08, 116/'08, expressed some level of concern  
8 with that focus. The quotes are set out, the bottom of  
9 page 28 to the top of 29.

10                   The Board expressed concern -- not to be  
11 confused with opposition -- but concern over the  
12 magnitude of spending in the pursuit of the -- of the  
13 exports in that way. They expressed concern about the  
14 risks that may come with that and have sought to have a  
15 terms of reference provided for regulatory review of the  
16 overall plans to make sure that they're -- they're -- the  
17 impacts on rates is warranted, is the word the Board  
18 used.

19                   In the context of that concern and  
20 uncertainty, it's in -- in our reading of it, it's a bit  
21 of an odd time to be making a decision in this type of  
22 hearing, that we actually do want to be constraining  
23 industrial loads in order to effectively prioritize  
24 exports, because they are two (2) pieces of the puzzle  
25 that one puts together when looking at advancing plans,

1 whether that's bringing on wind, whether that's bringing  
2 on new loads.

3                   There was some discussion back in the  
4 Clean Environment Commission hearings when Wuskwatim was  
5 being brought on about tie-line constraints and how  
6 domestic load growth actually helps you bring on new  
7 plants. It can actually help getting new developments in  
8 place, because it relieves load on your tie-lines  
9 effectively. It's the same comments that were made  
10 earlier in this hearing.

11                   And so they're -- they're parts of the  
12 same puzzle, if you like. And given the certain level of  
13 uncertainty and concern that was expressed by the Board  
14 in respect of how all those pieces fit together, this  
15 puzzle piece being in play or being locked down seems  
16 somewhat out of step or perhaps premature before someone  
17 is moving on to sort of resolve exactly how that -- that  
18 process unfolding.

19                   And Hydro effectively acknowledges a need  
20 for that type of review. They seem to target it for 2011  
21 in their response of their review and variance.

22                   Now, the rebuttal evidence, in respect of  
23 the overall load balance and long-term load balance notes  
24 some new comments in regards to the committed sales and  
25 the term sheets that have been signed, that these new

1 loads bring with them an opportunity for new imports, a  
2 commitment to new imports in -- in drought years.  
3 Although the comment is a bit less focussed than that.

4           It -- but it effectively asserts that --  
5 that the new contracts bring opportunity for imports in  
6 drought years. We -- we do note the existing firm  
7 contracts when the -- at the time the existing firm  
8 contracts expire, about 3 terawatt hours or a little more  
9 of export sales go away, and about -- but about 1.1  
10 terawatt hours of import sales go away. So I'm presuming  
11 that's the type of offset that people are talking about.

12           Given that there's the comment that these  
13 new sales bring with them greater import guarantees, I  
14 would assume that the relationship is somewhat larger  
15 towards the opportunity to import during drought years  
16 than that, but we have no more evidence than -- than the  
17 comment.

18           Effectively, I would suggest that that  
19 requires some additional attention, that what is putting  
20 forward appears to assert that the law -- the new  
21 contracts being entered into are -- are not quite the  
22 same character of firm sale as the existing -- as the  
23 one's they're replacing or -- or the current nature; that  
24 there's the idea that one (1) can import in drought years  
25 in order to off-set one's ex -- one's export in drought

1 years, effectively means they're not the same character  
2 of firmness that would exist if you had to supply them  
3 all the time.

4                   And -- and concepts like import guarantees  
5 or any -- any terms in a contract of that nature are not  
6 free. They come with overall costs to them; commitments  
7 to the other party to guarantee that they'll make energy  
8 available in a -- in a drought year.

9                   And it would be -- it may be  
10 indecipherable, but it would raise questions about  
11 whether the firm sale price that is being reported, in  
12 essence, is affected by the extent to which it's really  
13 firm or which it's not -- doesn't need to be supplied in  
14 the import -- in import years. In any -- in any event,  
15 exchange doesn't really change anything in the overall --  
16 in the overall assessment we did of the long-term  
17 picture; that we're still talking about swinging a heck  
18 of a lot more export sales and plants than anything we're  
19 doing in the industrial load side.

20                   The final section of our -- our evidence  
21 proper, Section 6, it starts at page 31. And this is  
22 where we really start to deal with the concept of how one  
23 deals with industrial rates and the rate proposal.

24                   The -- we note there in the first  
25 paragraph, line 3, that the approach Hydro has put

1 forward is -- is unprecedented in Canada or anywhere else  
2 that we could determine, anywhere that has a regulated  
3 rate jurisdiction.

4           In essence, by targeting a small number of  
5 loads and linking them to firm export prices, the effect  
6 is that you're charging some subset of your load at  
7 market prices, or market principles mixed into an  
8 embedded cost system; that some group of customers will  
9 be paying whatever the market will bear as opposed to any  
10 linkage to Hydro's costs.

11           We note there that we weren't sure what  
12 Hydro was saying in regards to what this will do to their  
13 overall load development. There are certainly places  
14 where Hydro indicates load growth will be lower as a  
15 result of this proposal than it would have been. An  
16 example, there we put is the response to MIPUG/Manitoba  
17 Hydro-1, Round 1, Question 1E.

18           But at the same time we note comments that  
19 were made in the September 11th workshop, and since --  
20 that some energy intensive loads like -- in this case, a  
21 smelter, it was quite large, would still come at the  
22 higher rates, and that it wouldn't be prohibitive to --  
23 to their ability to come to Manitoba. And we found that  
24 a bit contradictory or perhaps confusing.

25           Hydro tried to deal with in the rebuttal

1 at page 9. We didn't -- I can't say our confusion is --  
2 is alleviated. The -- the aluminum smelter that they say  
3 would have come, or I assume it's an aluminum smelter,  
4 they say would have come, instead went to Quebec.  
5 There's no evidence in why it made its decision. There's  
6 an assertion that Hydro's rate was below its -- its  
7 absolute threshold, but the extent to which rate may have  
8 been a consideration is not clear, and we have no idea  
9 whether that was, in the end, a good thing for Manitoba  
10 or not.

11                   Looking at this -- a specific set of  
12 regulatory principles that this rate challenges, starting  
13 at page 32. Customers who'll be exposed to this rate at  
14 a high level, first and foremost, will have a rate set  
15 based on them, in essence, having to bid against export  
16 markets for the power. If the price goes up in export  
17 markets, they're going to have to see their rate go up as  
18 well, or -- or be willing to forego the power.

19                   Their rates will no longer have any  
20 linkage to Hydro's costs, to the extent to which Hydro is  
21 efficient or not efficient, and they will have very  
22 little impact from any changes in Hydro's overall cost  
23 structure. That is, to say the least, very unusual in an  
24 embedded cost jurisdiction, or in a regulated  
25 jurisdiction, at that; all power price based on

1 incremental values of power rather than the average  
2 values, which is the concept of mixing market into an  
3 embedded system.

4           The way that a market system works is that  
5 the market clearing price, the amount that someone's  
6 willing to pay, is in regards to their last unit of  
7 power, in regards to their -- the extra increment that  
8 they need.

9           So the fact that Minnesota is willing to  
10 pay a certain price to import power, it's comparing  
11 Manitoba Hydro against Minnesota's highest cost resource.

12           It doesn't mean that that's the price  
13 Minnesota's going to charge its customers, because it  
14 charges its customers an average price. It's a regulated  
15 jurisdiction, similar to Manitoba.

16           And so in that regard, the benchmark is --  
17 is very different in that customers in Manitoba will  
18 actually pay a market clearing type of price on a -- for  
19 -- for firm power, whereas in -- in Minnesota, customers  
20 who are served there will receive an average of all of  
21 the Minnesota resources combined.

22           We note that where there are regulated  
23 jurisdictions that elect to take certain rates out of  
24 regulation, the rates are set by government, not by a  
25 linkage necessarily to export powers at all. The rates

1 may be higher or lower than regulated.

2                   There are a few examples. Iron Ore  
3 Company of Canada served in Labrador has its rates not  
4 regulated by the Board. There's the comments in regards  
5 to Quebec having its rate regulated -- not regulated by  
6 the Regie when you get above a certain limit.

7                   It also means that these customers will,  
8 in essence, not share in the overall benefits of Hydro's  
9 ongoing system developments and that, in fact, they may  
10 be -- may be harmed by them if certain aspects of Hydro's  
11 developments are designed to bri -- increase its ability  
12 to capture better firm export prices and that the rate  
13 pressures, in many cases, will be in opposite directions  
14 than what other customers see.

15                   If export prices drop off, these customers  
16 would see a benefit, while other customers, presumably,  
17 would see some level of -- of increase, and whether  
18 that's due to exch -- Canadian/US dollar exchange rates  
19 or -- or other factors.

20                   So in -- in the overall context of, sort  
21 of, the regulatory treatment, people paying this rate  
22 will see a very different outcome than -- than any other  
23 customers in Manitoba.

24                   At page 33 we go on to summarize that in  
25 the context of a regulated rate jurisdiction, there are a

1 set of reasons that one would consider this rate  
2 discriminatory, and indeed in our view, unduly  
3 discriminatory.

4                   It targets no more than a few loads.  
5 Loads that have the exact same characteristics on Hydro's  
6 system will pay different rates at different times, or at  
7 the same time.

8                   It is an aspect of -- of personal  
9 discrimination to that, not just sort of a class  
10 treatment or a different pri -- set of principles. It's  
11 actually a different treatment of customers who have  
12 effectively the same use of power.

13                   That the rate is not linked to anything  
14 going on in Hydro's capital system. And I'll make some  
15 comments in regards to the BC tariff supplement Number 6  
16 in that regard in a moment.

17                   It hasn't -- there's no threats to Hydro's  
18 reliability or to its system, no emergency conditions  
19 we're trying to deal with.

20                   And that there -- there's -- and as I  
21 said, there's no linkage between these customers' charges  
22 and the -- the costs that Hydro is incurring.

23                   And we also, at the top of page 34, go on  
24 to say that, in effect, this proposal is inconsistent  
25 with what we would understand to be the policy, both

1 federal and provincial, in respect of exports, which is  
2 that power to be exported needs to be surplussed to  
3 domestic needs. Those are framed a little bit  
4 differently, depending if you talk to the federal or the  
5 provincial set up.

6 But that they're -- the practical effect  
7 of this proposal is to redefine the surplus by  
8 effectively having domestic customers bid against  
9 exports. In the event exports are -- rates will go  
10 higher than customers here are able or willing to pay,  
11 then the power becomes surplus.

12 We also note that there is regulatory  
13 precedence for dealing with the situation of large  
14 customers, and it will be the last point that I -- that I  
15 deal with in -- in my summary of our -- our -- the main  
16 body of our evidence.

17 At Section 6.2, starting page 34, we set  
18 out that in our view, Hydro has incorrectly assessed and  
19 measured the problem that they're asserting.

20 That due to a number of factors that do  
21 not bear out -- as we'll deal with when we talk about the  
22 appendices -- the Manitoba load growth for industries is  
23 exactly as per the long-term forecast that was in place  
24 almost ten (10) years ago.

25 That the fact that there is a small number

1 of loads that are growing or coming to Manitoba is not at  
2 all unique in regulated rate jurisdictions. Quebec  
3 recently had a 1.8 terawatt hour load, I believe it is,  
4 hook up to their system under -- under the provisions of  
5 the rate structure that's there, and BC's had pipelines  
6 expand in -- at least in the range of what -- Manitoba's  
7 seen some pipeline expansions.

8           Our load growth, if anything, if you look  
9 at the long-term forecasts, the biggest differences in  
10 Manitoba's long-term load forecast -- and indeed between  
11 Manitoba and other provinces -- is the extent to which we  
12 are not seeing some of the same slowdowns other people  
13 are. In -- in BC, there's been huge drop-offs due to the  
14 changes in the forestry industry, and Hydro Quebec cites  
15 it even more.

16           If you go to the Board counsel's book of  
17 documents, I believe it's Tab 7 that does a comparison  
18 between the two (2) load forecasts, and you look ten (10)  
19 years out, what changed between the '05/'06 and the  
20 '06/'07 load forecast? It's the primary metals, by 800  
21 gigawatt hours.

22           In the '05/'06, it presumably had been  
23 dropping off and -- and at least one of those customers  
24 coming close to closing or -- or at least significantly  
25 scaling back. By the time you get to '06/'07, it shows

1 growth in that -- that sector. It's not the -- these  
2 same price-sensitive loads that we've been talking about.

3           So the -- the idea that we're not seeing  
4 the same type of closures or -- or reductions to offset  
5 growth in other categories, that may be a -- quite a  
6 unique factor in Manitoba.

7           The other item that we'll deal with in the  
8 appendices in regard -- is in regards to load growth by  
9 any class raises the rates to all the other classes.  
10 That's -- if you accept the marginal cost being asserted,  
11 it's a -- it's a balanced impact when you finally move to  
12 the cost-of-service type of impacts.

13           And there's a few other points there that  
14 we can go through. The -- I'll -- we'll deal with these  
15 more in the appendices that -- but in respect to, you  
16 know, a lot of the load growth we're seeing, it's from  
17 people like pipelines who have no option but to be here  
18 that they're -- I will deal with the matter of the tie-  
19 lines and the generation constraints in -- as we move to  
20 the appendices.

21           And of course, there's this outstanding  
22 matter in regards to the asserted gap. Hydro effectively  
23 asserts that action is required -- unprecedented action  
24 in Manitoba is required -- because of the gap between  
25 incremental costs for serving new loads compared to the

1 revenue that arises.

2 Now, we put it in exhibit in the 2008 GRA  
3 that showed that that gap in Manitoba, if anything, is  
4 lower than most other jurisdictions we're talking about.  
5 It's about two (2) cents here and about four (4) cents in  
6 BC, for example. And that exhibit -- this was Exhibit  
7 MIPUG-10, and it was in Tab 20 of the book of documents -  
8 - that it is not at all a unique situation in Manitoba.  
9 I believe the Board even commented on that in its order.

10 And, of course, the -- the key item of  
11 concern is that -- is that the Hydro utility may be  
12 further ahead in certain situations -- in many situations  
13 -- dollar-wise, exporting power. It doesn't mean  
14 necessarily that the -- that Manitoba's further ahead,  
15 which would be the public interest concern.

16 The -- and even outside of that, even if  
17 you look at utility planning, there's a lot of reasons to  
18 think that a domestic industrial customer is preferable  
19 to an export market, even outside of the fact that it  
20 allows you to value add to your product rather than sell  
21 it as raw into other markets, where they use it to value  
22 add.

23 The first reason is that domestic  
24 industrial customers are captive. They are a very  
25 reliable market. Hydro doesn't typically have industrial

1 customers closing once they've built a plant here. And  
2 it allows you to plan your sus -- your system on the  
3 basis of that load.

4 And, of course, second, that the loads can  
5 be made without new investment in cross-border  
6 transmission, which is challenging to put in place.  
7 There is some cross-border transmission in Hydro's plans.  
8 But you don't need those same tie-lines in the event that  
9 you have domestic load.

10 And it can -- and, as a result, it can  
11 quite reduce the risks of trying to get on with  
12 developing wind or new Northern generation. It gives you  
13 the reliable customer to -- to make sure that that power  
14 can be -- can be used.

15 Now, my final comment in -- before handing  
16 it off to Mr. Ostergaard are in regards to the last bit  
17 of -- of our evidence, Section 6.3, starting at page 36.  
18 And it's just to follow up on this point that I made  
19 about the precedent from other jurisdictions.

20 The situation Hydro's dealing with is not  
21 unique. It is -- in some -- in some of the assertions  
22 that Hydro makes, such as the gap between marginal costs,  
23 it's actually smaller here than in other places.

24 And as a result, there is a lot of benefit  
25 to be gained from looking at how other places have dealt

1 with this type of problem. Two (2) that have been  
2 routinely cited are Quebec and BC. And we -- we put a  
3 small bullet there. Mr. Ostergaard will tell you more  
4 about the BC situation.

5           And Hydro comments on this in its  
6 rebuttal. In its rebuttal, Hydro effectively says that  
7 we clearly accept discrimination because we support these  
8 other type of approaches, and that it's just a question  
9 of degree.

10           That's not correct. In each of the cases  
11 you're dealing with Quebec or BC, you are not dealing  
12 with discrimination. They have dealt with the issue  
13 without having to put in place a discriminatory rate  
14 regime. In each case, it's for different reasons,  
15 though. It's at the rebuttal at page 11 where they  
16 effectively say that the InterGroup evidence approves of  
17 discrimination.

18           In Quebec you have a maximum obligation to  
19 serve that comes out of policies made by the Government  
20 of Quebec. Discrimination and the question of undue  
21 discrimination is a regulatory concept that arises and is  
22 tested within the regulatory arena, if you like. The  
23 regulatory arena is defined by the laws and policies of  
24 the jurisdiction. In Quebec the regulatory arena is  
25 defined not to include those customers. They're outside

1 the jurisdiction; they're outside the arena.

2                   It's just like you can't intelligently  
3 have a debate as to whether uniform rates is a  
4 discriminatory practice or not. It's the law. It's part  
5 of this -- the -- the framework that we all have to deal  
6 with here. And so it doesn't merit -- it doesn't lend  
7 itself to a test in regards to whether it's  
8 discriminatory or not.

9                   BC is not discriminatory for another --  
10 for a different reason. In BC's case you're dealing with  
11 large industrial customers. You have, effectively, a  
12 system extension type of approach. The system extension  
13 type of approach -- and it's called tariff supplement  
14 Number 6 -- is approved by the BCUC. And Mr. Ostergaard  
15 will go into more detail about this.

16                   It is within the regulatory arena, and it  
17 is set up so that all customers pay contributions when  
18 they connect, as needed, under the same set of  
19 principles. And those principles are that if a customer  
20 is connecting to the utility system that is adequate to  
21 supply the loads that are there, and as a result of that  
22 customer connecting, new assets are required to be put in  
23 place to be able to supply that level of capacity -- new  
24 assets are required to put in place to deliver reliable  
25 power -- that customer pays the increment for those --

1 those assets, except where they're offset by the revenues  
2 of that customer in the future.

3           In the case of a small load, like a  
4 residential customer, you talk about the service drop.  
5 Beyond that, you can't reasonably expect that the  
6 transmission line upgrades that are needed are as a  
7 result of that residential customer. You just can't look  
8 that far into the system; you can't link it to them.

9           You go to a large industrial customer, and  
10 you would look different. You would say, I can think of  
11 that in -- large industrial customer driving investment  
12 in transmission or upgrading a line into wherever, into  
13 Selkirk or wherever you want to pick.

14           If a new customer was to locate there, and  
15 as a result, there were sub -- substation or -- or system  
16 improvements that benefit all customers, but are very  
17 much being driven by that one load, that customer could  
18 be expected to bear some of the costs of that, depending  
19 on the overall revenues they're going to pay.

20           What BC's system does is it defines one  
21 (1) additional threshold at 150 MVA. It says, When you  
22 get to that size, it may not only be a wires-based  
23 solution that's needed to hook up that customer. A  
24 customer of that size may actually require you to think a  
25 bit about your generation on the system, where you have

1 things like combustion turbines, how you deal with  
2 voltage stability in the area, how you deal with  
3 reliability and backup and those type of things.

4           And so you may have to start to think  
5 about generation assets, like combustion turbines or  
6 other things that you need for regional considerations  
7 that are being driven by that customer.

8           And in the event that that customer's  
9 rates over time are not going to be enough to offset  
10 that, they may have to pay a contribution towards those  
11 assets that are required -- not that could be required  
12 but were not really paying for. No, if you really got to  
13 build them, they can -- they can be expected to share in  
14 a -- a piece of that as offset by the revenues they'll  
15 pay over time.

16           So it's -- it's not discriminatory, in  
17 that it's applying the same set of principles to the  
18 loads. It's just that it -- in order to implement it at  
19 different sizes of loads, you have to look to different  
20 implementation mechanisms. You need to look deeper into  
21 the system.

22           I can go through a bit later about the one  
23 case that -- where people have looked at the generation  
24 there.

25           The important thing that neither BC nor

1 Quebec bases its rate structure on effectively and  
2 unlimited obligation to serve major load increments with  
3 -- without having them bear, or be considered to bear,  
4 some -- some portion of the -- of the capacity-related  
5 capital costs that they drive.

6                   And second, each jurisdiction outside of -  
7 - of the one-time payments that are needed, as time goes  
8 on, customers who are under the regulatory rate system  
9 pay the same regulatory rates calculated on the same  
10 basis as every other customer in the system. There's no  
11 "us and them," if you like.

12                   And any charges that are paid on the  
13 capital side are linked to actual capital investment  
14 required to be made by the utility, in terms of  
15 transmission or in terms of generation; and that  
16 separately, any -- any rates designed to deal with  
17 efficiency are a separate consideration and -- and are  
18 developed or dealt with on their own, outside of the --  
19 the question of hooking up a new customer.

20                   Now, that's -- that's the end of our --  
21 our, sort of, section of evidence proper. I'll have some  
22 comments when we get to the appendices. But at this  
23 point, Mr. Ostergaard would -- would go through his  
24 evidence in regards to the items we -- I set out.

25                   MR. PETER OSTERGAARD: Thank you, Mr.

1 Bowman. I believe my remarks will take me to about  
2 10:30, but no later than that.

3                   Mr. Chairman, Board members, I do  
4 appreciate the opportunity to appear before you to  
5 provide information on the situation in BC. Over the  
6 last twenty-five (25) years or so, BC has been through  
7 the same issues you're dealing with in this application.  
8 Your order coming out of the most recent application  
9 noted a need to review relevant experience in other  
10 jurisdictions.

11                   In my report, which was submitted as  
12 MIPUG-3 evidence, I feel I can help the Board with a full  
13 understanding of the way BC's treatment of the issues you  
14 are facing can provide you with options that, in the long  
15 run, could work for Manitoba, particularly the -- in  
16 these uncertain economic times.

17                   Section 2 of my report responds to the  
18 specific issues you identified in Section 16.7 of your  
19 order, and I'll touch upon these in -- in these opening  
20 remarks.

21                   The role of a single Crown utility in BC  
22 is consistent with other provinces, like Manitoba, where  
23 Hydro generation dominates. Even in the US, with it's  
24 preference for investor-owned utilities, the two (2) main  
25 publicly owned utilities -- Bonneville Power and

1 Tennessee Valley Administration -- were created in the  
2 '30s to develop hydroelectric resources.

3 I think there's two (2) reasons for this:  
4 the natural monopoly and essential service nature of  
5 electricity and the important role large projects play in  
6 job creation and investment.

7 Along with Quebec, BC and Manitoba vie for  
8 the title of having the lowest electricity rates in  
9 Canada. Both the Manitoba and BC governments look to  
10 their Crown utilities to provide revenues to government  
11 through sources like water rentals, dividend payments,  
12 grants in lieu of taxes, and fees for debt guarantees.

13 Both Crown public utilities are regulated  
14 by public agencies, the BC Utilities Commission and the  
15 Manitoba Public Utilities Board.

16 In BC, the government has not hesitated to  
17 use energy policies which are sometimes enshrined in  
18 legislation. And enabling legislation also provides the  
19 government of BC and the Minister with the ability to  
20 provide transparent directives to both BC Hydro and the  
21 BCUC. In addition, exemption orders articulate and  
22 sometimes limit the BCUC's powers to regulate BC Hydro.  
23 In the words of a former BCUC chair, quote, "Uneasy is  
24 the head of he who regulates a Crown."

25 From my limited experience, an

1 understanding of your regulatory framework, legislation  
2 is the main way that Manitoba sets out the matters over  
3 which you have jurisdiction, but there are differences  
4 between the two (2).

5 BC Governments have issued four (4) energy  
6 plans since 1990, two (2) of them in the last six (6)  
7 years. Even though electricity meets less than a quarter  
8 of BC's energy needs, all these plans have a heavy  
9 emphasis on electricity.

10 They have also been -- there have also  
11 been sucse -- several government-initiated BCUC inquiries  
12 on -- and task force reports. Successive BC governments  
13 are very active in establishing electricity policy and  
14 expect BC Hydro and the BCUC to implement electricity  
15 policy.

16 It seems to me, from my limited exposure  
17 to Manitoba's situation, your provincial government is  
18 leaving Manitoba Hydro and the PUB with the very  
19 difficult job of making important policy decisions.

20 Another difference is export policy. In  
21 BC exports are made only after ensuring domestic demand  
22 requirements can be met. So domestic needs drive the  
23 export policy, not the other way around. And while past  
24 BC governments have toyed with the idea, there is no pre-  
25 building of BC Hydro projects for export.

1                   Another big difference is the current  
2 domestic supply and domestic retry -- requirement  
3 situation and the way BC Hydro will close the gap. The  
4 opening paragraphs of the electricity section of the 2007  
5 energy plan read, in part, quote:

6                   "BC has been blessed with an abundant  
7 supply of clean, affordable, and  
8 renewable electricity. But today, as  
9 BC population has grown, so too has  
10 their demand for electricity. We are  
11 now dependent on other jurisdictions up  
12 to 10 percent of our supply. BC Hydro  
13 estimates demand for electricity will  
14 grow by up to 45 percent over the next  
15 20 years. We must address this ever-  
16 increasing demand to maintain our  
17 secure supply of electricity and the  
18 competitive advantage in electricity  
19 rates."

20                   End of quote. So the number 1 policy  
21 under electricity is, quote:

22                   "Ensure self-sufficiency to meet  
23 electricity needs by 2016."

24                   Close quote. And the number-one energy  
25 efficiency policy is, quote:

1                   "Set an ambitious conservation target  
2                   to acquire 50 percent of BC Hydro's  
3                   incremental resource needs through  
4                   conservation by 2020."

5                   Close quote. Nowhere in the energy policy  
6                   is there any suggestion of singling out new customers or  
7                   existing classes of customers as a way to dampen domestic  
8                   demand.

9                   And the final relevant difference is BC's  
10                  continuing reliance on independent power producers to  
11                  meet most of BC Hydro's supply side resource needs. BC  
12                  Hydro will continue to invest in its heritage assets and  
13                  work towards what could be a cabinet decision in future  
14                  on the 900 megawatt Site C project on the Peace River.

15                  So how did BC get to this policy and  
16                  regulatory framework? Attachment B to my report sets out  
17                  BC Hydro's history and financial structure. For now,  
18                  it's enough to note that BC Hydro functioned as a large  
19                  construction company through the '60s and '70s, with  
20                  thousands of staff and contractors building plants and  
21                  transmission lines.

22                  Its achievements were remarkable, building  
23                  three-quarters (3/4s) of today's capacity, inclement --  
24                  implementing the Columbia River Treaty, rural  
25                  electrification, rate reductions, and service

1 improvements.

2                   With the arrival of Lumpy/Peace River  
3 generation in the early '70s, short-term surpluses  
4 recurred frequently, culminating with the fact that  
5 Revelstoke was entirely surplussed to provincial needs,  
6 but it was finished in the mid-'80s.

7                   Researchers, including Dr. Mark Jaccard,  
8 concluded that most of this Revelstoke surplus was  
9 exported on spot markets at average prices of two point  
10 four (2.4) cents per kilowatt hour, while the levelized  
11 cost from the dam, for which BC Hydro domestic ratepayers  
12 were responsible, was four point two (4.2) cents.

13                   Also around that time, the Site C project  
14 application was referred to the BCUC for a report. The  
15 provincial cabinet accepted the BCUC's recommendation  
16 that it be delayed until there was better evidence it was  
17 needed.

18                   So by the early '90s, BC Hydro had been  
19 transformed away from its former role as a designer and  
20 builder of projects. Instead, new resources were being  
21 acquired in a way similar to today's, namely from  
22 independent power producers, upgrading existing  
23 generation, and power smart, but at a slower rate, as the  
24 Revelstoke surplus was being absorbed.

25                   Powerex had been created as well. One (1)

1 of its early roles was to facilitate exports, as long as  
2 the electricity came from private generation built for  
3 the export market and sales were for a limited term,  
4 after which the generation would be repatriated for  
5 domestic use.

6                   While there were several responses to  
7 Powerex's requests for expressions of interest, no  
8 private generation was built for export. I mention this  
9 to underscore the public sensitivities that continue  
10 today in British Columbia about tying exports to  
11 projects, particularly when Powerex is owed over \$200  
12 million for keeping the lights on in California in 2001,  
13 and at the same time, being sued by those owing the money  
14 for alleged market manipulation.

15                   So today Powerex focusses on near to mid-  
16 term trading positions, backing forward deals with the  
17 supply capability of the BC Hydro dams and reservoirs,  
18 the province's downstream benefits, and other supply  
19 contracts. Powerex earns over \$50 million per year just  
20 by using the transmission and reservoir storage capacity  
21 to import electricity during low price times and export  
22 it when prices are higher.

23                   Next time you're in Vancouver, considering  
24 -- asking BC Hydro or Powerex to visit the Powerex  
25 trading floor to get a better appreciation of the size

1 and complexity of their gas and electricity trading  
2 activities. Powerex's top traders, in some years, are  
3 the highest paid employees in BC Hydro and its  
4 subsidiaries.

5                   Attachment C of my report provides a  
6 summary of the use of a trade income deferral account,  
7 and the \$200 million annual cap on trade income that  
8 offsets the revenue requirements. Policy Number 2 of the  
9 2002 Energy Plan stated that all BC Hydro ratepayers will  
10 continue to benefit from electricity trade. And this was  
11 affirmed in the 2007 plan.

12                   Domestic ratepayers pay for the system  
13 that enables much of the export revenues, so they are the  
14 ones that should benefit. The province decided that any  
15 net trade revenues above \$200 a year go to the  
16 government. And if Powerex was ever going to lose money,  
17 the ratepayer is protected and the loss would come out of  
18 the dividend paid to the province.

19                   Given that trade income average is around  
20 \$160 to \$180 million a year, rates are about 5 to 6  
21 percent lower than they'd be without trade income. I'd  
22 like to spend a couple of minutes tracing the way  
23 electricity policy has evolved, leading to the creation  
24 of the Step Rate Structure, first for industrials, and  
25 very recently for residential customers.

1                   In 1980 the province released its first  
2 energy policy called An Energy Secure British Columbia.  
3 It announced the creation of the BCUC and put BC Hyrdo  
4 under its jurisdiction.

5                   To directions for the '90s appeared in  
6 1990 with two (2) priorities, efficient energy and clean  
7 energy, and two (2) left over from the previous decade,  
8 secure energy and energy for the economy. Two (2)  
9 investigations in the mid-90s looked at reforming the BC  
10 electricity market to make it more competitive. The  
11 first was a BCUC review. It found the driving forces for  
12 reform didn't exist in BC. The second, a task for headed  
13 by Mark Jaccard, was unable to agree on any components of  
14 market reform.

15                   In August 2001, the newly elected  
16 government commissioned a task force on energy policy to  
17 provide recommendations. The most controversial was to  
18 move to market pricing for electricity and ensure strong  
19 price signals were sent to consumers. The market pricing  
20 recommendation was explicitly rejected, and the price  
21 signal, one (1) was partially adopted in the 2002 Energy  
22 Plan with the announcement of the step rate policy for  
23 industrial consumers.

24                   A revenue neutral two (2) step electricity  
25 rate charges less for the first block of electricity

1 consumed and more for the second block, relative to what  
2 was a prevailing flat rate. At the higher second block  
3 the consumer has a greater incentive to cut back on  
4 electricity use, or to invest in cost effective energy  
5 efficiency or self-generation for that portion of  
6 consumption -- have the existing consumption level, the  
7 total cost to the consumer, and the total revenue to the  
8 Utility are unchanged.

9           Attachment C in Section 6 of my report  
10 provides details on the subsequent BCUC heritage contract  
11 and step rate inquiry and report; its acceptance by the  
12 government; the BCUC negotiated settlement process on  
13 details and procedures; the fifty-four (54) page customer  
14 baseline load determination guidelines, the CBL tariff  
15 practices; the first two (2) annual reports on stepped  
16 rates; and the upcoming review, so BCUC can send a  
17 stepped rate evaluation report to the government in late  
18 2009.

19           The 2007 energy plan also requires BC  
20 utilities to explore new rate structures and encourage  
21 energy efficiency and conservation. BC Hydro responded  
22 with a residential inclining block rate application, and  
23 a two (2) step residential rate was introduced this past  
24 October.

25           And as Mr. Bowman mentioned, as for new

1 industrial customers, tariff supplement Number 6 was  
2 approved by the BCUC in 1991. It was the product of  
3 several years of on-again, off-again discussions among BC  
4 Hydro, its industrial customers, and other customer  
5 groups to develop both a standard form electricity supply  
6 agreement and a standard form facilities agreement.

7 A BCUC sponsored negotiated settlement  
8 process led to agreement on both. As the BCUC wrote in  
9 its 191 -- 1991 decision:

10 "Through the dedicated efforts and  
11 goodwill of representatives of BC  
12 Hydro, the industrial users, and  
13 commission staff, compromises were  
14 reached on contentious issues. This  
15 led to the preparation of two (2)  
16 important agreements in a form  
17 acceptable to all of the parties  
18 involved."

19 The decision also quoted BC Hydro's  
20 counsel as adding, quote:

21 "I firmly believe that this process has  
22 produced a product that is far superior  
23 to that which could have been achieved  
24 in a traditional adversarial hearing,  
25 while simultaneously saving the

1                   commissioners and others the time and  
2                   expense of such a hearing."

3                   Section 5 of my report provides examples  
4 of tariff supplement Number 6. That tariff sets out the  
5 manner in which the costs of connecting a new industrial  
6 customer are to be shared between the new customer and BC  
7 Hydro's existing customers.

8                   And as Mr. Bowman mentioned, it also has a  
9 150 megavolt-ampere threshold to reflect the point at  
10 which new customers should be expected to pay the full  
11 costs of new assets, including generation and high-  
12 voltage transmission that would be needed to be added on  
13 behalf of the new industrial customer.

14                  Perhaps the most contentious policy  
15 arising from the 2007 energy plan is the one dealing with  
16 self-sufficiency. The province wants to insure a  
17 reliable, made in BC supply. And by 19 -- or sorry,  
18 2016, BC Hydro is to have enough BC-generated power at  
19 all times to meet its domestic customers' needs.

20                  On top of this, no later than 2026, BC  
21 Hydro will acquire a further 3,000 gigawatt hours of an  
22 energy under critical water for insurance. This self-  
23 sufficiency plus insurance policy is shrine -- is  
24 enshrined in Special Direction Number 10 to the BCUC.

25                  What this means is that in all years,

1 starting in 2016, BC Hydro will have a surplus, which  
2 will need to be exported or perhaps sold domestically at  
3 a discount, as has happened in the past.

4           There have been no moves to set a higher  
5 rate to new domestic loads benchmarked on the price of  
6 exports and expanding domestic load arising from new and  
7 existing customers is not penalized for any negative  
8 impact that new loads may have on export revenues.

9           It's difficult to know the eventual impact  
10 of self-sufficiency on rates or BC Hydro's profitability  
11 and the province's economic development. There are  
12 concerns that in some years, BC Hydro will be spilling  
13 water from its reservoirs in the spring freshet because  
14 its intake or pay contracts with IPPs.

15           Conversely, supporters of self-sufficiency  
16 note the positive economic impacts through IPP-related  
17 jobs and investment.

18           So in BC the gap between heritage embedded  
19 costs electricity and the marginal cost of new supply is  
20 not a reason to impose marginal cost-based rates targeted  
21 at new or expanding loads for any particular customer or  
22 customer class.

23           As for electricity trade, exports are made  
24 only after ensuring BC Hydro domestic customer needs are  
25 met, which helps explain why Powerex focuses on near and

1 mid-term sales. Powerex buys gas and electricity from  
2 outside BC to support BC Hydro's domestic needs and to  
3 meet its own trade commitments.

4           A time-of-use rate option was developed as  
5 part of the stepped rate in response to a reference in  
6 the 2002 energy plan to prepare one. To date, no  
7 industrial customers have chosen this option. But under  
8 this year's Utilities Commission Amendment Act, by the  
9 end of 2012, BC Hydro is to install smart meters for  
10 residential customers, opening the door to residential  
11 time-of-use rates.

12           So I view this application as asking the  
13 PUB to make electricity policy in the public interest,  
14 not just in the interest of ratepayers. Care needs to be  
15 exercised in trying to avoid choosing winners and losers  
16 and singling out new or existing customers for special  
17 treatment.

18           If Manitoba is interested in managing  
19 efficiency within an embedded cost structure, then  
20 consider looking at stepped rates. It won't be quick or  
21 easy. It took over three (3) years of concerted effort  
22 and several steps in BC and a report card on how it's  
23 working must be filed with the government by the end of  
24 2009. But the application before you takes you down a  
25 different path, as you are being asked decide what -- who

1 should be detached from embedded cost rates, rather than  
2 being asked to find a way to send price signals to all  
3 users.

4                   With respect to new loads, consider  
5 looking at standard form facilities agreements similar to  
6 Tariff Supplement Number 6, which is meant to address  
7 specific concerns regarding costs to connect new  
8 industries. I say similar to Tariff Supplement Number 6  
9 because it is far from perfect, despite taking several  
10 years of negotiations before it was approved by the BCUC  
11 back in 1991.

12                   But again, the application before you  
13 takes you down a different and narrow path, one (1) where  
14 you are being asked to treat new industries interested in  
15 locating and investing in Manitoba in a completely  
16 different way than the industries that are already here.

17                   Thanks again for the opportunity to  
18 participate in this proceeding. I hope the policies,  
19 principles, and perspectives, from BC's experiences will  
20 help the Board and the participants engage in a more  
21 informed discussion of the issues before you.

22                   THE CHAIRPERSON: Thank you, gentlemen.  
23 We will stand down now and we will come back together  
24 again at one o'clock.

25

1 (MIPUG PANEL RETIRES)

2

3 --- Upon recessing at 10:30 a.m.

4 --- Upon resuming at 1:05 p.m.

5

6 THE CHAIRPERSON: Okay, folks. Ms.  
7 Ramage, you have got another exhibit, Number 19, here?

8 MS. PATTI RAMAGE: Yes, in reviewing  
9 Manitoba Hydro's records, the undertakings aren't always  
10 marked as undertakings. It's that old, We've got to  
11 learn to use that word if we want it. But this was an  
12 undertaking that Mr. Surminski gave to Mr. Peters  
13 regarding the Power Resource Plan.

14 Now we recognize that, having handed it  
15 out now, we might not be a -- Mr. Peters may not be able  
16 to review it in enough detail to ask anything -- or all  
17 of his questions. But subject to that, this panel still  
18 is available now to answer any questions on other  
19 undertakings or this one if people are able to process  
20 the information.

21 THE CHAIRPERSON: Mr. Peters...?

22

23 MANITOBA HYDRO PANEL:

24 VINCE WARDEN, Resumed

25 ROBIN WIENS, Resumed

1 MICHAEL DUDAR, Resumed

2 HAROLD SURMINSKI, Resumed

3 DAVID CORMIE, Resumed

4

5 RE-CROSS-EXAMINATION BY MR. BOB PETERS:

6 MR. BOB PETERS: Yes, thank you. I was  
7 going to say to Ms. Ramage that just because I have more  
8 time doesn't mean the questions will get more intelligent  
9 but...

10 Mr. Surminiski, you worked overtime to  
11 prepare Manitoba Hydro Exhibit 19, sir, in an answer to a  
12 question that I had of you previously?

13 MR. HAROLD SURMINSKI: We had to modify  
14 it a little bit; wasn't overly onerous.

15 MR. BOB PETERS: All right. My  
16 recollection of what -- where we were having our  
17 discussion is that you indicated, certainly in the  
18 rebuttal and in evidence to me, that some of your new  
19 term-sheeted export arrangements contained and will  
20 contain provisions of import guarantees in the drought  
21 years.

22 Is that correct?

23 MR. HAROLD SURMINSKI: Yes, that's  
24 correct.

25 MR. BOB PETERS: And these import

1 guarantees, you call them "energy guarantees," correct?

2 MR. HAROLD SURMINSKI: Yes, we do under  
3 adverse flow conditions.

4 MR. BOB PETERS: Adverse flow means  
5 drought years? Below-dependable years?

6 MR. HAROLD SURMINSKI: Dependable, equal  
7 to dependable.

8 MR. BOB PETERS: Or below?

9 MR. HAROLD SURMINSKI: Or below.

10 MR. BOB PETERS: By definition, do you  
11 have below-dependable flows?

12 MR. DAVID CORMIE: Below-dependable flows  
13 are a possibility, but that's not what Manitoba Hydro  
14 plans for.

15 MR. BOB PETERS: So when you say you have  
16 import -- import guarantees, you're thinking that they  
17 would apply in the years in which you have dependable  
18 flow, which is your low-flow years?

19 MR. DAVID CORMIE: They are available,  
20 yes.

21 MR. BOB PETERS: And, Mr. Surminski, does  
22 Exhibit 19 demonstrate to the Board the quantum of those  
23 import guarantees under the Minnesota Power sale and the  
24 Wiscwon -- Wisconsin Public Service sale?

25 MR. HAROLD SURMINSKI: Yes, they are

1 included in the input category as the common -- that's  
2 the bottom line, just -- just in the first block, just  
3 above the total power resources, WPS/MP proposed sale and  
4 the imports that start at three eighty-three (383) in  
5 2018 and go up to as high as twenty-three zero one (2301)  
6 in 2023.

7

8 (BRIEF PAUSE)

9

10 MR. BOB PETERS: Mr. Surminski, I'm  
11 looking at Table A-1, and I'm going down to your imports.  
12 And I see -- I see a "Total Contracted" line item.

13 Are you there?

14 MR. HAROLD SURMINSKI: Yes, I am.

15 MR. BOB PETERS: Can you explain to the  
16 Board what "total contracted" means?

17

18 (BRIEF PAUSE)

19

20 MR. HAROLD SURMINSKI: Yes, a total  
21 contracted means guarantees or import return energy  
22 associated with other -- with sales other than the NSP500  
23 extension and the -- the new WPS and MP.

24 And in this case, the eight hundred (800)  
25 would be an assumption with the diversity, that the

1 diversity sales would be continued and the guarantee  
2 associated with that would continue.

3 MR. BOB PETERS: So the first line,  
4 "Total Contracted," is not to refer to the NSP sale or  
5 the Wisconsin Power sale.

6 MR. HAROLD SURMINSKI: It is the earlier  
7 form of the NSP sale, until it becomes the extended in  
8 2015.

9 MR. BOB PETERS: And after 2015, on that  
10 "Total Contracted" line, when it drops down to 800  
11 gigawatt hours a year, that's the diversity arrangement  
12 that Manitoba Hydro assumes will continue?

13 MR. HAROLD SURMINSKI: Yes.

14 MR. BOB PETERS: And factually, will it  
15 continue? There's no -- or is there a contract in place,  
16 or not yet?

17 MR. DAVID CORMIE: There's no contract in  
18 place yet for that.

19 MR. BOB PETERS: But you expect to put  
20 one in place?

21 MR. DAVID CORMIE: Yes, we do.

22 MR. BOB PETERS: All right. Then going  
23 to the NSP Xcel sale extension, this is, in a way, a  
24 continuation of -- of what you had previously with NSP  
25 and Xcel?

1 MR. DAVID CORMIE: Yes, it is. The  
2 existing diversities go all the way to 2019. And as part  
3 of our negotiations on the extension of the -- the sale,  
4 we intend to renegotiate the diversities and -- and start  
5 them under different terms and conditions back in 2015.

6 And that energy guarantee is the energy  
7 guarantee that would be associated with the -- the terms  
8 of the diversity sale that have been agreed to by -- by  
9 Xcel as part of the 500 megawatt sale extension.

10 MR. BOB PETERS: Is that under contract?

11 MR. DAVID CORMIE: We have a binding term  
12 sheet for that.

13 MR. BOB PETERS: And then, if we're  
14 looking at the WPS, the Wisconsin Public Service sale,  
15 there's also some import guarantees coming back from that  
16 utility?

17 MR. DAVID CORMIE: Yes, and it's more  
18 than a guarantee that there is a 500 megawatt power  
19 purchase call option that we've negotiated.

20 MR. BOB PETERS: In terms of the imports  
21 that you're getting, are those annual guarantees whenever  
22 needed by Manitoba Hydro, up to an annual maximum?

23 MR. DAVID CORMIE: Those numbers are the  
24 -- the maximums that are available in any year.

25 MR. BOB PETERS: Yes, I understand that

1 those are the maximum available in the year.

2 Does Manitoba Hydro have to take them at  
3 any specific time during the year, or is that the maximum  
4 available when called on by Manitoba?

5 MR. DAVID CORMIE: You're -- you're  
6 correct, Mr. Peters, it's a call option. It's Manitoba  
7 Hydro's option to buy the energy if required.

8 MR. BOB PETERS: And there's no monthly  
9 or daily limit required?

10 MR. DAVID CORMIE: The only limit is that  
11 it's limited to 500 megawatts in any one (1) hour. With  
12 the diversity or the Xcel sale extension, it's limited to  
13 350 megawatts in any hour.

14

15 (BRIEF PAUSE)

16

17 MR. BOB PETERS: Thank you. Mr. Dudar --

18 MR. DAVID CORMIE: Mr. Peters, I just  
19 wanted to point out that you'll notice that the surpluses  
20 that are created at the bottom of that table, in -- in  
21 all years, they're positive for the years of the sale,  
22 and they exceed the -- the energy guarantee from the  
23 Wisconsin and the MP Power sales.

24 So the energy guarantees are not needed to  
25 serve the sale. The sale to Wisconsin and Minnesota

1 Power is coming out of new hydraulic. It's not coming  
2 out a -- a pool of system resources that would -- would  
3 include the energy guarantees. But it's a resource that  
4 is available for -- for us to use to serve our other  
5 requirements.

6 MR. BOB PETERS: I'm not sure I follow  
7 that, Mr. Cormie. When I look down on -- let's pick  
8 2015/2016 fiscal year, I see your total power resources  
9 as 31,652 gigawatt hours that year.

10 MR. DAVID CORMIE: I think, Mr. Peters,  
11 you -- you need to refer to a year in which the  
12 Wisconsin sale is in service. For example, take the year  
13 of say '22/'23.

14 MR. BOB PETERS: All right. I now have  
15 your point. Your point to the Board, Mr. Cormie, is that  
16 the surplus, the bottom line number, literally, on that  
17 page, shows that the import energy that may be coming  
18 from Wisconsin is not needed and you'd still have a  
19 surplus.

20 MR. DAVID CORMIE: That's correct. And -  
21 - and the intent of those sales is that they will be made  
22 out of new hydraulic resources, not out of energy that's  
23 purchased in the low flow year to serve the sale. So the  
24 -- the whole concept there is that Wisconsin wants to buy  
25 new hydro power; they don't want to buy power that

1 they've supplied to us and -- and we're returning it to  
2 them.

3 MR. BOB PETERS: This question goes by my  
4 memory, Mr. Cormie. I thought at the GRA, you told the  
5 Board that not only were you extending the NSP/Xcel sale  
6 but there was a new sale to Minnesota and also a new sale  
7 to Wisconsin.

8 Am I correct in my recollection?

9 MR. DAVID CORMIE: No, you're not  
10 correct. I wasn't at the hearing in -- in April, but Mr.  
11 Surminski may remember that.

12 MR. BOB PETERS: Point taken. Mr.  
13 Surminski, was there a Minnesota Power sale mentioned to  
14 this Board at the General Rate Application?

15 MR. HAROLD SURMINSKI: Yes, and it's  
16 included in the -- in the WPS/MP -- the last line is the  
17 combination of the two (2).

18 MR. BOB PETERS: Thank you. Now, Mr.  
19 Dudar, you had indicated in your evidence, through your  
20 counsel, I think to myself and also to Mr. Landry, that  
21 one (1) of your responsibilities was to physically meet  
22 with Manitoba Hydro's top ten (10) customers and discuss  
23 this Energy Intensive Industry Rate that's now before the  
24 Board?

25 MR. MICHAEL DUDAR: That's correct.

1                   MR. BOB PETERS:    Did you in fact  
2 physically meet with -- with all ten (10) or were some of  
3 these conversations over the phone?

4                   MR. MICHAEL DUDAR:    Some were in person  
5 and some were over the phone.

6                   MR. BOB PETERS:    And as part of your  
7 discussions with these companies, these are the companies  
8 that, in fact, gave you their load forecasts, and that's  
9 what we've talked about the last two (2) or three (3)  
10 days.

11                  MR. MICHAEL DUDAR:    That's correct.

12                  MR. BOB PETERS:    When you -- have you  
13 recently had discussions with them in light of the  
14 economic turmoil that seems to be existing in the world?

15                  MR. MICHAEL DUDAR:    We've had some  
16 discussions and their plans have changed.  Some are --  
17 have deferred moving forward with some of their  
18 expansions and others are still continuing as planned.

19                  MR. BOB PETERS:    Continuing as planned,  
20 at least at this point in time?

21                  MR. MICHAEL DUDAR:    That's correct.

22                  MR. BOB PETERS:    And the reasons for some  
23 of those plans changing would be because economic  
24 hardship may befall some of those ten (10) companies,  
25 correct?

1 MR. MICHAEL DUDAR: That's correct.

2 MR. BOB PETERS: And does Manitoba Hydro  
3 have an ability to monitor the fiscal health of those top  
4 ten (10) customers? Is that something you do?

5 MR. MICHAEL DUDAR: We do credit checks  
6 on customers. I'm not sure exactly what the -- the  
7 framework is for doing that, but I know we do that on  
8 occasion.

9 MR. BOB PETERS: But, for example, the  
10 share prices on those that are publicly traded, are you -  
11 - does Manitoba Hydro follow those and monitor the -- the  
12 share capital of those companies?

13 MR. MICHAEL DUDAR: My account managers  
14 do do that sort -- sort of thing.

15 MR. BOB PETERS: And as a result of your  
16 monitoring, do you also find out what their annual  
17 revenue expectations are and which companies may be in a  
18 situation where they forecast losses as opposed to  
19 profits?

20 MR. MICHAEL DUDAR: My account managers  
21 do that as well.

22 MR. BOB PETERS: And they do that through  
23 information received from these companies themselves?

24 MR. MICHAEL DUDAR: It's a combination of  
25 information they've received from companies and

1 information they garner from the annual reports.

2 MR. BOB PETERS: Would it be fair to say  
3 that, collectively, all ten (10) of your top ten (10)  
4 customers are either suffering or starting to suffer as a  
5 result of economic turndown?

6 MR. MICHAEL DUDAR: I -- I would say  
7 that's probably fair to say.

8 MR. BOB PETERS: Can you indicate to this  
9 Board the magnitude of such economic impact?

10 MR. MICHAEL DUDAR: No, I can't.

11 MR. BOB PETERS: What about in terms of -  
12 - I think earlier in the proceedings I probably threw out  
13 a number of approximately 700 gigawatt hours of growth  
14 that was being targeted.

15 Relative to that number of 700 gigawatt  
16 hours, can you indicate to this Board what the downturn  
17 will actually result in, in terms of growth, at least as  
18 your plans are today?

19

20 (BRIEF PAUSE)

21

22 MR. MICHAEL DUDAR: I -- I'd say probably  
23 about a quarter to a half of it could be -- could be  
24 deferred to some point in the future. Some of it is  
25 associated with environmental load changes, and depending

1 on -- on legislation and regulation, that my be required  
2 to go forward anyway.

3 MR. BOB PETERS: Thank you, Mr. Dudar.  
4 Does that mean that the revenue forecast that you have  
5 provided to the Board would also -- maybe should be  
6 downgraded, at least in the near term by 25 to 50  
7 percent?

8 MR. MICHAEL DUDAR: No, my -- my changes  
9 are primarily for -- for customers that were in the  
10 mining and the -- the pulp and paper industry.

11 MR. BOB PETERS: And so the -- the  
12 sectors of the economy, such as the pipeline and the  
13 chemical industry, you're not, at this point, aware as to  
14 what downturn, if any, they will face in the upcoming  
15 months or years?

16 MR. MICHAEL DUDAR: No.

17 MR. BOB PETERS: And those changes in --  
18 in growth forecasts are not reflected in any of the  
19 filings that are before the Board, in terms of the growth  
20 above baseline or the growth below baseline, because  
21 those were based on a previous load forecast, correct?

22 MR. MICHAEL DUDAR: That's correct.

23 MR. BOB PETERS: Was that the '08  
24 forecast or the '07?

25 MR. MICHAEL DUDAR: The customer's -- the

1 customer's expansion plans are -- are fluid and they  
2 change on -- on regular basis, and numbers that we  
3 received for the '08 forecast would have been modified  
4 slightly, based on conversation. But I -- I'm really  
5 referring to information that -- that we had --  
6 conversations I've had with customers in the recent  
7 times.

8 MR. BOB PETERS: Indicating that the '07  
9 forecast is still relied on by the Corporation as being  
10 accurate for purposes of this application?

11 MR. ROBIN WIENS: That would be the '08  
12 forecast, Mr. Peters.

13 MR. BOB PETERS: Sorry, the -- the  
14 '07/'08 fiscal '08 forecast.

15 MR. ROBIN WIENS: The forecast that would  
16 have completed in May or June of 2008.

17

18 (BRIEF PAUSE)

19

20 MR. BOB PETERS: In the book of docu --  
21 I'm sorry, Exhibit 17, I had a question on that document.  
22 It was a filing. And if you're looking for Manitoba  
23 Hydro Exhibit 17, Mr. Wiens, I think this may have been  
24 information you put on the record, and your counsel had  
25 it also reduced to writing.

1 (BRIEF PAUSE)

2

3 MR. ROBIN WIENS: Yes, Mr. Peters.

4 MR. BOB PETERS: And at the same time, if  
5 we're turning up documents, Mr. Wiens, in the book of  
6 documents, Tab 6, in the last page of the book of  
7 documents, Tab 6, contains some actual load growths for  
8 the General Service Large class. I might have a couple  
9 of questions on that as well.

10 Mr. Dudar, when -- when would the Board  
11 expect your -- your next load forecast to be completed?

12 MR. ROBIN WIENS: Typically, there's a  
13 load forecast completed every year in May.

14 MR. BOB PETERS: All right. And now, on  
15 Exhibit 17, you have used the specific load, you -- you  
16 wanted the Board's attention to be brought to the General  
17 Service Large, but the 300 to 100 kV subclass, correct?

18 MR. ROBIN WIENS: Well, specifically,  
19 because some of the industries that would be affected by  
20 this rate fall into that subclass, we believed it was  
21 appropriate to incorporate the forecast domestic loads  
22 for that class into the -- into the comparison that was  
23 earlier provided by MIPUG in their exhibit.

24 MR. BOB PETERS: And in doing so, would  
25 you -- would it be correct that the subclass of General

1 Service Large 300 to 100 kV will in fact have the largest  
2 growth of the three (3) subclasses under General Service  
3 Large?

4

5 (BRIEF PAUSE)

6

7 MR. ROBIN WIENS: I -- I think that may  
8 be possible. I'm -- I'm just trying to source some  
9 numbers here, and I'm not quite able to do it in  
10 realtime.

11 MR. BOB PETERS: All right, well, you can  
12 take that subject to check, if you would, Mr. Wiens.

13 Would it be correct to say, Mr. Wiens,  
14 that the Energy Intensive Industry Rate before this Board  
15 is to target some of that 652 gigawatt hours a year  
16 growth for that General Service 30 to 100 kV subclass?

17 MR. ROBIN WIENS: Yes.

18 MR. BOB PETERS: And while the rate is to  
19 target some of that growth, can you indicate to the Board  
20 how much of that growth will be targeted and exposed to  
21 actually pay the new rate under your present forecasts?

22 MR. ROBIN WIENS: Again, not in realtime,  
23 but -- I would have to go back and look at the  
24 Information Request responses we provided. But we could  
25 find that number, yes.

1                   MR. BOB PETERS:    You're not able to give  
2 a ballpark at this time and check it later?

3                   MR. ROBIN WIENS:    I think we'd prefer to  
4 try to be accurate.

5                   MR. BOB PETERS:    Of course, thank you,  
6 Mr. Wiens.

7                   At Tab 6 of the book of documents, Mr.  
8 Chairman and panel, there is a summary provided in  
9 response to one (1) of the Information Requests  
10 containing the actuals.  And when I look at that, Mr.  
11 Wiens, I'm -- I'm looking at the -- the bottom third of  
12 the page at Tab 6 of the book of documents, the last --  
13 the last document in the tab.

14                   Again, it's the large -- it's the General  
15 Service Large thirty (30) to one hundred (100) that has  
16 had the largest growth over the nine (9) years that are  
17 shown.

18                   Do you agree with that?

19                   MR. ROBIN WIENS:    I haven't done the  
20 math, but I think that's right in percentage terms.  It  
21 doesn't look to appear to be correct in absolute gigawatt  
22 hour terms.

23                   MR. BOB PETERS:    Right, I was looking at  
24 it as approximately a 54 percent growth over those nine  
25 (9) years or 6 percent growth a year.

1 MR. ROBIN WIENS: That looks right.

2 MR. BOB PETERS: And that's compared to  
3 42 percent growth for the large greater than one hundred  
4 (100), which was at about 4 1/2 percent a year annual  
5 growth for those nine (9) years?

6

7 (BRIEF PAUSE)

8

9 MR. ROBIN WIENS: I get 5 and 4 percent,  
10 Mr. Peters, but it's pretty close.

11 MR. BOB PETERS: Mr. Cormie, perhaps over  
12 to you, as I -- as I look at -- just one (1) second,  
13 please.

14

15 (BRIEF PAUSE)

16

17 MR. BOB PETERS: Mr. Cormie, when we  
18 talked about generation capacity constraints, I  
19 understood that to be a discussion different than -- than  
20 let's say energy constraints, where energy constraints  
21 were more because we -- under the line of not having  
22 enough water.

23 And that was your understanding in your  
24 evidence?

25 MR. DAVID CORMIE: Yes. And generation

1 can be constraining in the context of export sales  
2 because Manitoba load may be consuming a greater portion  
3 of the generation resource and -- and, therefore, export  
4 sales have to be reduced.

5 MR. BOB PETERS: And that -- that  
6 statement really underpins one (1) of the reasons why  
7 Manitoba Hydro suggests that the average export price is  
8 a proxy -- the average firm export price is a proxy for  
9 the marginal cost that should be charged under the  
10 energy-intensive rate.

11 MR. DAVID CORMIE: I -- I don't follow  
12 that, Mr. Peters.

13 MR. BOB PETERS: That's fine, I'll move  
14 on. When you say there are generation capacity  
15 constraints, Mr. Cormie, does that mean that Manitoba  
16 Hydro's maximum generation capacity of approximately  
17 5,000 megawatts is constrained because all existing  
18 hydraulic generating stations are -- are being utilized?

19 MR. DAVID CORMIE: That's right. We --  
20 we -- we don't have enough low cost hydro energy  
21 available to fully maximize the export capability of the  
22 transmission lines, because at times of the year like  
23 today, they're -- the Manitoba customer is using that --  
24 needs that energy. And it -- it -- it means that  
25 there's much less energy flowing -- or much less energy

1 flowing on the transmission line than the transmission  
2 line is capable, and so the -- the -- there's a limited  
3 capability for the -- for the -- for the hydro system to  
4 produce megawatts.

5 MR. BOB PETERS: Is the Brandon coal  
6 thermal generating station running flat-out at the time  
7 that you say there are generation constraints?

8 MR. DAVID CORMIE: It may or may not be.  
9 It depends on the market price at the time.

10 If -- if we offer the generation from  
11 Brandon to the MISO market and it's an attractive  
12 purchase for MISO to make, it will be -- it -- it can be  
13 sold to -- and to increase export sales. If the price  
14 that -- Brandon is too high, relative to the alternatives  
15 in MISO, then it won't run for -- for economic reasons.

16 So it -- but generally, the cost to  
17 Brandon is -- is attractive, compared to the -- the  
18 market price. And so generally it would be running --  
19 it's -- it's -- like it's running today, because it's an  
20 economic supply of power.

21 MR. BOB PETERS: But when you tell the  
22 Board that the tie-lines are constrained -- I'm sorry,  
23 when you tell the Board the tie-lines are not  
24 constrained, but the generation is the constraint, when  
25 you give that evidence you're also telling the Board that

1 not only are all of they hydraulic resources being used,  
2 but so is Brandon thermal plant?

3 MR. DAVID CORMIE: It could be.  
4 Generally in the summertime when the Manitoba load is low  
5 enough and -- and the hydraulic generation is running  
6 full out, it's not necessary to run Brandon in order to  
7 fill the transmission line.

8 During the daytime, because the Manitoba  
9 load is up, the transmission line is -- has extra space  
10 available on it -- or has space on it, and the on-peak  
11 price justifies running the thermal plant. So in the  
12 daytime it may be part of the resource mix; in the nigh  
13 time it may be back down.

14 MR. BOB PETERS: When you tell the Board  
15 that the generation capacity constraints exist, as  
16 opposed to transmission capacity constraints, are the  
17 Brandon and Selkirk natural gas generating plants  
18 running?

19 MR. DAVID CORMIE: They -- they are  
20 rarely economic supplies for -- for the MISO market, and  
21 -- and so generally they're not -- they're not running.  
22 And certainly they wouldn't be running at night under  
23 high flow conditions when the tie-line would be loaded  
24 and -- and generate -- or transmission constraints would  
25 be binding.

1                   The market price might be ten (\$10)  
2 dollars a megawatt hour and it might cost one hundred  
3 (\$100) dollars a megawatt to run the -- the combustion  
4 turbines. That was kind of made clear by the evidence  
5 that was provided by TREE in that predispatch chart that  
6 was kind of a checkerboard of black and white squares;  
7 that was the MISO day ahead constraint showing -- and --  
8 and generally what happens in that chart is that the --  
9 although we offer the gas turbines in, they're -- there's  
10 not enough transmission to make them go to market. But  
11 even if we did dispatch, there -- they wouldn't be  
12 dispatched because they were une -- they were uneconomic.

13                   MR. BOB PETERS:    When we talk of  
14 generation capacity constraints, Mr. Cormie, have you  
15 included wind in that capacity constraint?

16                   MR. DAVID CORMIE:    Generally I wouldn't  
17 consider wind to be a capacity resource, because it  
18 cannot be -- it cannot be relied on. It -- it's not part  
19 of Manitoba Hydro's capacity pool. And to the extent  
20 that we -- that wind is offered in, generally we have to  
21 back it up with a shutdown of a hydro unit, so it's not  
22 considered as a capacity resource, and it wouldn't be  
23 part of the generation constrained dispatch.

24                   MR. BOB PETERS:    Would you consider the  
25 Curtailable Rates Program as a capacity constraint

1 dispatch option?

2 MR. DAVID CORMIE: No, because the  
3 curtailable rates is a capacity program, it's not an  
4 energy program, so we do not curtail Manitoba load --  
5 curtailable load in order to make additional energy sales  
6 into the market. It's there to -- for other reasons,  
7 emergencies, protecting and planning reserves, provide  
8 reserves to the system, but it's not there as an energy  
9 resource.

10 MR. BOB PETERS: Is the generation  
11 capacity restraint reflective of scheduled imports adding  
12 to that constraint?

13 MR. DAVID CORMIE: Scheduled imports can  
14 provide a supply of capacity and energy. Under the  
15 situation where the capacity constraints are -- are  
16 mixing with the transmission constraints, imports will  
17 not be -- they won't -- they won't be part of that mix.  
18 Imports are needed when -- when the tie-line is -- is  
19 not loaded. Imports never create an overload -- or a  
20 fully loading of the export transmission line.

21 MR. BOB PETERS: Mr. Cormie, in terms of  
22 Manitoba Hydro's transmission costs for exports, for  
23 their firm -- for your firm exports, that transmission  
24 cost is built into the price, as I understood your  
25 previous evidence.

1                   Is that right?

2                   MR. DAVID CORMIE:    There are -- there are  
3 two (2) types of transmission:  One (1) is network  
4 service, and there's no cost associated with network  
5 service.  And -- and then there are the firm point-to-  
6 point transmission costs that are incurred when Manitoba  
7 Hydro purchases firm transmission.  Those are sunk costs  
8 and those costs aren't associated with individual  
9 transactions.

10                   So I think you're -- I think you're  
11 correct, Mr. Peters, that it's -- to the extent that a --  
12 that a transaction relies on Manitoba Hydro to purchase  
13 transmission service to make an individual transaction,  
14 we build that tran -- that transmission cost into it, to  
15 the extent that it's a sunk -- already a sunk cost, it's  
16 not a part of the calculation.

17                   MR. BOB PETERS:    Part of the cost, but  
18 not part of the calculation that derives the -- the  
19 price?

20                   MR. DAVID CORMIE:    That's right.  We've -  
21 - we've invested in transmission service in all -- in  
22 order to have that right.  Once you've done that, you've  
23 spent that money, and it -- it doesn't enter into the  
24 calculation of whether you want to make an incremental  
25 transaction or not.

1                   MR. BOB PETERS:    And for non-firm  
2 exports, Mr. Cormie, what are Manitoba Hydro's  
3 transmission costs?

4                   MR. DAVID CORMIE:    There are some small  
5 scheduling fees and transmission service charges.  
6 Generally, they would be a few percent of the cost of the  
7 transaction, Mr. Peters, in the order of a few dollars a  
8 megawatt hour. They're -- they're relatively small.

9                   MR. BOB PETERS:    Mr. Cormie, on Manitoba  
10 Hydro Exhibit 15, it was transcript reference 622, you  
11 provided a definition of dependable energy sales  
12 contracts. I have that as Exhibit 15.

13                   MR. DAVID CORMIE:    I have that, yes.

14                   MR. BOB PETERS:    And one (1) of the --  
15 one (1) of the points that I would like you to clarify  
16 for the benefit of the Board is that when Manitoba Hydro  
17 is calculating its revenues from its dependable energy  
18 sales, it includes all amounts that are billed for demand  
19 charges for the accredited capacity, correct?

20                   MR. DAVID CORMIE:    That's correct.

21                   MR. BOB PETERS:    It also adds in the  
22 amounts billed for the energy that's sold.

23                   MR. DAVID CORMIE:    That's correct.

24                   MR. BOB PETERS:    And you've now also told  
25 us in your evidence that there's -- there may be other

1 revenues received for other services or products that are  
2 supplied or available to the counterparty by way of the  
3 contract. And that's also included.

4 MR. DAVID CORMIE: That's correct.

5 MR. BOB PETERS: I note in the answer to  
6 -- in Manitoba Hydro Exhibit 15 that the energy volumes  
7 that you have, include all energy sold under contract,  
8 whether physically delivered or financially settled,  
9 correct?

10 MR. DAVID CORMIE: That's correct.

11 MR. BOB PETERS: Now, let me understand  
12 that. In the rate that you're building up for the energy  
13 intensive rate to Manitoba customers, for which you're  
14 asking this Board's approval, you include volumes of  
15 energy that have been sold pursuant to long-term  
16 contracts as dependable exports, but some of those sales  
17 may not physically be delivered by Manitoba Hydro?

18 Would that be correct?

19 MR. DAVID CORMIE: That's correct, Mr.  
20 Peters. There's -- there's two (2) sides to the  
21 calculation: one (1) is the revenue side and one (1) is  
22 the cost side.

23 The revenue side comes from the sale of  
24 the power to the customer. And the customer pays  
25 Manitoba Hydro that, regardless of whether Manitoba Hydro

1 actually physically generates that power or buys the  
2 power in the marketplace in order to serve the sale. And  
3 -- and the source of the energy is -- is the cost side.

4 And, for example, if we were to run our  
5 gas turbines in order to serve the sale, we might incur a  
6 cost of one hundred dollars (\$100) a megawatt hour. If  
7 we bought the energy in the market it might be fifty  
8 (50).

9 Regardless of whether we spend fifty  
10 dollars (\$50) or one hundred dollars (\$100) producing the  
11 power, the customer will pay us the rate under the  
12 contract. And -- and when we -- when we've calculated  
13 the revenues from the sale, we include all the revenues  
14 from the sale, regardless of where we source the energy  
15 from when we actually make delivery.

16 MR. BOB PETERS: All right. I understand  
17 your evidence, Mr. Cormie, that if Manitoba Hydro  
18 physically generates the electrons, you know the cost of  
19 generating it and you also know the revenues that are  
20 gonna be paid by your counterparty, correct?

21 MR. DAVID CORMIE: Correct.

22 MR. BOB PETERS: And you're only going to  
23 enter into those contracts if there's a profit in it for  
24 Manitoba Hydro?

25 MR. DAVID CORMIE: Yes, we enter into

1 these transactions on the expectation that they will be  
2 profitable for the Corporation.

3 MR. BOB PETERS: But I now hear you also  
4 telling the Board that if your counterparty is supposed  
5 to pay you, let me just pick a number, six (6) cents a  
6 kilowatt hour, and you know that your generation costs  
7 and transmission costs may be a total of four (4) cents,  
8 leaving you with a surplus of two (2) cents or a profit  
9 of two (2) cents, you can now weigh that against a  
10 financial settlement of that deliver.

11 Is that correct?

12 MR. DAVID CORMIE: I'm not clear, Mr.  
13 Peters, by weigh it against. The -- the important thing  
14 is that when we look at the cost of serving the sale  
15 under all flow conditions, we -- we calculate them -- the  
16 -- you know, the marginal cost of serving the sale. And  
17 we have -- we know what the revenues are and we subtract  
18 off the marginal costs, and -- and sometimes that  
19 marginal cost may be very high if the -- for example,  
20 under dependable flow conditions, we'll have to enter  
21 into some expensive purchases in order to -- to serve the  
22 sale.

23 But when you look at the costs under all  
24 flow conditions from the lowest to the highest, we -- our  
25 practice is to calculate the outcome under all those

1 conditions and -- and say that's the average cost of  
2 serving the sale. And when we compare the average cost  
3 to the revenue that we receive on the sale, that  
4 determines Manitoba Hydro's expected profit on the  
5 transaction.

6 MR. BOB PETERS: All right. When you  
7 financially settle (1) one of those transactions, you  
8 don't physically deliver the electrons, correct?

9 MR. DAVID CORMIE: That's correct.

10 MR. BOB PETERS: And when you financially  
11 settle those, will you financially settle those so that  
12 Manitoba Hydro's profits are actually less than what they  
13 would be if Manitoba Hydro physically generated the  
14 electrons?

15 MR. DAVID CORMIE: Well, it depends on --  
16 it depends on our alternate cost at the time. Generally,  
17 if we can supply the power cheaper than buying it in the  
18 market, we wouldn't -- we would -- we would generate the  
19 power in -- and serve the sale off our own resources. If  
20 we -- if we can buy the power cheaper than generating  
21 ourselves, we will -- we will buy the power to serve the  
22 sale.

23 We're always trying to do what is economic  
24 at that moment in time.

25 MR. BOB PETERS: And -- and I understand

1 that and I appreciate your answer, but will there be  
2 circumstances where you financially settle a transaction  
3 so that there would be less profit for Manitoba Hydro  
4 than there would be if Manitoba Hydro had delivered its  
5 own generated electrons?

6 MR. DAVID CORMIE: I can't think of a  
7 circumstance when we would choose to do something that  
8 was uneconomic.

9 MR. BOB PETERS: And when it comes time  
10 to calculating the export revenue received from those  
11 sales, do the financial settlements impact on that  
12 revenue calculation?

13 MR. DAVID CORMIE: They don't calculate  
14 on the net -- on the revenue calculation, they -- they  
15 would calculate -- they would influence the calculation  
16 of net revenue, which is the revenue minus the cost. A  
17 nd generally, we only make sales that --  
18 that we are capable of delivering on. And from Mr.  
19 Surminski's perspective, he might, from a planning  
20 perspective, say that the gas turbines are there and  
21 we'll run them. But when -- when our power traders are  
22 actually, at the moment of delivery, although they have  
23 the gas turbines there, if there's an opportunity to  
24 acquire the power at a lower cost, we will do that rather  
25 than -- than running the -- the gas turbines.

1                   And so we're always trying to find less  
2 expensive ways of serving the sale and improving the  
3 margin that Manitoba Hydro would receive for the sale of  
4 that power under the dependable contract.

5

6                   (BRIEF PAUSE)

7

8                   MR. BOB PETERS:    Let me see if I have  
9 that summarized properly this way, Mr. Cormie.  If you  
10 financially settle, as opposed to physically deliver,  
11 does that change the price that Manitoba Hydro will get  
12 from the contract in any way?

13                   MR. DAVID CORMIE:    No, it doesn't.

14                   MR. BOB PETERS:    Mr. Cormie, in -- in  
15 Document 8-4 of the book of documents, and in light of  
16 the financial trading answers you've given me, I need to  
17 be clear, and I -- I, quite frankly, am not clear on  
18 whether there are any merchant transactions included on  
19 either the top half or the bottom half of that chart.

20                   MR. DAVID CORMIE:    There are no merchant  
21 transactions in these numbers, Mr. Peters.

22                   MR. BOB PETERS:    And Mr. Cormie, I handed  
23 out some extracts from the record, including PUB/Manitoba  
24 Hydro-16A, and questions I was going to ask of you.  And  
25 that was a schedule of the '07 fiscal year and the '08

1 fiscal year on-peak and off-peak energy sales.

2 Do you remember that?

3 MR. DAVID CORMIE: Yes, I have that.

4 MR. BOB PETERS: Are there merchant  
5 transactions included in any of the numbers in  
6 PUB/Manitoba Hydro-16A?

7 MR. DAVID CORMIE: There are none.

8 MR. BOB PETERS: And while we're talking  
9 about those merchant transactions, Mr. Cormie, would I be  
10 correct that in those transactions, the profit to  
11 Manitoba Hydro may be less than two (2) cents a kilowatt  
12 hour, but in every instance there's a profit to Manitoba  
13 Hydro?

14 MR. DAVID CORMIE: There are thousands of  
15 transactions in merchant transactions. In every case,  
16 they are -- there may be -- there may be profits greater  
17 than two (2) cents, there may be profits less than two  
18 (2) cents. Not all the transactions are profitable.

19 If my -- my memory serves me right for the  
20 year ending 2000 -- March 2008, approximately 90 to 95  
21 percent of the transactions were profitable, Mr. Peters.

22 MR. BOB PETERS: At the time the  
23 transaction is entered into, is there an expectation of  
24 profit, or is there an understanding it will be  
25 unprofitable when made?

1                   MR. DAVID CORMIE:    There's always --  
2   there needs to be an expectation of a profit.

3                   MR. BOB PETERS:    So you don't have your  
4   transmission, or your -- your acquisition price, or your  
5   selling price locked in at the time you make those?

6                   MR. DAVID CORMIE:    We -- we may have  
7   purchased transa -- transmission service in advance of --  
8   of the opportunity, Mr. Peters, so we're held with the  
9   sunk cost of the transmission purchase.  And so there are  
10  days when Manitoba Hydro records a loss on those  
11  transactions because it's chosen not to trade, but we  
12  show that we -- we went and purchased some transmission  
13  service.  And so there can be those -- those days where  
14  we -- where we show that the trading activity has lost  
15  money.

16                   But the vast majority of the transactions  
17  -- the trading transactions are entered into only when  
18  they're -- we can lock in a positive spread.  And the  
19  losses I'm talking about are our losses associated with  
20  the buying the transmission service.

21                   MR. BOB PETERS:    What was the fiscal 2008  
22  profit received from the trading transactions by Manitoba  
23  Hydro?

24                   MR. DAVID CORMIE:    For year end 2008,  
25  revenues were 71.5 million and the expenses associated

1 with those were 60.4 million. And so the trading profit  
2 was approximately \$11 1/2 million from which there were  
3 some transmission service charges that need to be paid,  
4 reducing that by approximately \$4 million.

5 So the profit on the merchant transactions  
6 in that year were approximately \$7 million.

7 MR. BOB PETERS: I'd understood the  
8 revenue -- I'm sorry, no, the cost of transmission was  
9 over and above that and, therefore, was deducted from the  
10 profits? I thought that was built into the equation, Mr.  
11 Cormie.

12 MR. DAVID CORMIE: Well, as I mentioned  
13 earlier, we may purchase transmission service for a month  
14 or for a year in advance. And once that transmission is  
15 purchased, we use it on a daily basis, but there may be  
16 some days where the transmission service has been bought  
17 and paid for but no -- no energy flows, and so we have  
18 expenses on that -- on that day that need to be paid.

19 For transactions that are made on a daily  
20 basis where we buy transmission service, those costs are  
21 built into the -- into the cost of -- of that specific  
22 transaction. There's no pre-commitment by Manitoba Hydro  
23 and so, you know, when we look at whether we would enter  
24 into an incremental transaction, we would consider the  
25 spreads that we can expect between the markets plus the

1 incremental cost of buying transmission service.

2 MR. BOB PETERS: All right, thank you. I  
3 have your clarification. I want to turn, if I could, to  
4 your Exhibit 12, Mr. Cormie. And I say "your", meaning  
5 Manitoba Hydro's Exhibit 12.

6 This was one of those curves that was  
7 drawn and this one was picked for the month of July of  
8 '07 on-peak summer month high water flows.

9 Do you recall that?

10 MR. DAVID CORMIE: Yes, I have that.

11 MR. BOB PETERS: And in response to a  
12 question by Mr. Landry, you provided a number of  
13 scenarios and this is one of them, correct?

14 MR. DAVID CORMIE: That's correct.

15 MR. BOB PETERS: Can you confirm that  
16 this curve for July of '07 shows what are net exports, as  
17 opposed to gross exports?

18 MR. DAVID CORMIE: I -- I can confirm  
19 that with the qualification that this is net interchange.  
20 This is the -- this is the actual power that's flowing on  
21 the transmission line -- the transmission lines. These  
22 are by all customers of -- of Manitoba Hydro who take  
23 transmission service. These are not just Manitoba Hydro  
24 trans -- transmissions -- transactions, although I can  
25 say for sure that all the transactions below the firm

1 limit are Manitoba Hydro transactions because Manitoba  
2 Hydro owns all the firm transmission service.

3 MR. BOB PETERS: Maybe you're ahead of  
4 me, but what you are telling the Board is that in  
5 addition to Manitoba Hydro's sales, there's -- there's  
6 something else going on on this graph? Somebody else's  
7 sales?

8 MR. DAVID CORMIE: Yes. For example, if  
9 Manitoba Hydro were to sell 2,000 megawatts on the line,  
10 but at the same time SaskPower would -- was buying a  
11 hundred, then flow in the line would only be nineteen  
12 hundred (1,900), because there's two thousand (2,000)  
13 going south and a hundred coming north, so the net flow  
14 on the line -- the net interchange is -- would be  
15 nineteen hundred (1,900).

16 Pardon me? No, Saskatchewan can buy  
17 transmission service out of MISO through Manitoba into  
18 Saskatchewan.

19 MR. BOB PETERS: Does this also net-off  
20 imports?

21 MR. DAVID CORMIE: Yes, and that -- that  
22 was the -- that was the example I just gave you. If  
23 Saskatchewan were choosing to buy power out of MISO at  
24 the time that Manitoba Hydro was exporting, then any  
25 imports that were occurring would -- would reduce the

1 export flow. And so to the extent that imports were  
2 scheduled, the net flow would be reduced.

3 MR. BOB PETERS: I'm not sure if it's a  
4 different category, Mr. Cormie, but it would also --  
5 those net exports, would -- would that exclude -- or I'm  
6 sorry, would that be reflective of having netted-off  
7 external trading or resales?

8 MR. DAVID CORMIE: No, the merchant  
9 transactions do not -- do not flow through Manitoba or  
10 originate in Manitoba. These are transactions that are  
11 external to Manitoba. And so merchant transactions do  
12 not reflect on the flow on Manitoba Hydro's transmission  
13 lines.

14 MR. BOB PETERS: Can you confirm on that  
15 exhibit, Mr. Cormie, that the zero decimal five zero  
16 (0.50) probability of accedence reflects the average net  
17 interchange of about 1,800 megawatt hours -- or  
18 megawatts, sorry?

19 MR. DAVID CORMIE: Yeah, that -- that's  
20 the median -- that's the median flow. Fifty percent of  
21 the time the flow is higher than eighteen hundred (1,800)  
22 and 50 percent of the time it was less than eighteen  
23 hundred (1,800).

24 MR. BOB PETERS: And if I calculate that  
25 to -- to get on-peak, that would be equivalent to

1 approximately 625 gigawatt hours?

2 MR. DAVID CORMIE: That sounds fair.

3 MR. BOB PETERS: But when I compare that  
4 625 gigawatt hours to that PUB/Manitoba Hydro-16A  
5 Information Request that we talked about a few minutes  
6 ago, their July of '07 on-peak seems to indicate 785  
7 gigawatt hours.

8 Am I correct in that?

9 MR. DAVID CORMIE: That's what 16A shows.  
10 And the -- the explanation there, Mr. Peters, is one (1)  
11 is sales and one (1) is deliveries. Sales are the  
12 megawatt hours that Manitoba Hydra has sold and received  
13 revenue for. And not all sales go to delivery and -- and  
14 so they're -- they're -- you're comparing apples and  
15 oranges.

16 MR. BOB PETERS: Well, at least they're  
17 all fruit. But what you're telling me is that the ones  
18 that don't go to delivery, go to financial settlement, is  
19 that what I read between the lines of your answer?

20 MR. DAVID CORMIE: Yes. And -- and a  
21 good example to -- to put clarity on this, is that there  
22 are -- in -- in MISO there's a day-ahead market and there  
23 is a realtime market.

24 In the day-ahead market is energy  
25 transactions that are expected to take place in realtime.

1 And Manitoba Hydro gets paid for those day-ahead  
2 transactions, prior to making -- making delivery.

3 But in realtime we may change our mind,  
4 and we may decide not to export the amount that we were  
5 paid for in the day-ahead market. We may decide to  
6 export less, and then divert the difference to a  
7 different market. For example, it might be Ontario.

8 And so, you can imagine a situation where  
9 we said on a day-ahead basis we were going to sell 2,000  
10 megawatts to MISO. In realtime, we decide we're only  
11 going to sell 1,900. But we show 2,000 megawatts of  
12 sales in the day-ahead market. But in realtime, now,  
13 we've bought back, or in effect, under-delivered, and  
14 we've sold another hundred again to Ontario.

15 So now you have double counting. We've --  
16 we've sold the megawatt hour twice.

17 And so that's why the sales numbers are  
18 bigger than the deliveries, because under this market  
19 construct, you get to sell the power twice if you choose  
20 to. And -- but -- but that means that you have to -- you  
21 have a purchase cost because you have to -- you have to  
22 serve your day-ahead obligation with the purchase.

23 And this goes back to the -- the -- you  
24 have to look at the net value to Manitoba Hydro for doing  
25 that. And if -- if the realtime price in -- in Ontario

1 is better than the MISO price, it may make economic sense  
2 to -- to purchase to serve the sale that you made in the  
3 day-ahead market, and -- and capture the additional  
4 margin that's available between the Ontario and the MISO  
5 market.

6 MR. BOB PETERS: So on those days when  
7 you sell the same energy twice, in one (1) of those  
8 transactions you will have to financially buy it back?

9 MR. DAVID CORMIE: That's correct, so  
10 there's a cost associated with -- with the under-  
11 delivery.

12 MR. BOB PETERS: And then, from that  
13 answer, do I take it that you can schedule more than tie-  
14 line capacity?

15 MR. DAVID CORMIE: In the day-ahead  
16 market you can schedule more than the tie-line capacity,  
17 because MISO will only accept say -- they will only  
18 accept sales up to the capability of the transmission  
19 line, because you -- there's no -- MISO doesn't know  
20 whether you were -- you're going to enter into a arbit --  
21 arbitrage transaction in -- in real time.

22 MR. BOB PETERS: So the answer is no, you  
23 cannot schedule more than the tie-line capacity?

24 MR. DAVID CORMIE: I agree.

25 MR. BOB PETERS: Okay, I'm sorry. I may

1 have misunderstood the start of your answer.

2

3

(BRIEF PAUSE)

4

5 MR. BOB PETERS: Perhaps let me close on  
6 that PUB-16 and also on Undertaking Number 7, which is  
7 Manitoba Hydro Exhibit 12, when I look to the month of  
8 August, 2007, that's the month that I think that Mr.  
9 Ostergaard would say that somebody at Manitoba Hydro was  
10 the highest paid trader.

11 There it shows 981 gigawatt hours on-peak,  
12 sold, correct?

13 MR. DAVID CORMIE: That's correct.

14 MR. BOB PETERS: And you don't have the  
15 physical capability to deliver that in that month, that's  
16 also correct?

17 MR. DAVID CORMIE: That's correct.

18 MR. BOB PETERS: So what --

19 MR. DAVID CORMIE: That works out to an  
20 average export in the on-peak hours of 2,667 megawatts,  
21 which is much higher than the physical transfer  
22 capability to all our markets.

23 MR. BOB PETERS: So that tells the Board  
24 that you sold the same energy twice on that day, and that  
25 somewhere there's a financial transaction that would --

1 would bring that back to tie-line capacity?

2 MR. DAVID CORMIE: That's correct.

3 MR. BOB PETERS: And there's no record --  
4 no place in the record where the tie-line capacity --  
5 sorry, where those financial buyback situations is  
6 reflected in terms of the amount of energy that was --  
7 was paid for financially as opposed to delivered?

8 MR. DAVID CORMIE: I -- I've done the  
9 calculation, Mr. Peters, and for these two (2) years,  
10 approximately 5 1/2 percent of the transactions are  
11 financial transactions. The other 94 1/2 percent go to  
12 physical delivery.

13

14 (BRIEF PAUSE)

15

16 MR. DAVID CORMIE: That -- that's in  
17 terms of the megawatt hour.

18

19 (BRIEF PAUSE)

20

21 MR. BOB PETERS: In light of that answer,  
22 Mr. Cormie, when I look at the average prices that you  
23 received -- and let's pick August of '07 -- have you  
24 subtracted out of that then, all of the transmission  
25 costs and those costs associated with the financial

1 transaction?

2 MR. DAVID CORMIE: No, Mr. Peters, those  
3 are just the revenues that Manitoba Hydro received. The  
4 costs associated with the purchases aren't part of the  
5 revenue calculation.

6 MR. BOB PETERS: So -- so some of those  
7 financially settled transactions, the revenue from that  
8 is included in the average price, even though it wasn't  
9 physically delivered?

10 MR. DAVID CORMIE: The -- yeah, the  
11 revenue is the revenue that we received from our  
12 customer. The financial settlement is a cost and it will  
13 show up in fuel and power purchased in another line of  
14 the operating statement.

15 MR. BOB PETERS: So it wouldn't be  
16 correct for me to call those net sales?

17 MR. DAVID CORMIE: That's correct.

18 MR. BOB PETERS: All right. Mr.  
19 Chairman, I'm a little longer than I thought I'd be, but  
20 I do want to thank the panel for indulging me in those  
21 questions. Those are all that I have at this time.

22 THE CHAIRPERSON: Thank you. Remind me,  
23 if you don't mind, Mr. Peters --

24 MR. BOB PETERS: Yes, sorry, Mr.  
25 Chairman. I think it would be appropriate to canvass my

1 colleagues opposite, to see if they likewise have some  
2 questions of the Hydro panel, based on any undertakings  
3 or exhibits that have been filed. And following that, we  
4 would maybe take a short recess and then we'll  
5 reconstitute the MIPUG witness for the conclusion of  
6 their direct evidence.

7 THE CHAIRPERSON: Thank you. Mr.  
8 Williams...?

9 MR. BYRON WILLIAMS: No, Mr. Chairman.  
10 I'm just going to sit in awe of the fine job that Mr.  
11 Peters just did.

12 THE CHAIRPERSON: Mr. Landry...?

13 MR. JOHN LANDRY: Mr. Chair, again, I --  
14 I don't want to be a dampener on the process but the  
15 amount of information that's coming at us since -- well,  
16 I'll go from the rebuttal but mainly since the beginning  
17 of the hearing, because that's -- that's this stuff that  
18 I'm trying to figure out -- is simply at too fast a pace.

19 I'm simply not in a position, Mr. Chair,  
20 to meaningful -- meaningfully look at this information --  
21 this new information, to even be helpful to my clients to  
22 help explain to them to get meaningful instructions to  
23 come back to try to ask questions that might be helpful  
24 to you.

25 And, sir, I say that with all due respect

1 to my friends at Manitoba Hydro, but the difficulty is  
2 this is the exact type of information that should have  
3 been filed with the application. These are the type --  
4 this is the type of information that you were seeking --  
5 when I say you, sir, I meant -- I mean the Board -- was  
6 seeking in their -- in their material.

7                   If that was properly provided, we would  
8 have gone through the normal discovery process, which is  
9 -- which is very important to your process. It's  
10 important to all regulatory processes that I'm aware of.  
11 We weren't able to do that.

12                   We, over the last number of days, have  
13 been trying to track -- you know every day, there's more  
14 undertakings that are filed with information that I will  
15 say to you, sir, should have been filed with the  
16 application. I will -- and I'll make that argument.

17                   And -- I can't keep up. I just can't keep  
18 up and -- and the problem with that is that there's all  
19 this information on the record. I understood -- and  
20 that's no reflection on Mr. Peters -- I probably  
21 understand about 50 percent of what was going on there  
22 and that's not a good thing.

23                   But having said all that, sir, I'm -- I  
24 understand where we're at, how we got here. It's just a  
25 bit frustrating for myself and my clients to have to deal

1 with this type of thing.

2 I still -- I'm no further ahead on how we  
3 determine the average price, based on some of these  
4 graphs and everything, but I'm not in a position at this  
5 point in time, to -- to ask any questions, at least in  
6 relation to the undertakings.

7 I do have one (1) question that arises out  
8 of Mr. Peters, just because it -- it did -- it was one  
9 (1) thing I thought I understand and now I don't. I  
10 wonder if I could ask that one (1) question and we -- and  
11 that'll -- that'll have to suffice unfortunately in the  
12 circumstances, Mr. Chair, from our perspective.

13 THE CHAIRPERSON: Yes, please ask the  
14 question.

15

16 RE-CROSS-EXAMINATION BY MR. JOHN LANDRY:

17 MR. JOHN LANDRY: Mr. Cormie, again, just  
18 trying to understand, we had dependable energy sales in  
19 Tab 8 of Mr. Peters' book of documents, 8-4, which is a -  
20 - which was a table I know that you had prepared, and I  
21 thought I had some -- some understanding there. We're  
22 now talking about financially settled transactions;  
23 that's some of the debate you had with Mr. Peters.

24 First of all, is it -- is it my understand  
25 that that is the first time on the record that we've seen

1 this concept of financially settled transactions, in this  
2 proceeding at least?

3 MR. DAVID CORMIE: At this hearing?

4 MR. JOHN LANDRY: Yes.

5 MR. DAVID CORMIE: I believe so, yes.

6 MR. JOHN LANDRY: And if I understood the  
7 cross-examination that -- that went on or the questioning  
8 that went on from Mr. Peters, when Manitoba Hydro  
9 calculates the average firm sale price, the proxy that  
10 we've all be talking about, within that there may be a  
11 number of transactions that, in fact, were financially  
12 settled as opposed to physically settled.

13 Is that a -- is that a...?

14 MR. DAVID CORMIE: That's correct, but it  
15 -- at the end of the day, the -- that table is a table of  
16 revenues. It's not a table of net revenues and it's not  
17 a table of cost; it's the revenues that we receive for  
18 this -- for the sale.

19 And that revenue would happen whether we  
20 financially settled the transaction or not.

21 MR. JOHN LANDRY: I -- I think I  
22 understand that, sir. But you're telling me that the  
23 price that Manitoba Hydro is suggesting that these three  
24 (3) or four (4) customer pay, includes some financially  
25 settled transaction where there is nothing, no analysis,

1 no detail on the record in relation to those  
2 transactions.

3 Is that right?

4 MR. DAVID CORMIE: Well, I'm -- I'm  
5 suggesting that whether the transaction is financially  
6 settled or not is not material to the revenue calculation  
7 from those sales contracts.

8 For example, Manitoba Hydro may choose to  
9 run its combustion turbine. We will buy the gas from a  
10 gas company. There's a cost associated with serving that  
11 sale, and that cost goes to a gas broker in Alberta.  
12 That cost is no different than if Manitoba Hydro goes to  
13 the market and buys power to serve the sale.

14 The revenue is -- is fixed under the  
15 contract; there's a cost associated with it. The least  
16 expensive way of serving the sale is to buy the -- the  
17 power directly, rather than to generate it.

18 The costs and the revenues are separate.  
19 We've never put costs associated with these transactions  
20 on the table. The rate is based upon the -- the pool of  
21 dependable contracts of -- the revenues from those  
22 contracts. It's not a marginal cost rate; it's the rate  
23 from the contracts, not -- it's not a marginal cost rate.

24 MR. JOHN LANDRY: Sir, I know you're  
25 trying to be helpful to this Board. My question, I

1 thought, was pretty specific. I'll make it a little bit  
2 more specific.

3                   There's nothing on the record that these  
4 two (2) or three (3), four (4) clients -- or customers  
5 that are going to be impacted at this rate, can look at  
6 these financially settled transactions and look at the  
7 type of detail that you're talking about now.

8                   Is that -- is that a fair statement?

9                   MR. DAVID CORMIE:    That's correct.

10                  MR. JOHN LANDRY:    And, sir, as I  
11 understood what you said, 5 1/2 percent of the  
12 transactions that are taken into account are financially  
13 settled transactions; that was my note.

14                  Did I have that right?

15                  MR. DAVID CORMIE:    Five and a half  
16 percent of the transactions shown on PUB-16, which is  
17 this -- which was all opportunity in firm sales, most of  
18 the financial transactions would be associated with  
19 opportunity sales. I didn't do the calculation to find  
20 out what that breakdown -- and I'm not sure I have that -  
21 - that detail.

22                  But for all -- all sales out of Manitoba  
23 hy -- out of Manitoba Hydro, opportunity and dependable  
24 sales, it was 5 1/2 percent. I would -- my -- my  
25 judgment is that the vast majority of the dependable

1 sales would be physically delivered; they wouldn't be  
2 curtailed. It would be the curtailment of the  
3 opportunity sales that would then be financially settled.

4 MR. JOHN LANDRY: But there's nothing on  
5 the record that a customer of Manitoba Hydro can test  
6 your judgment.

7 A fair statement?

8 MR. DAVID CORMIE: That's correct.

9 MR. JOHN LANDRY: Okay. Now, the other -  
10 - the other point, sir, is that as I understood the issue  
11 -- and -- and I may be wrong, and plea -- please correct  
12 me if I am wrong -- that there were potentially some  
13 incremental transmission costs that might be incurred as  
14 a result of a financially settled transaction.

15 Is that a fair statement?

16 MR. DAVID CORMIE: Incremental  
17 transmission service costs are associated with the  
18 physical delivery of power and they wouldn't be  
19 associated with the -- the financial settlement, no.

20 MR. JOHN LANDRY: Well, sir, I'm -- then  
21 I'm really confused, because as I understood -- and I  
22 have the numbers here -- you said that there was an \$11.5  
23 million merchant trading profit, that's my word, if it's  
24 not completely correct. And then you said there was a \$4  
25 million amount that had to be taken off for -- I thought

1 I heard, and I -- it could be wrong, sir -- incremental  
2 transmission services.

3 Was I not right in that?

4 MR. DAVID CORMIE: You -- you heard  
5 correctly, but that -- those transmission costs are  
6 associated with the -- the merchant transactions that  
7 aren't transactions that flow in and out of Manitoba. So  
8 those are transactions that occur off the system and they  
9 don't -- they're not part of this -- these opportunity  
10 sales or these dependable sales.

11 MR. JOHN LANDRY: So when you financially  
12 settle a transaction, that's a -- let's use dependable  
13 sales -- when you financially settle a transaction, you  
14 will never have a transmission -- an incremental  
15 transmission cost in another jurisdiction?

16 MR. DAVID CORMIE: No, because you were -  
17 - well, all we have to do is buy the energy. We don't  
18 have to provide this transmission service for it.

19 MR. JOHN LANDRY: Mr. Chair, those are  
20 all the questions I have.

21 THE CHAIRPERSON: Thank you, Mr. Landry.  
22 Mr. Gange...?

23 MR. BILL GANGE: I have no questions.

24 THE CHAIRPERSON: I think we are going to  
25 take a break now. It'll give us all a chance to ponder

1 what we have heard in the last half hour or so.

2

3 --- Upon recessing at 2:20 p.m.

4 --- Upon resuming at 2:40 p.m.

5

6 THE CHAIRPERSON: Ms. Ramage, I believe  
7 you got some more information for us.

8 MS. PATTIE RAMAGE: Yes, Mr. Chairman.  
9 During Mr. Peters' cross-examination this afternoon, on  
10 undertakings, he asked Mr. Wiens, and I -- I'm not sure  
11 if I'm phrasing this correctly, but from my notes: How  
12 much of the growth in the 30 to 100 kV category would  
13 fall into the second block?

14 Mr. Wiens undertook to provide him with  
15 this -- that information, and I believe he now has that.

16 THE CHAIRPERSON: Mr. Wiens...?

17 MR. ROBIN WIENS: Yes, and I'm -- I'm  
18 taking -- taking the question as meaning in the years  
19 that were included in -- the forecast years that were  
20 included in Manitoba Hydro Exhibit 17.

21 And so for 2010/'11, the portion of the  
22 forecast large 30 to 100 kV load that would be above the  
23 baseline would be 259 gigawatt hours, and the same figure  
24 for 2013/'14 would be 280 gigawatt hours.

25

1 (MANITOBA HYDRO PANEL STANDS DOWN)

2

3 THE CHAIRPERSON: Thank you, Mr. Wiens.

4 We are going to move on now to the cross-  
5 examination of the MIPUG panel, but first, Mr. Landry,  
6 Mr. Williams, and Mr. Gange.

7 Mr. Landry, the Board hears you, and if  
8 you have any more questions of Manitoba Hydro's panel  
9 before we close tomorrow, we would appreciate it if you  
10 would advise the Board counsel. We will take it under  
11 advisement.

12 Alternatively, between now and closing  
13 submissions you come to that conclusion and want to ask  
14 more questions, again please consult with Mr. Peters.  
15 Let us know through Mr. Peters.

16 And, of course, you have closing argument  
17 to make any submissions that you may want to make on  
18 either the process or the merits of the case.

19 MR. JOHN LANDRY: Thank you Mr. -- Mr.  
20 Chair. I appreciate that.

21 THE CHAIRPERSON: Thank you, Mr. Landry.  
22 Okay, we will begin now with the cross-examination of the  
23 MIPUG panel, and --

24 MR. JOHN LANDRY: Sorry, we're -- we're  
25 still in direct, Mr. Chair. Just a little bit more of

1 direct.

2 THE CHAIRPERSON: Okay. I must be fading  
3 faster than others. Please?

4

5 MIPUG PANEL:

6 ANDREW MCLAREN, Resumed

7 PATRICK BOWMAN, Resumed

8 PETER OSTERGAARD, Resumed

9

10 CONTINUED EXAMINATION-IN-CHIEF BY MR. JOHN LANDRY:

11 MR. JOHN LANDRY: Mr. Bowman, do you want  
12 to finish the -- I guess it was the last section of -- of  
13 the overview that you've presented at the beginning of  
14 your direct?

15 MR. PATRICK BOWMAN: Yes, thank you.  
16 good afternoon, Mr. Chair, and members of the panel. The  
17 last item that we did not get to finish this morning, in  
18 respect of the direct, relates to Appendix B of the  
19 InterGroup evidence. The -- the pages are numbered  
20 starting B-1 and -- and sequentially thereafter to deal  
21 with Appendix B.

22 This is the section of our submission. If  
23 you'll recall, at the start I said we -- we spent time  
24 looking at Hydro's basic facts that were being asserted  
25 in support of the rate, as well as Hydro's proposal.

1 We've now spent some time dealing with -- with our  
2 comments on Hydro's proposal. This was where we -- we  
3 put the discussion in the appendix about some of the  
4 items that were being asserted and -- and the extent to  
5 which we found that they either borrowed or didn't bear  
6 out on a look at the evidence that was -- that was filed.

7           There are five (5) appendices; four (4) of  
8 them received comment in Hydro's rebuttal. It forms the  
9 -- the bulk of their rebuttal. So I'll deal with their  
10 rebuttal topics as we go along, and that way we'll sort  
11 of deal with it all in one (1) and, hopefully, keep  
12 fading to a minimum.

13           Appendix B, the first topic that's there,  
14 timely, was an attempt to take a bit of time with the  
15 question of what is an appropriate proxy, and to what  
16 extent does a linkage to firm exports represent the  
17 revenues or the -- the cost impacts on Hydro -- the  
18 opportunity cost impacts on Hydro, from a change in  
19 industrial load.

20           This is the topic area where we get into  
21 the entire question about tie-lines, and generation  
22 constraints, and the like. And we -- we dealt with it in  
23 an appendix in part because, from our perspective, not  
24 much turns on it. In -- in a sense, without being  
25 pejorative, a lot of the discussion that's happened to

1 date is a -- a bit of a tempest and a teapot.

2           The issue of transmission constraints and  
3 whether they exist or not, at a high level, I'll say,  
4 doesn't change materially any conclusion we would have in  
5 respect of whether their -- they -- their proposal is  
6 acceptable or not. That's a general comment.

7           At a more specific level, when you get to  
8 the -- the technical point, determining whether there's a  
9 transmission constraint and whether it's -- exists in  
10 most hours of the day and whether it's -- only exists  
11 when you consider gross exports versus net and a number  
12 of other considerations -- as opposed to a generation  
13 constraint -- is -- is an interesting academic exercise.

14           If in deed transmission is not the  
15 constraint, the new world we're into is generation is a  
16 constraint. It's certainly a surprising change for a lot  
17 of us who have sat here through seven (7) years of -- of  
18 hearings about transmission constraints.

19           But it still gets you to the point that in  
20 any given hour of the day, Hydro's ability to export is  
21 limited by a constraint, and it doesn't have unlimited  
22 ability to move power to the times that it wants to move  
23 them. They result in somewhat different conclusions, but  
24 it does not mean their system is unconstrained.

25           The basic point would be, first, I think

1 it's important that -- that people understand that there  
2 is an entirely different set of considerations that go  
3 into Hydro's decision about how much firm power it can  
4 commit to; then the decisions that go into how much  
5 opportunity power it can export from time to time.

6                   They're entirely different ways of  
7 thinking, and they come out of entirely different  
8 systems. And there's some level of mixing in that. And  
9 I -- I hope in going through this, we can ensure that we  
10 have a little bit of clarity on that.

11                   But, in essence, the firm power  
12 commitments are the commitments that come out of looking  
13 at the type of tables that were handed out earlier today  
14 that come from the Power Resource Plan. They look at  
15 what Hydro can supply in a drought year, and they  
16 consider how much power can it rely on from different  
17 sources, and, as a result, how much surplus might it have  
18 that it can reliably provide in all years of the  
19 forecast. It doesn't get into a question of transmission  
20 constraints.

21                   So, in a sense, as long as we are in the  
22 world of firm power exports and thinking about what a  
23 given load change does to the ability to export firm  
24 power, transmission constraints is -- is almost entirely  
25 outside that realm of thinking, because it's looking at

1 long-term drought type of situations. In drought type of  
2 situations, you don't have -- you don't have heavy loads  
3 on the transmission lines.

4 But that doesn't mean that -- that any  
5 constraints, be it transmission or generation,  
6 irrelevant. It just means that it -- that it doesn't  
7 change the extent to which you are impacting the ability  
8 to commit to firm sales.

9 But as time goes on, having committed to  
10 those firms sales, if you've committed to firm sales as a  
11 result of change in domestic load -- domestic firm load,  
12 it will change your ability to make opportunity sales,  
13 because you've now committed to a basic sale. The firm  
14 sales come first; opportunity, given the name, only comes  
15 after that.

16 The -- and it only affects the power being  
17 sold on the increment on top of firm. And I'll give you  
18 example of -- of what I mean. If we're staying in the  
19 realm of firm exports, and if we have two (2) scenarios -  
20 - one in which we have a given domestic load and one in  
21 which that domestic load is reduced by two (2) units --  
22 one on-peak unit and one off-peak unit -- the Power  
23 Resource Plan tables will say, You've just freed up two  
24 (2) units that you can make as a firm export sale. And  
25 it will give the ability to commit to those.

1                   Having committed to those two (2) as a  
2 firm export sale, they'll be firm on-peak sales; that's  
3 what Hydro makes, firm on-peak sales.

4                   Now you hand that system over to someone  
5 who has to operate it and decide how to do opportunity  
6 sales. They've just taken a reduction in an on-peak sale  
7 unit and reduction off-peak unit and turned them into two  
8 (2) units of on-peak commitment.

9                   Whether you're dealing with generation  
10 constraints or transmission constraints, you've just  
11 increased your commitment on-peak more than you've  
12 reduced your load on-peak. And as a result, if you were  
13 -- whether you were previously generation constrained or  
14 transmission constrained, either way you have less  
15 ability to make those opportunity on-peak sales now,  
16 because you've created two (2) units of sale in on-peak,  
17 where you've only freed up one (1) unit by reduced load.  
18 That other unit was freed off in the off-peak. And, as a  
19 result, you end up bumping opportunity sales off the  
20 system.

21                   Now, it's going to change in every  
22 different water flow condition. It's going to change in  
23 every different loading condition. And depending on  
24 whether it's hot or cold in the US, all -- you can go  
25 through graph after graph and look at all the different

1 scenarios. The basic point is that when you work your  
2 way through the system, you can't only look at the firm  
3 sales and say every unit of additional firm, domestic  
4 sales, will translate one-to-one into an increased or  
5 decreased ability to make firm export sales. There are  
6 other constraints on the system, and that is not always  
7 the best linkage for -- for the impact of changes on the  
8 power system.

9           If it is indeed generation that is  
10 constraint on your system, most of the time Hydro does  
11 not have the same ability to take off-peak sales, hoard  
12 the water, and then sell it the next day on-peak, because  
13 the generation is already limited off-peak. You can't  
14 generate anymore.

15           And that was just sort of a -- a generic  
16 comment in order to try to help deal with the questions  
17 about the tie-line constraints.

18           At the end of the day it raises  
19 significant concerns for somebody who is an industrial  
20 customer being told that the appropriate -- or that the  
21 load that they are impacting is a firm on-peak sales,  
22 even though the power they're using is off-peak if --  
23 they don't link well. A firm on-peak sale is a premium  
24 product that they're being linked to and is expected to  
25 bear the costs of.

1                   So in section B1 we -- we effectively set  
2 out this basic point. I will say it has evolved a bit  
3 through this Hearing. But at the end of the day, it's  
4 really indifferent as to whether we're talking about --  
5 about generation constraint or a transmission constraint,  
6 even at the technical level.

7                   Now, this is also dealt with in Hydro's  
8 rebuttal evidence at pages 1 to 3. It has a few other  
9 points thrown in the middle there that -- that I won't  
10 bother to comment on, but I can deal with it if there's  
11 questions on it in regards to the reserve capacity and  
12 the extent to which -- which the position was planned on  
13 dependable and -- and why we're building more tie-lines,  
14 if indeed tie-lines are not the constraint.

15                   Just to keep moving, Appendix B2, which is  
16 at page B-4, was an ability to deal with the basic  
17 assertion about industrial load growth. And Mr. McLaren  
18 can go through the -- what we looked at there and what we  
19 summarized, and I'll have some comments on Hydro's  
20 rebuttal as we go through these last three (3)  
21 appendices.

22                   MR. ANDREW MCLAREN: Good afternoon, Mr.  
23 Chairman and members of the panel. In this Appendix B2,  
24 what we tried to test was the degree to which industrial  
25 load growth in the recent past and -- and forecast in the

1 future is a reasonable driver for the need for this --  
2 this rate.

3           And what we did when we looked at this, we  
4 relied in particular on a set of load forecasts that were  
5 provided in response to MIPUG/Manitoba Hydro-1-3C.

6           And what we looked at there was beginning  
7 with the 1998 load forecast, we looked at what -- what it  
8 showed for industrial -- or -- or I should say for  
9 industrial load growth and expectations of loads in  
10 2007/'08. And we found that they actually unfolded very  
11 close, very similarly to what was forecasted in that 1998  
12 load forecast.

13           And so -- so from there we sort of  
14 concluded that it would be difficult to say that -- that  
15 this load forecast was dramatically different than --  
16 than things that someone -- people at Manitoba Hydro  
17 might have expected at some point. If fell within the  
18 range of things, of -- of figures that people had talked  
19 about in some of these historic load forecasts.

20           The second thing we looked at was load  
21 forecasts in the next nine (9) years, the coming nine (9)  
22 years. And -- and we found that -- that there the degree  
23 -- the pace of growth also didn't seem to be changing  
24 that dramatically from what had been experienced in the  
25 recent past.

1                   And we note that in a -- in a -- the  
2 newest load forecast that's available -- been made  
3 available in this proceeding, those numbers for forecast  
4 growth appeared to have declined even further. So the  
5 pace of growth, looking in the next nine (9) and ten (10)  
6 years, doesn't seem to be dramatically out of line with -  
7 - with things that people have experienced in the recent  
8 past.

9                   We've also provided some information in  
10 this appendix from other jurisdictions. In particularly  
11 we looked at -- at British Columbia and -- and Quebec and  
12 -- and saw that these aren't jurisdictions that aren't  
13 experiencing new customers. There's certainly major new  
14 customers reported in Quebec and -- and some large  
15 customers locating in British Columbia as well.

16                   What may be different between those  
17 jurisdictions is that British Columbia and Hydro Quebec  
18 had experienced offsets in their load growth due to  
19 declines in the forestry sector, which Manitoba hasn't  
20 seen to that degree to date.

21

22                   (BRIEF PAUSE)

23

24                   MR. PATRICK BOWMAN:   Now, Manitoba  
25 Hydro's rebuttal evidence deals with this point at pages

1 13 to 16, and there is not much more there that probably  
2 needs a lot of comment at this point.

3           Generally, they acknowledge the points  
4 that we've made, outside of calling them irrelevant, and  
5 -- and go -- basically go on to note that one of the  
6 reasons industrial load growth is down is because they've  
7 -- this rate has now sufficiently reduced their forecast  
8 by -- or has reduced their forecast by causing customers  
9 to reconsider plans.

10           There's one point that probably merits a  
11 bit of comment, and it's in regards to them continuing to  
12 say that the most energy-intensive loads are forecast to  
13 grow at 4.6 percent a year. The definition of "most  
14 energy-intensive" isn't necessarily a given. The -- it  
15 doesn't mean all customers covered by the rate,  
16 presumably. It means some subset of customers covered by  
17 the rate.

18           But I -- I guess I find it hard to  
19 reconcile the concept that these customers that are  
20 asserted to be very, very price-sensitive are going to  
21 grow by a faster-than-normal rate in Manitoba after being  
22 imposed a rate of five point five (5.5) cents on them.  
23 If they're really that price sensitive, they have options  
24 considerably lower than five point five (5.5) cents in  
25 other places.

1                   So it's hard to reconcile the idea that  
2 they're going to grow fast but that somehow they're  
3 mobile or -- or not captive or able to move. That --  
4 that point, I think, is -- is sort of an outstanding  
5 concern, looking at the rebuttal evidence.

6                   The other general comment I would make and  
7 -- and think I've touched on this earlier, but it's  
8 probably comes better out of the documents that are filed  
9 by Mr. Peters in his book of documents, that looking to  
10 Hydro's load forecast, in many cases the biggest change  
11 in the load forecast is not in the sectors they're  
12 calling energy-intensive.

13                   The biggest change in the load forecast is  
14 in the primary metal sector. And you see that, for  
15 example, in the -- the two (2) versions of the load  
16 forecast provided in Tab 7:

17                   " In the '05/'06 version Hydro was  
18 forecasting the primary metal sector to  
19 drop from 2.3 terawatt hours to 1.7  
20 terawatt hours over the coming ten (10)  
21 years."

22                   By the '06/'07 load forecast, they were  
23 now expecting the load forecast for primary metals to --  
24 to go from 2.3 terawatt hours to 2.4 terawatt hours. But  
25 instead of a managed decline in that sector, we are

1 actually going see them sustain and even grow a bit.

2                   And that swing -- seven (7) -- point seven  
3 (.7) terawatt hours -- is -- is really quite material.  
4 And it's -- it's lost, in a sense, by looking at the --  
5 just the percentage growth numbers. And so I thought  
6 that merited a comment.

7                   MR. ANDREW MCLAREN: The next section of  
8 our -- the next section of our Appendix is -- is B3,  
9 beginning on page B-8 of the InterGroup evidence. And  
10 this is just a couple of pages that addresses the issue  
11 of whether industrial growth is occurring in Manitoba due  
12 to low electricity rates.

13                   And we looked at two (2) pieces of  
14 information, really, to try and test this. The first is  
15 a response to PUB/Manitoba Hydro-1-19, which shows some  
16 of the revenue that's forecast to be achieved under this  
17 rate proposal.

18                   And when we looked at those responses it  
19 appeared that most of the revenue, at about two thirds  
20 (2/3s) or so, is forecast to come from the petroleur --  
21 petroleum sector, which ordinarily isn't a type of  
22 customer you think of as -- as being able to be very  
23 price-sensitive, in terms of making location decision.

24                   And by contrast, when we think about the  
25 types of customers that -- that ordinarily people do

1 think about as having electricity as a primary  
2 determination in their location decisions -- aluminum  
3 smelters or the servers -- the server farms people hear  
4 about -- we haven't seen any of those locate in Manitoba.  
5 And in fact, what we do have available to us indicates  
6 that these aren't located in Manitoba, and -- and where  
7 in particular these server farms are locating, there are  
8 quite a bit of -- of sort of government support and tax  
9 incentives that are announced as part of the package that  
10 assist in location of those -- those developments in  
11 other jurisdictions.

12                   And so that was really our -- all of our  
13 comment on -- on that particular topic in this Appendix.

14                   And then turning to Section B4, beginning  
15 on page B-10, what we tested here was within the context  
16 of a -- of a Cost of Service Study. We tried to model  
17 what the impact on bulk power cost are of -- of changes  
18 to load growth. And we responded to an Interrogatory  
19 from the Board, PUB-Bowman-McLaren-7, which sets out some  
20 of the tables that we -- we ran to try and explain this  
21 impact.

22                   And -- and what we tried to do, as I say,  
23 was -- was show, using the -- the figures we had  
24 available from the 2007/'08 Cost of Service Study, what  
25 would happen if you added these large loads within the

1 context of bulk power in that Cost of Service Study.

2           And we have some comments on page B-4 that  
3 are worth noting on this analysis. First that, you know,  
4 the type of load we're talking about here is an extremely  
5 large load for Manitoba. There's very few sorts of  
6 customers that would have that -- that level of impact,  
7 and it would be kind of an unusual load situation.

8           We're -- we're also relying on some of the  
9 -- the export information and other -- other variable  
10 that have been discussed in the context of this -- of  
11 this proceeding.

12           But what we found when we -- when we tried  
13 to -- to model this change was that adding this much  
14 load, regardless of whether you add it to a residential  
15 customer class or an industrial customer class, does have  
16 an -- an adverse impact on rates for the other customer  
17 classes at the bulk power level.

18           We -- we weren't trying to deal with  
19 distribution costs or any -- anything related to that; we  
20 were looking at the bulk power system. And that rate  
21 impact was -- for this scale of load, was between about 1  
22 1/2 to 2 percent of an adverse impact, I believe, in that  
23 2007/'08 load forecast -- or Cost of Service Study,  
24 excuse me.

25           MR. PATRICK BOWMAN: Now, just to finish

1 off on the -- that point, as it's dealt with in Hydro's  
2 rebuttal, they deal with our -- our Appendix B-4 at their  
3 Sections 16 to 18, pages 16 to 18, and -- and Attachments  
4 2 and 3.

5                   Outside of the challenge of reading  
6 Attachments 2 and 3, given the font size in their  
7 evidence, the -- I -- I have to say, in a sense, that the  
8 tables are a little bit confusing. But I'm quite -- we -  
9 - we've been able to work through it. It isn't -- we've  
10 now been able to confirm that they're basically tables  
11 that Hydro used in the last GRA and are -- and are  
12 effectively designed to say residential pay higher rates  
13 than industrials, which is true.

14                   It doesn't change anything in respect of  
15 the fact that that point has been made. The -- the  
16 purpose of our evidence was to say that if you're only  
17 looking on net revenue impacts on Hydro as a whole, you  
18 may conclude that a loss of an export kilowatt hour, made  
19 up by a domestic hour, that residential cover more of  
20 the cost than industrial. So be it.

21                   It ignores the fact as to what those res -  
22 - revenues are designed to pay, but it also ignores the  
23 fact that that only occurs when you look at Hydro's  
24 bottom line. When you actually look at customer cost  
25 impacts, if I'm small business, I'm equally impacted,

1 whether the industrials grows by a kilowatt hour, or  
2 whether residential grows by a kilowatt hour, or whether  
3 a medium grows by a kilowatt hour, because the way the  
4 cost of service flows through, it looks at bulk power  
5 costs in total. And every lost kilowatt impacts  
6 everybody effectively the same way. It's very -- it's --  
7 it's very balanced in that way.

8                   So we were trying to sort of bring out  
9 that extra aspect that I don't think was -- was clear in  
10 -- in Hydro's evidence.

11                   Attachments 2 and 3 that Hydro put to its  
12 evidence, just so that people understand, are tables done  
13 using Hydro's approach to marginal costs. As -- as I  
14 said, they're effectively tables used in the same GRA, to  
15 the point that they contain the same math error that we  
16 pointed out in the last hearing, and they are not the way  
17 that utilities use marginal costs.

18                   We -- we discussed in the last hearing  
19 that there's something like three (3) utilities that use  
20 marginal cost to set there rates; one of them is San  
21 Diego Gas and Electric in California, who we -- we had  
22 gone off to talk to and made sure that we understood how  
23 they did marginal costs. And it's not in this way; it's  
24 by function.

25                   So I think in terms of these tables, I

1 don't have much more comment than we had the last time.

2                   The -- there's one point though that  
3 merited making at this stage. In hearings of this type,  
4 there are occasionally words that take on different  
5 meanings and that are a little bit loaded. One of those  
6 is the word "subsidy." And when people use the word  
7 "subsidy," they can mean very different things.

8                   One way that that term is used is by  
9 looking at something like the Cost of Service Study and  
10 saying that when you assign every class a -- a fair share  
11 of embedded costs, that because the export revenues pay  
12 more than their embedded costs, and those export revenues  
13 are funnelled back to other classes, everyone's receiving  
14 a subsidy from the export revenues. It's -- the term is  
15 -- is occasionally used that way, and it's said in many  
16 hearings over the years that as a result, no class is  
17 paying its embedded costs.

18                   I just want to make sure that we're --  
19 we're clear that as of this last rate change, that is no  
20 longer true for all of the classes. Industrial customers  
21 at this point, even before they receive a nickel of that  
22 export revenue, are now covering more than their embedded  
23 costs.

24                   That -- the table in -- that Mr. Peters  
25 used in his -- in his book of documents that summarize

1 the PCOSS results have the costs to industrial customers  
2 at three point two (3.2) cents, and the rates are about  
3 three point three (3.3). And that's before you credit  
4 any of the export -- the next export revenues.

5                   So at least as that term, "subsidized" is  
6 used, sometimes it's used by comparison to short-term  
7 marginal costs; sometimes it's used in comparison to  
8 long-term marginal costs. At least it's used with  
9 respect to embedded costs.

10                   It is not true that each class is -- is  
11 subsidized by exports. In an embedded cost jurisdiction,  
12 that wouldn't be the measure the discuss subsidization.  
13 But I thought it was important to -- to clarify that for  
14 the record.

15                   Now, just in terms of finishing up, there  
16 is an Appendix B5 in our submission. It was put there  
17 because we were trying to understand the revenue forecast  
18 from this rate.

19                   We were able to reconcile the numbers, or  
20 at least figure out where the mathematics came for the  
21 numbers. and it -- this -- this is a response to  
22 Coalition/MH-1, Round 1, Question 8C, indicates that the  
23 revenue from this rate would grow from about 20 million  
24 to about 25 million a year, according to the IFF --  
25 through the IFF horizon, the ten (10) year horizon that's

1 in the -- Hydro's integrated financial forecast.

2                   We were able to derive that number by  
3 looking at the fact that today, the -- this rate would be  
4 a two point three eight (2.38) cent per kilowatt hour  
5 premium over the standard rate, and then multiplying that  
6 two point three eight (2.38) cent per kilowatt hour rate  
7 times the volume of above-baseline sales.

8                   But the -- the two point three eight  
9 (2.38) cent rate is locked in through the entire period  
10 in that -- in that type of forecast number. If you  
11 actually look at Hydro's forecast of -- of export  
12 revenues, they actually show quite a bit of growth from  
13 the levels that are based on the -- the latest measures,  
14 in part because the Canadian dollar is thought to recede  
15 from the levels that were in there in the firm numbers  
16 that were recently recorded and in part, due to  
17 escalations in the market.

18                   And it's well above the pace of escalation  
19 of the standard rates in Manitoba, such that by the end  
20 of that period, it -- it's possible to -- that that  
21 premium may not be two point four (2.4) cents anymore; it  
22 may be up as high as five point eight (5.8) cents.

23                   And, as a result, the forecast revenues  
24 that are put in there probably significantly understate  
25 what could arise, even if that same level of sales arise

1 that Hydro has put in.

2                   The second factor is, of course, that  
3 Hydro's load forecast includes only known plans of  
4 customers. It doesn't include notable new customers, not  
5 that we get many. I think we've gotten one new GS Large  
6 greater than 100 kV in ten (10) years. But it doesn't  
7 include any provision for notable, at least new -- new,  
8 customers or -- or any -- on -- as yet unplanned  
9 expansions at -- at any of the existing customers.

10                   Some of us who are Manitoba optimists may  
11 like to think that that's maybe not -- doesn't pick up  
12 the full range of people who might actually pay this rate  
13 if -- if it were approved.

14                   The -- I -- I didn't go through our  
15 Appendix A. It's -- it's there for review. Hydro deals  
16 with it and their rebuttal at page 18. But it's -- it's  
17 merely a couple of comments that if someone was to do a  
18 rate of this type and determine that -- that this was  
19 necessary, that there's a few items in Hydro's proposal  
20 that probably could be improved upon. Some of them will  
21 be commented on tomorrow by the MIPUG presenters, I  
22 understand.

23                   In large part, Hydro's rebuttal evidence  
24 deals with our Appendix B, the basic facts of the case,  
25 as opposed to the overall proposal that's there. The

1 exception is their rebuttal evidence starting at page 9,  
2 where they go into the point about, is the proposed rate  
3 unduly discriminatory.

4                   And I think we have dealt with most of the  
5 points that are there. There's a piece in there about  
6 industrial loads causing Wuskwatim to be needed for  
7 domestic purposes, and the -- I think I dealt with that  
8 in the -- in the section on the overall Power Resource  
9 Plan.

10                   There's some comment on the Order in  
11 Council that exists that permit -- allows Hydro to export  
12 power, which says that the power must be surplus to  
13 Manitoba's needs. It -- the Order in Council says what  
14 it says. It would be worth considering whether this is a  
15 means to redefine surplus by effectively making domestic  
16 customers be prepared to bid against exports to determine  
17 if they want the power; otherwise it becomes surplus.

18                   And then there's particularly the -- the  
19 one that I wanted to comment on at page 11, and I believe  
20 I addressed this before lunch. But if not, let me just  
21 touch on -- on this point. Hydro says at line -- line 5  
22 of page 11 of the rebuttal:

23                   "The evidence of Bowman and McLaren  
24                   itself recognizes that some form of  
25                   discrimination may be appropriate to

1                   provide protection to other  
2                   ratepayers."

3                   And they go on to use our discussion of BC  
4 and Quebec in order to set out why they say that we are  
5 recognizing discrimination as appropriate.

6                   I just wanted to make sure that the record  
7 is clear. In our view, neither the BC rate -- rate  
8 supplement-- tariff supplement 6 or the Quebec rates that  
9 are put in place by government policy would be what one  
10 would describe as discriminatory. It's not even a  
11 question of are they duly or unduly discriminatory. They  
12 wouldn't be things that would lead you to even say  
13 they're discriminatory within the context of our -- of  
14 our regulatory arena.

15                   And I -- I may have touched on the  
16 reasoning before, but -- but basically it -- it relates  
17 to the fact that in BC tariff supplement 6 says you need  
18 to look further and further upstream to understand a  
19 customer's impacts on this system as they get bigger and  
20 bigger.

21                   But you're still using the same principle,  
22 whether you're dealing with a homeowner or a large  
23 industry. You're still looking to make sure that the  
24 system reinforcements occur necessary to supply that  
25 customer's load. You're applying the same principle,

1 just a different implementation.

2                   And in Quebec the decision to limit the  
3 obligation to serve to 50 megawatts and take rates for  
4 customers above 50 megawatts out of the regulated  
5 jurisdiction is a decision by government.

6                   And I think I may have touched on this  
7 before. The decision as to whether a rate is  
8 discriminatory or unduly discriminatory in a regulatory  
9 arena occurs within the bounds set out by the  
10 government's policy and legislation. That type of  
11 decision is outside of the arena. It's not something  
12 that's debated before a Board. It just exists. It's  
13 part of the framework we all have to deal with.

14                   Uniform rates would be a similar example  
15 in Manitoba. It's not a question as to whether it's  
16 discriminatory or nondiscriminatory in a regulatory  
17 arena. It's just a function of -- of the -- the framework  
18 that we're assessing in this room, and that's because  
19 it's imposed by legislation.

20                   Now, just to sum up, by the time we were  
21 done going through the matters noted -- and this is set  
22 out -- our overall conclusion at page 7 of our evidence.

23                   It was the conclusion of the InterGroup  
24 submission that the rate as proposed by Hydro compromises  
25 basic regulatory fairness principles.

1           That the proposal is unusual, to say the  
2 least, in a regulatory framework and -- and would require  
3 a -- quite an unprecedented action by this Board to  
4 approve something that is quite clearly discriminatory.

5           That there's -- Hydro's evidence doesn't  
6 provide a reasonable or sufficient justification for that  
7 level of -- of action or decision by this Board, in our  
8 submission.

9           And that if indeed the concern is about  
10 dealing with the system impacts of large new customers,  
11 there are established ways to deal with it. Something  
12 like tariff supplement 6 in British Columbia helps ensure  
13 that the capital costs for capacity-related abilities to  
14 supply customers, transmission, or in some cases things  
15 like thermal generation, are -- are dealt with.

16           Once the system, though, is put in place,  
17 to be able to supply the capacity that's needed, the --  
18 there's no basis in -- in the proposal that or in  
19 established regulatory precedent to consider one set of  
20 kilowatt hours different than another set, in terms of  
21 the principles applied to them as to which -- which  
22 effectively gets service and in better rates and which  
23 don't qualify for service.

24           And so in that regard we would say that  
25 Hydro's proposal should be denied.

1                   That -- that would sum up the direct  
2 evidence.

3                   MR. JOHN LANDRY:    And, Mr. Chair, I have  
4 no further questions, so the panel is subject to your  
5 direction.

6                   THE CHAIRPERSON:    Okay, thank you, the  
7 panel and Mr. Landry.  So we will begin now with Mr.  
8 Williams.

9                   Mr. Williams...?

10

11 CROSS-EXAMINATION BY MR. BYRON WILLIAMS:

12                   MR. BYRON WILLIAMS:    Thank you.  Good  
13 afternoon, Mr. Chairman and members of the Board.  I  
14 think in the second row, by the water cooler, Ms. Desorcy  
15 is back for a -- for a taste of the regulatory  
16 experience.

17                   And I certainly want to welcome you, Mr.  
18 Ostergaard, as -- and welcome you back, Mr. Bowman and  
19 Mr. McLaren.

20                   Just for the -- the panel's benefit, the -  
21 - in the next, probably, half an hour or so I'll -- I'll  
22 be going through a bit of the evidence, both primarily of  
23 Mr. Ostergaard, but also some of Mr. Bowman.  So those  
24 two (2) pieces -- Mr. Bowman and Mr. McLaren -- so those  
25 two (2) pieced of evidence you may wish to have at hand.

1 And we're not going to start quite there, but if you're  
2 looking for a page to turn to, page 20 of Mr.  
3 Ostergaard's evidence would be a good place to start.

4 Mr. Ostergaard, you -- I know Mr. Landry  
5 went through your qualifications to some degree. But you  
6 are here bringing the benefit to the Board, both your  
7 experience within the -- the government as an Assistant  
8 Deputy Minister in electricity and alternative energy, as  
9 well as -- as a -- the Chair and Chief Executive Officer  
10 in the past of the BCUC.

11 Is that right, sir?

12 MR. PETER OSTERGAARD: That's correct.

13 MR. BYRON WILLIAMS: So you bring  
14 experience both from -- from the government policy  
15 perspective as well as from the -- the regulatory  
16 perspective, and in your business -- your consulting work  
17 also from the -- the real world, practical perspective of  
18 business as well, sir.

19 Is that right?

20 MR. PETER OSTERGAARD: I think that's a  
21 fair comment, yes.

22 MR. BYRON WILLIAMS: And you don't need  
23 to turn there, but just in -- in general terms, you take  
24 the position that in any jurisdiction, electricity  
25 pricing for new and existing customers is a significant

1 policy and regulatory matter which potentially effects  
2 economic prosperity and development.

3 Would that be a fair statement, sir?

4 MR. PETER OSTERGAARD: Yes, I recall that  
5 is in my evidence.

6 MR. BYRON WILLIAMS: And that's your --  
7 that's -- that's the position you take? It's an  
8 important matter?

9 MR. PETER OSTERGAARD: It is.

10 MR. BYRON WILLIAMS: And I just want to  
11 draw your attention to -- if you go to page 20, lines 24  
12 to 27, and if you'll permit me, I'll -- I'll read this  
13 in. You comment that BC Hydro was created by a  
14 government that considered large-scale hydro development  
15 as a pro -- prerequisite to the economic development of  
16 British Columbia's interior and North, and the role of BC  
17 Hydro in stimulating the provincial economy has been an  
18 implicit policy of all subsequent administrations.

19 That's your position, sir?

20 MR. PETER OSTERGAARD: Yes, it is.

21 MR. BYRON WILLIAMS: And just in terms of  
22 the -- the last part of that sentence, starting on -- on  
23 line 26, I wonder if you can outline what you understand  
24 to be government -- the -- the conception of government,  
25 in terms of the role of BC Hydro in stimulating the

1 provincial economy.

2 What role has it played?

3 MR. PETER OSTERGAARD: Certainly, when BC  
4 Hydro was created in the 1960/1961 period, it was a large  
5 construction company.

6 BC Hydro was responsible for developing, I  
7 believe it was, six (6) major projects on the Peace and  
8 Columbia Rivers. They were the entity to implement the  
9 Columbia River Treaty. They were largely responsible for  
10 electrifying the northern part of the province, as well  
11 as the interior. The pulp and paper industry, the mining  
12 industry in the interior of the province was developed as  
13 part of the vision of the premier of the day, W.A.C.  
14 Bennett to "open up," in quotation marks, the North.  
15 And, in fact, that's precisely what happened in the 1960  
16 and '70s.

17 By the 1980s, as my evidence suggests, BC  
18 Hydro was in an overbuilt situation. The -- as I  
19 mentioned this morning, the Revelstoke projects -- the  
20 1,980 megawatts, which came on stream in 1984/'85 -- was  
21 entirely surplussed to domestic needs.

22 Therefore, BC Hydro had to reinvent  
23 itself. And to do that, it became a management and  
24 operation company to try to keep rates reasonable; to  
25 reduce its debt so that residential, commercial, and

1 industrial customers could continue to enjoy low rates  
2 across the province with a continuing obligation to serve  
3 all new customers, whether commercial, residential, or  
4 industrial, at the same rates as those that were being  
5 paid by existing customers.

6 MR. BYRON WILLIAMS: And I won't dwell on  
7 this. But in the -- in the '60s and '70s, just as I  
8 understand it, two (2) key roles that built, one was --  
9 well, let's do with the first one. One was in terms of  
10 the -- just the capital-intensive nature of its -- its  
11 construction, certainly a fiscal stimulus to the  
12 province.

13 Is that fair?

14 MR. PETER OSTERGAARD: Absolutely. You  
15 can correlate Hydro expenditures with GDP in the province  
16 quite closely.

17 MR. BYRON WILLIAMS: Secondly, just  
18 opening up major areas of the interior and the North to  
19 what was -- were considered to be important economic  
20 developments, whether those are pulp and paper or other.

21 Would that be fair? Mining.

22 MR. PETER OSTERGAARD: Yes.

23 MR. BYRON WILLIAMS: Now, the second  
24 stage that -- that you've discussed, that goes from the  
25 1980s. Does it -- and I'm presuming to -- until today.

1 That's focussed on keeping rates at a -- I think you used  
2 the language "relatively low level."

3 And -- and can you focus in on -- on how  
4 that serves as a -- an economic stimulus, in terms of the  
5 -- or within the province?

6 MR. PETER OSTERGAARD: Certainly.  
7 British Columbia, as our industrial customers tell us, is  
8 a not exactly a low-cost jurisdiction in which to -- to  
9 mine, to mill, to cut trees, and to engage in other  
10 industrial pursuits.

11 The one advantage, in their view -- and I  
12 agree with them -- that British Columbia has over all  
13 others is reliable electricity supply at a reasonable  
14 price. For example, since the early '90s, BC Hydro rates  
15 were largely unchanged for ten (10) years. The rates  
16 were frozen until about 2003, I believe it was; could  
17 have been 2002.

18 When a new government came in, they  
19 continued the rate freeze for another year or two (2) to  
20 come up with a new energy plan.

21 One of the most significant events, in my  
22 view, that took place in the last several years, with  
23 respect to BC Hydro's rates and the policies that help  
24 form them, was the recommendation of the task force that  
25 had been appointed by the new elected Premier in 19 -- in

1 2001. That task force, which was headed by the Deputy  
2 Minister of Energy, recommended that BC move towards  
3 market rates, and that recommendation was very  
4 controversial. It was front-page news. Customer groups  
5 got quite involved.

6 And at the end of the day, the 2002 Energy  
7 Plan said, No, we are not going to market rates; instead,  
8 we will be sending price signals on the margin, first for  
9 industrial customers, by having a stepped rate.

10 MR. BYRON WILLIAMS: And I'm going to, in  
11 a -- in a few minutes -- hopefully before the day's over  
12 -- come back to that decision in 2002. But I want to  
13 stay on the -- the economic stimulus just for a few more  
14 moments.

15 And perhaps you can turn to page 35 of  
16 your evidence, which is probably Appendix B.

17

18 (BRIEF PAUSE)

19

20 MR. BYRON WILLIAMS: Do you have that,  
21 sir?

22 MR. PETER OSTERGAARD: That's the one  
23 that has twenty-three (23) lines on it?

24 MR. BYRON WILLIAMS: Indeed. And just  
25 before we got to the -- the move to -- or the suggested

1 move to market rates, you were talking -- as I understand  
2 it, just to summarize, notwithstanding the fact that BC  
3 has a number of disadvantages economically, in terms of  
4 not making it a low-cost jurisdiction, its one  
5 competitive advantage, I understood you to say, is its  
6 reliable electricity at a -- at a reasonable prices.

7 Is that fair, sir?

8 MR. PETER OSTERGAARD: Yes.

9 MR. BYRON WILLIAMS: And just to perhaps  
10 underline that point, I'll direct your attention to lines  
11 18 to 23 of your -- your evidence here.

12 And you state -- and I'll ask you to  
13 confirm this -- that new BC Hydro customers continue to  
14 benefit from the availability of the heritage contract  
15 energy and from favourable transmission and distribution  
16 extension policies. This has given British Columbia  
17 industrial and commercial businesses a competitive  
18 vantage and has been instrumental in many organizations'  
19 decisions to locate or expand facilities in the province.

20 That's your position, sir?

21 MR. PETER OSTERGAARD: Yes, it is.

22 MR. BYRON WILLIAMS: And I believe you  
23 noted this in your direct this morning, but you were  
24 quoting from the -- what I believe was the BC Energy  
25 Policy from 2007.

1                   And again, you don't need to go there,  
2 sir, but you again used -- it's described as a -- BC  
3 Hydro has a competitive advantage in that -- in that  
4 paper as well, sir?

5                   MR. PETER OSTERGAARD:    Yes, it is.

6                   MR. BYRON WILLIAMS:    Just drawing your  
7 attention and focussing on your assertion that the -- the  
8 availability of heritage contract energy has been  
9 instrumental in many organizations' decisions to locate  
10 or expand facilities in the province, I wonder if you can  
11 give myself and my clients one (1) or two (2) practical,  
12 living examples of -- of what you -- supporting this  
13 statement, and -- and just at a high level, if -- I'll  
14 try and add a broad -- ask a broad question.

15                   Explain the nature of the expansion, how  
16 you believe Hydro was instrumental in bringing about that  
17 expansion, and why you consider that to be of a net  
18 benefit.

19                   Did you get that multi -- multifaceted  
20 question, sir?

21                   The three (3) points were: the nature of  
22 the expansion; how Hydro was instrumental in that  
23 decision; and why you consider that to be of net benefit.

24                   Can you help me with an example or two  
25 (2), sir?

1                   MR. PETER OSTERGAARD:    I guess the one  
2 example that comes to mind from my evidence was the  
3 largest industrial expansion in BC, in terms of megawatt  
4 addition, namely the electrification of new pumping  
5 stations for the Kinder Morgan pipeline that takes crude  
6 oil from Alberta, the Edmonton area, through the lower  
7 mainland and drops them off there and continues on to  
8 Puget Sound.

9                   That is part of North America's oil supply  
10 system, and it has allowed the oil expansion in Western  
11 Canada to expand westward instead of sending it east.  
12 And BC Hydro was instrumental in that decision, from my  
13 understanding, by the -- by the existence of tariff  
14 supplement Number 6, where the contributions, as are  
15 described in the evidence set out.

16                  The -- the net benefit, as I mentioned,  
17 could be attributed to keeping -- from a gasoline  
18 consumer's perspective on -- in Southwestern British  
19 Columbia traditionally we are short of gasoline, which is  
20 what -- one -- one thing that the -- the gasoline  
21 retailers say is a reason for higher prices in West --  
22 West Coast than in other parts of the -- other parts of  
23 the continent. So if we can get more refined product to  
24 the West Coast through an expanded pipeline, then  
25 everybody benefits.

1                   Another example, which I reference in the  
2 evidence, is the strong interest in developing new mines  
3 in Northwestern British Columbia. There's a strong  
4 desire on the part of the regional economy north of  
5 Terrace, north of Prince Rupert, along Highway 37, to  
6 diversify the area of -- of Kitimat to Terrace. And  
7 Prince Rupert is arguably suffering economically more  
8 than other regions in British Columbia. And there is a  
9 strong desire on the part of most residents of the  
10 Northwest to diversify their economy.

11                   And putting a transmission line up Highway  
12 37 to serve, first of all, NovaGold Mine, and possibly  
13 other mines in future, would be very strongly supported  
14 by residents of Northwestern British Columbia.

15                   MR. BYRON WILLIAMS: Thank you. And it  
16 was a broad question which invited a broad answer, and I  
17 -- I thank you for that.

18                   Just in terms of what -- what you and the  
19 -- the British Columbia Government des -- describe as  
20 BC's competitive advantage, just for shorthand purposes,  
21 I'm going to refer to it as the -- the BC advantage.

22                   Is that fair enough, sir?

23                   MR. PETER OSTERGAARD: Yes, that's a  
24 slogan that is in use in British Columbia.

25                   MR. BYRON WILLIAMS: Do I owe any

1 copyright fees for that, sir?

2 MR. PETER OSTERGAARD: You'll have to  
3 check with -- with the government's communication's  
4 department.

5 MR. BYRON WILLIAMS: Perhaps I have a  
6 future there.

7 Just in -- and -- and Mr. Bowman spoke of  
8 this, and I'm not ref -- I'm still sticking with you, Mr.  
9 Ostergaard. But -- but he seemed to -- to be making the  
10 point that selling at embedded costs, or -- or some  
11 version of that, from an economic developed --  
12 development perspective, allowed one to, rather than just  
13 sell products, raw materials, to consider the -- develop  
14 the opportunity to add value to them in -- in additional  
15 industrial processes.

16 Is that a view that you share, sir?

17 MR. PETER OSTERGAARD: Yes, I do.

18 MR. BYRON WILLIAMS: So when you speak of  
19 the BC advantage, which I understood is copyrighted by  
20 government communications people, it's an ability to use  
21 the hydroelectric bounty that -- that nature has given  
22 British Columbia as a tool to attract and -- and retain  
23 development that either diversifies the economy or adds  
24 value to the economy.

25 Is that fair, sir?

1                   MR. PETER OSTERGAARD:   Without getting  
2 into the -- the slogan too mar -- too far, the BC  
3 advantage covers more than simply electricity. It in --  
4 or it includes things like lifestyle, healthy climate  
5 most of the time, strong quality of life, clean air,  
6 clean water, et cetera, and the economic benefits that  
7 lead to a higher quality of life, secure, reliable  
8 electricity supply, energy, healthcare, et cetera.

9                   MR. BYRON WILLIAMS:   And I'll --

10                  MR. PETER OSTERGAARD:   Electricity is one  
11 component.

12                  MR. BYRON WILLIAMS:   And I'll come back  
13 in -- in a couple moments, perhaps, to how, if at all,  
14 electricity may -- may contribute to lifestyle as well.  
15 I'm not sure if that's part of your -- the BC advantage  
16 or not.

17                                You'll agree with me though, Mr.  
18 Ostergaard, that an alternative to using heritage rates  
19 as a mechanism to achieve a competitive advantage is  
20 instead to price all usage, or a significant proportion  
21 of existing usage, at market rates.

22                                That's a different way of -- of looking at  
23 a way to take advantage of bountiful hydroelectricity,  
24 correct, sir?

25                  MR. PETER OSTERGAARD:   Yes.

1 MR. BYRON WILLIAMS: And you were in the  
2 Hearing, I -- I believe, for -- for much of yesterday.

3 Is that right, sir?

4 MR. PETER OSTERGAARD: For much of it,  
5 yes.

6 MR. BYRON WILLIAMS: And you may have  
7 heard Mr. Chernick argue that even if a move to market  
8 rates for some portion of existing usage or -- resulted  
9 in a decrease in production, if it can now -- if a  
10 company reduces production when the cost of a subsidized  
11 input is raised to the market value, the effect is a net  
12 benefit.

13 Do -- do you recall a discussion on that  
14 point, sir?

15 MR. PETER OSTERGAARD: I vaguely recall  
16 it; but I must admit, I was not listening closely.

17 MR. BYRON WILLIAMS: And that's fair  
18 enough. But you've -- you've agreed that an alternative  
19 to the -- to the competitive advantage of -- of hydro  
20 from -- as a method to add value-added is to -- to move  
21 to a predominantly market-based approach.

22 We've -- you -- that's what we've agreed  
23 on already, sir?

24 MR. PETER OSTERGAARD: The alternative to  
25 a cost-based embedded cost structure -- which Manitoba,

1 British Columbia, and most of Quebec currently enjoy --  
2 is to develop some sort of alternative market mechanism,  
3 which inevitably involves pricing the product on a market  
4 bases as opposed to a cost of production, a cost-of-  
5 service basis.

6 MR. BYRON WILLIAMS: And I'm not asking  
7 you to advocate for -- for that kind of perception,  
8 obviously. But I'm going to suggest to you that  
9 presumably the thinking behind that would be that BC  
10 could use hydro like Alberta uses oil -- kind of a black  
11 gold, selling it for market rates, and while  
12 simultaneously promoting energy efficiency and -- and  
13 conservation.

14 Is that what you understand to be the  
15 think be -- behind that alternative point of view, sir?

16 MR. PETER OSTERGAARD: Generally, yes;  
17 that's an intriguing analogy.

18 MR. BYRON WILLIAMS: Staying on the same  
19 point, but moving slightly to the -- to the right or  
20 left, I'm not sure which, are -- are you familiar with --  
21 at a high level, with the school of thinking, Canadian  
22 economic nationalism that -- that criticizes certain --  
23 certain development approaches as kind of relegating  
24 Canada to merely being hewers of wood and drawers of  
25 water.

1 Does that ring a bell at all, sir?

2 MR. PETER OSTERGAARD: Yes, it does.

3 It's been an argument that's been going on in economic --  
4 economic geography/international relations circles for as  
5 long as I remember.

6 MR. BYRON WILLIAMS: And is -- and you  
7 may or may not agree with this characterization, but as  
8 compared to the -- the BC advantage or the competitive  
9 advantage, would you see that moving to a -- a  
10 predominantly market-based system as being more  
11 representative of that traditional thinking, kind of  
12 hewers of wood, drawers of water, sir?

13 MR. PETER OSTERGAARD: I don't think so,  
14 and I'll use the example of pellet plants. Pellet plants  
15 are -- I shouldn't use the -- the term springing up all  
16 over the province. But to my knowledge there's at least  
17 five (5) or six (6) wood pellet plants that are either  
18 under construction or in operation using mountain pine  
19 beetle killed wood to process and manufacture pellets,  
20 most of which go to Western European markets for thermal  
21 electricity generation.

22 Electricity is a strong component of an  
23 input to those plants. If those plants had been  
24 developed with higher, market based electricity rates,  
25 arguably the bug-killed wood could have gone to Europe on

1 the stump -- not on the stump, off the stump, thrown into  
2 boats, and turned into pellets in another jurisdiction.

3 So electricity rates, I think, are  
4 fundamental in encouraging a biomass industry in British  
5 Columbia, which does include wood pellet manufacturing.

6 MR. BYRON WILLIAMS: Thank you for that.  
7 And just to turn you to your evidence to page 30; and  
8 that's still Attachment B, I believe.

9 Do you have that, sir?

10 MR. PETER OSTERGAARD: Yes, page 30,  
11 Attachment C.

12 MR. BYRON WILLIAMS: My mistake. And  
13 just -- and you talked earlier about the -- the energy  
14 task -- the task force on energy policy in British  
15 Columbia. And I want to focus on the 2002 task force on  
16 -- on energy policy.

17 I understand it made a number of  
18 recommendations to the BC government, many of which were  
19 implemented in the 2002 BC Energy Plan, sir.

20 And that's focussing your attention on --  
21 on the bottom, kind of, from page -- lines 26 to 38 of  
22 your -- of your -- of page 30, sir.

23 MR. PETER OSTERGAARD: Yes, that's  
24 correct. In the 2002 Energy Plan, Appendix 1 is titled,  
25 "Comparison of Energy Policy Task Force Recommendations

1 with Energy for Our Future, A Plan for BC," which is the  
2 name of the energy plan.

3 MR. BYRON WILLIAMS: And you just  
4 indicated to me before that although -- or I'm going to  
5 suggest to you that although the energy -- energy plan  
6 adopted many of the recommendations of the task force,  
7 two (2) which it rejected -- and I'm referring you to  
8 line 34, sir, of your evidence, if that will help you --  
9 were the recommendations to create a wholesale elect --  
10 electricity market in BC and -- and the recommendation to  
11 move to market pricing over ten (10) years.

12 Is that right, sir?

13 MR. PETER OSTERGAARD: Yes, that's  
14 correct.

15 MR. BYRON WILLIAMS: And in your  
16 discussion with me earlier today, you -- you suggested  
17 that this was very controversial and made the headlines  
18 in 2002.

19 Is that right, sir?

20 MR. PETER OSTERGAARD: Yes, it did. It  
21 was very publically -- had a high public profile amongst  
22 the labour movement, amongst electricity consumers, not  
23 just industrial customers. I recall at the time that  
24 California, Oregon, and Washington had just gone through  
25 a -- an electricity crisis, and that was also very much

1 in the public mind on the West Coast.

2 MR. BYRON WILLIAMS: And thank you for  
3 that. And just in your evidence at lines 37 to 38 you --  
4 you note that the recommendations had been opposed by BC  
5 Hydro -- Hydro customer groups and the -- and the general  
6 public, correct?

7 MR. PETER OSTERGAARD: Yes, that's  
8 correct.

9 MR. BYRON WILLIAMS: And in terms of  
10 customer groups, you mean not just industrials.

11 Would you -- were residential customers --  
12 was there some sense that they were opposed to this as  
13 well, sir?

14 MR. PETER OSTERGAARD: I can't recall  
15 exactly in my own mind if I ever saw a letter, for  
16 example, from a consumer representative group. However,  
17 I am certain that the industrial customers, through the  
18 Joint Industry Electricity Steering Committee, were very  
19 public in their opposition to that recommendation, as  
20 were labour organizations.

21 MR. BYRON WILLIAMS: Just at a high  
22 level, can you summarize your understanding of why  
23 industrials, first of all, were -- were opposed to that --  
24 -- that sort of direction?

25 MR. PETER OSTERGAARD: Industrials were

1 seeing what was happening to their counterparts in  
2 Ontario, Alberta, California, and other jurisdictions  
3 that had reformed their electricity markets in such a way  
4 that cost of service based, monopoly based pricing was  
5 being changed to unbased on market rates.

6 And in their view, based on their  
7 experience, electricity rates in those jurisdictions were  
8 rising very, very quickly, relative to jurisdictions that  
9 continued with cost-of-service-based rates, including  
10 British Columbia.

11 MR. BYRON WILLIAMS: And from the  
12 perspective of labour -- labour unions, can you -- your  
13 understanding of their objection, sir?

14 MR. PETER OSTERGAARD: My understanding  
15 of the objectives -- objections of the -- of the labour  
16 movement in British Columbia were the fear that BC Hydro  
17 would be broken up and privatized, and -- and, therefore,  
18 unions may be decert -- decertified in the process.

19 At the time also, BC Hydro was contracting  
20 out much of its backroom billing service to a company  
21 called Accenture. That was also very controversial.

22 MR. BYRON WILLIAMS: And without getting  
23 too much into the -- more into the BC advantage, we -- we  
24 primarily talked about the hydroelectric competitive  
25 advantage as applying to industrials.

1                   How, if at all -- well, first of all, my  
2 understanding is that heritage rates were also available  
3 to residential customers, sir?

4                   MR. PETER OSTERGAARD:    The heritage  
5 contract defined in law is available to all customers in  
6 British Columbia.

7                   MR. BYRON WILLIAMS:    From a policy  
8 perspective, what's the thinking behind making it  
9 available to -- to residential, sir?

10                  MR. PETER OSTERGAARD:   All customer  
11 groups are entitled to share in the benefits of the  
12 investments made in the '60s and '70s in BC Hydro's  
13 electricity generation system.

14                  MR. BYRON WILLIAMS:    Now, just taking  
15 largely off -- well, taking off a bit of your ADM hat and  
16 putting on more your BCUC hat, at a very high level, my  
17 understanding is that the -- is that the BCUC operates as  
18 an independent exter -- expert tribunal in setting rates  
19 for certain rates in British Columbia, including  
20 hydroelectricity rates.

21                                Is that fair, sir?

22                  MR. PETER OSTERGAARD:    That's fair.  But  
23 in anticipation of the possible next question, through  
24 most of the 1990s, through my term at the BCUC, BC Hydro  
25 rates were first capped and then frozen by legislation.

1 So I was not personally involved in significant rate  
2 decisions on the part of the BCUC.

3 MR. BYRON WILLIAMS: I'll have to  
4 research where that question could have led me. I wasn't  
5 -- I wasn't heading there. I'm just -- so don't worry.

6 But you spoke in direct evidence today  
7 about a fair degree of interaction between the  
8 government, in terms of setting policy, and the BCUC, in  
9 terms of implementing that policy.

10 Do you recall that, sir?

11 MR. PETER OSTERGAARD: Yes, I do.

12 MR. BYRON WILLIAMS: And I don't know if  
13 the -- this argument extends to Manitoba, but I think the  
14 language you use is:

15 "Uneasy is the head of he who regulates  
16 the Crowns in British Columbia."

17 Is that the language you use, sir?

18 MR. PETER OSTERGAARD: That was a comment  
19 that was made by one of my predecessors at the BCUC, and  
20 it's fairly well-known throughout the regulatory  
21 community in British Columbia.

22 MR. BYRON WILLIAMS: Where I'm going with  
23 this, sir, is you've talked about in the -- since the  
24 1990s, I believe, four (4) different energy plants for  
25 British Columbia set out by the provincial government,

1 sir?

2 MR. PETER OSTERGAARD: Perhaps I can take  
3 the opportunity to correct a -- a mistake I made this  
4 morning.

5 Early in my direct evidence, I -- I noted  
6 that BC governments had issued four (4) energy plans. I  
7 stated the first was from 1990. Actually, the second was  
8 from 1990; the first was from 1980. So the first plan  
9 was issued in 1980, the second in 1990, the third in  
10 2002, and the fourth in 2007.

11 Thank you for the opportunity to correct  
12 myself.

13 MR. BYRON WILLIAMS: That's fine, and no  
14 problem.

15 And, again, without going to it, but the -  
16 - the 2002 Energy Plan, for example, entrenched the -- if  
17 you're looking for a reference, sir, it's probably at  
18 page 31 of your evidence. It entrenched the -- the  
19 heritage contract and also suggested that -- made a  
20 commitment that BC Hydro ratepayers were to continue to  
21 benefit from electricity trade.

22 Is that fair, sir?

23 MR. PETER OSTERGAARD: Yes, that's  
24 correct.

25 MR. BYRON WILLIAMS: What I'm hoping for

1 some guidance from you for is some sense of how these  
2 energy plans interact and how they're -- how they guide  
3 the deliberations of the regulator in British Columbia.

4 MR. PETER OSTERGAARD: The regulator,  
5 first of all, reads the plans. The regulator may ask  
6 government for clarification. In the case of the  
7 heritage contract, the government asked the BCUC to  
8 define what is, essentially, a one (1) paragraph policy  
9 statement in the plan and also articulate it, come up  
10 with draft legislation and special directions that the  
11 government could consider.

12 And in the case of the legislated heritage  
13 contracts, the commission did -- was indeed requested by  
14 Cabinet to develop recommendations on the heritage  
15 contract and regarding stepped rates and transmission  
16 access.

17 So two (2) of the key recomme -- or two  
18 (2) of the key policies, rather, in the 2002 plan were  
19 expanded upon, developed by a BCUC process -- which was  
20 very public, lots of input by interested stakeholders.

21 They submitted their report and  
22 recommendations to Cabinet; Cabinet accepted almost all  
23 of the recommendations with respect to both the way the  
24 heritage contract should be structured and the stepped  
25 rates should be structured.

1                   MR. BYRON WILLIAMS:   From your direct  
2 evidence this morning, sir, and recognizing that you're  
3 not particularly familiar with -- with Manitoba, but the  
4 -- the inference that I drew was that there's a more  
5 intensive interaction between the BC government -- at  
6 least your -- your observation was, on a preliminary  
7 basis, that there is a more intensive interaction between  
8 the BC government and the BCUC, as compared to what  
9 you've observed between the province and the regulator in  
10 Manitoba.

11                   Would that be a fair statement, sir?

12                   MR. PETER OSTERGAARD:   I think that's  
13 fair, without knowing fully how the Public Utilities  
14 Board in Manitoba reacts or relates to the Minister of  
15 Energy or -- or the Lieutenant Governor and -- or counsel  
16 or Cabinet.

17                   Suffice it to say that in British Columbia  
18 there's a variety of ways that the BC Utilities  
19 Commission is limited, guided -- whatever word you would  
20 like to use -- by the government, including legislation,  
21 including special directions under the Utilities  
22 Commission Act, including Ministers' Exemption Orders  
23 under the Utilities Commission Act, and through special  
24 directives to BC Hydro, to which BCUC must -- must abide.

25                   MR. BYRON WILLIAMS:   I'm going to come in

1 a second to how that intensified interaction might be a  
2 good thing.

3                   But before I do that, as someone who has  
4 worn both hats, do you have any concern in -- in terms of  
5 the -- the perception that a model such as that might  
6 create in terms of the independence of the regulator,  
7 sir?

8                   MR. PETER OSTERGAARD: There's always a  
9 balance between the independence of an administrative  
10 tribunal and the desires of its -- of -- of the people  
11 who appoint it.

12                   In the case of British Columbia, I've seen  
13 some jurisdictions that have left the Utilities  
14 Commission to its own devices. At times, the Utilities  
15 Commission would have liked to have had some guidance on  
16 some issues and didn't get it from government?

17                   The other extreme is the concern that the  
18 Commission is being severely limited in its ability to  
19 review things that other -- otherwise would have wanted  
20 to.

21                   An example coming to mind is the situation  
22 where BC Hydro's rates had been capped by legislation.  
23 BC Hydro was over-earning. They were making a lot of  
24 money in the export market. Customer groups came to the  
25 Commission and said: BC Hydro is over earning. Rates

1 are capped but you can still lower them.

2 The out -- the upshot of that particular  
3 situation was the government responded with legislation  
4 that froze rates, instead of just capping them.

5 So, yes, there are certainly situations  
6 where arguably the Utility's ability to have a free hand  
7 in regulating the Utility may be limited by government,  
8 because government sometimes has different reasons, in  
9 terms of public interest, than the Commission does with -  
10 - which -- of course, it has its ratepayers and  
11 shareholders of utilities' interests at heart.

12 MR. BYRON WILLIAMS: Just moving to  
13 Manitoba, you'll -- you'll agree in this proceeding,  
14 we're dealing with -- collectively, with a variety of  
15 complex questions including the appropriate role for  
16 pricing based upon embedded costs versus market costs?

17 Those are complex issues, sir? That's a  
18 complex issue?

19 MR. PETER OSTERGAARD: Yes, it is.

20 MR. BYRON WILLIAMS: You'll also agree  
21 that there's also complex issues associated with the --  
22 the appropriate role, if any, that Manitoba Hydro should  
23 play in -- in promoting economic growth and development  
24 through its rates in this province?

25 That's -- that's a complex issue that's --

1 that's before us, at least to some degree, sir?

2 MR. PETER OSTERGAARD: I would agree with  
3 that statement as well.

4 MR. BYRON WILLIAMS: If you were taking  
5 off your consultant hat and back on, kind of the --  
6 sitting as a regulator in a proceeding such as this, sir,  
7 would you have any discomfort in addressing some of these  
8 questions without guidance -- expressed guidance from --  
9 from the province?

10 MR. PETER OSTERGAARD: I guess one's  
11 views on these issues are shaped by one -- one's  
12 experiences and my experiences in British Columbia would  
13 have been that I would have received guidance as a  
14 regulator from governments on how these important issues  
15 should be handled.

16 MR. BYRON WILLIAMS: And as a regulator,  
17 can you -- can see how some sense of provincial direction  
18 in these areas might -- might be of assistance in  
19 fulfilling one's duties?

20 MR. PETER OSTERGAARD: Yes, I believe  
21 provincial assistance would be helpful.

22 MR. BYRON WILLIAMS: Mr. Chairman, I've  
23 kind of come to a convenient break. Noting with pleasure  
24 that I actually kept to my deadlines yesterday, I think I  
25 can advise you that I'll certainly be less than an hour

1 tomorrow. And I may mean at about forty-eight (48)  
2 minutes or so, sir.

3 THE CHAIRPERSON: Very good, Mr.  
4 Williams. We are not going to time you though.

5 MR. ROBERT MAYER: Pardon?

6 THE CHAIRPERSON: The Vice-Chair may time  
7 you.

8 MR. BYRON WILLIAMS: I believe -- I  
9 believe Mr. Cathcart does and I suspect perhaps one (1)  
10 panel member may, as well, sir.

11 THE CHAIRPERSON: Okay. Well, we will  
12 stand down. We will see you all tomorrow morning at  
13 9:00. Thank you.

14

15 (MIPUG PANEL RETIRES)

16

17 --- Upon adjourning at 3:54 p.m.

18

19 Certified correct,

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24 \_\_\_\_\_  
Cheryl Lavigne, Ms.

25