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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 17th, 2008

Pages 1061 to 1301

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APPEARANCES

Bob Peters ) Board Counsel  
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Janet Mayor )  
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John Landry ) MIPUG  
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Bill Gange ) RCM/TREE  
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1 --- Upon commencing at 9:04 a.m.

2

3 THE CHAIRPERSON: Okay. Good morning,  
4 everyone. We are running just a tiny bit late, not so  
5 bad. For the Coalition, Mr. Williams...?

6

7 MIPUG PANEL RESUMED:

8 ANDREW MCLAREN, Resumed

9 PATRICK BOWMAN, Resumed

10 PETER OSTERGAARD, Resumed

11

12 CONTINUED CROSS-EXAMINATION BY MR. BYRON WILLIAMS:

13 MR. BYRON WILLIAMS: Yes, good morning,  
14 Mr. Chairman, members of the Board. And hopefully no one  
15 was taking careful notes last night when I said that I  
16 would take about forty-eight (48) minutes. I thought up  
17 a few extra -- few extra questions, so I apologize for  
18 that.

19 And good morning to the -- the MIPUG  
20 panel. A happy IKEA morning, I guess it -- Mr. Bowman, I  
21 know you're feeling neglected, so I'll get to you in just  
22 a second.

23 But Mr. Ostergaard, in terms of your  
24 evidence -- and again, for the panel's benefit, I will be  
25 referring both to the evidence of Mr. Ostergaard and Mr.

1 Bowman and Mr. McLaren.

2 But perhaps if you could turn to page 10  
3 of your evidence for just one second, sir. And, Mr.  
4 Ostergaard, at the -- at the top of page 10, you're --  
5 you're making reference, lines 1 through 6, to BC  
6 Electric Tariff Supplement Number 6.

7 Is that right, sir?

8 MR. PETER OSTERGAARD: Yes, that's  
9 correct.

10 MR. BYRON WILLIAMS: And we'll come to it  
11 again in a few moments, but I just want to set a bit of  
12 context for some subsequent discussion.

13 My understand, it was approved in 1991,  
14 and it was a result of significant negotiations among the  
15 BCUC staff, BC Hydro, and the main customer groups.

16 Would that be fair, sir?

17 MR. PETER OSTERGAARD: That's my  
18 understanding, yes.

19 MR. BYRON WILLIAMS: Okay. And -- and  
20 again, I don't want to go too far back in time, but in  
21 terms of main customer groups, were you referring not  
22 just to industrials but to other customers groups, such  
23 as residential, sir?

24 MR. PETER OSTERGAARD: If I'm looking at  
25 the order of the BCUC that approved what became Tariff

1 Supplement Number 6, the preambles refer to the  
2 industrial users as participating in the negotiations.  
3 And it's my understanding that representatives of  
4 consumers groups as well signed off on the negotiated  
5 settlement.

6 I am not clear from the preamble as to  
7 whether they actively participated in the negotiations.

8 MR. BYRON WILLIAMS: Okay, fair enough.  
9 And again, just to -- going back to your -- your  
10 evidence, the balance that Tariff Number 6 sought to  
11 strike was the balance between allowing new industrial  
12 customers to share in -- in BC Hydro's low-cost power  
13 while protecting existing ratepayers from unduly  
14 subsidizing new industrial customers.

15 Is that fair, sir?

16 MR. PETER OSTERGAARD: Yes, that's fair.

17 MR. BYRON WILLIAMS: And we'll come back  
18 to that in -- in a few minutes.

19 Mr. Bowman -- and I do apologize for  
20 neglecting you yesterday. I -- I thought a lot last  
21 night about -- and -- and this morning -- about what --  
22 your evidence yesterday. And I'm -- I'm going to try and  
23 quickly, at a high level, just get to a couple points  
24 that you made.

25 Would I be right in -- in concluding, Mr.

1 Bowman, from your evidence yesterday that your sense of  
2 this Hearing is that given the nature of the application  
3 before us, this is really not a hearing about --  
4 primarily focussed on efficiency matters.

5 Would that be fair?

6 MR. PATRICK BOWMAN: That's correct

7 MR. BYRON WILLIAMS: And whether or not  
8 one accepts the legitimacy of -- of the concern, in  
9 essence, what you are saying is that the central issue,  
10 the primary issue in this Hearing, is -- is the question  
11 of large growth and its impacts upon the -- the revenue  
12 situation of Manitoba Hydro.

13 Would that be fair, sir?

14 MR. PATRICK BOWMAN: Yes. Actually, good  
15 morning and thank you, Mr. -- Mr. Chairman, members of  
16 the panel.

17 Yes, that's correct. There -- there are  
18 effectively two (2) different sets of -- of objectives  
19 and things that rates may be trying to achieve, one being  
20 to set off to establish rates that encourage efficiency,  
21 and the other being to achieve the type of objectives  
22 Hydro has -- has set out that are -- are -- in some  
23 cases, they're definitely fundamentally different. In  
24 some cases, they're even at odds.

25 MR. BYRON WILLIAMS: And -- and we'll

1 leave -- and just focussing though in -- in terms of  
2 your -- your point was yesterday that this is really not  
3 focussed on efficiency; this is focussed on other issues,  
4 including the -- the revenue position of Manitoba Hydro  
5 with regard to -- to large new load.

6 Fair enough?

7 MR. PATRICK BOWMAN: Yes, other -- other  
8 issues. The revenue position of Manitoba Hydro is one  
9 that we discussed. The impacts on the overall system  
10 planning is another. It's -- it's different than the  
11 revenue impact. The revenue impact is discussed more as  
12 a short-term type of item. The impacts on system  
13 planning is -- is a much long-term type of item.

14 MR. BYRON WILLIAMS: Thank you, Mr.  
15 Bowman, and that's a very helpful clarification. I  
16 should have been more precise in my question.

17 And without accepting the -- the premise  
18 that -- that there's an issue of -- of whether or not  
19 costs are being unfairly imposed upon others, you'll  
20 accept that one of the -- the questions that we're asking  
21 is in the event that the -- the Board concludes that --  
22 concludes that unfair costs are being imposed in other --  
23 upon others by large new growth, how, if at all, in the -  
24 - the rate setting process do we -- do we address that?

25 Would that be fair?



1                   MR. PATRICK BOWMAN:    I -- I think that's  
2 a fair description.

3                   MR. BYRON WILLIAMS:    And again -- and --  
4 and I'm not asking you to accept the premise that there  
5 is some unfairness or -- or something that requires  
6 resolution.

7                   But if -- if the Board, in its ultimate  
8 wisdom, decides that -- that there -- that there is an  
9 issue that needs to be resolved through rate regulation  
10 or extension policy, the question then becomes: Does a  
11 line need to be drawn, or a -- a couple lines need to be  
12 drawn, and if so, how do we do that in a manner that's  
13 not unduly discriminatory?

14                   Would that be fair?

15

16                   (BRIEF PAUSE)

17

18                   MR. PATRICK BOWMAN:    Well, no. In -- in  
19 my submission, that -- that doesn't fairly describe the  
20 situation we're dealing with.

21                   In essence, the application Hydro's put  
22 forward is to deal with their summary of the problem, as  
23 you stated it, that they see growth in one class causing  
24 impacts on another class. And therefore, we want to find  
25 a way to -- to discriminate at the outset of -- against -

1 - against the class.

2                   So I think -- and perhaps I heard the  
3 question wrong, but I think the issue is the -- the  
4 application, at the outset, is based on being -- on -- on  
5 discriminating in just -- in a -- in a common parlance, I  
6 believe the phrase was used.

7                   MR. BYRON WILLIAMS:    And Mr. Bowman, I  
8 think I understood you yesterday as well.  So what I was  
9 posing is not kind of Hydro's application, but assuming  
10 the Board, in its -- its wisdom, decides that there's an  
11 issue that needs to be resolved through rate regulation,  
12 or -- or extension policy, or otherwise, the question for  
13 the Board -- not Hydro -- then becomes:  How do you --  
14 how do you draw that line without unduly discriminating.

15                                 Would that be fair?

16                   MR. PATRICK BOWMAN:    I -- I guess the  
17 first question, you know, in -- in the event there is an  
18 issue, is the issue that's being put forward so grave  
19 that one wants to move to a method that is going to be  
20 based on discriminating against one set of customers in  
21 order to benefit another?

22                                 And that -- I think that's -- that's a  
23 sort of first test.  As a matter of fact, I've heard  
24 others summarize it as:  Is the -- is the cure posited  
25 worse than the disease that's asserted?  That -- that

1 type of language.

2 MR. BYRON WILLIAMS: And I accept that.

3 So once, let's assume, the Board crosses  
4 that -- that hurdle as well, to this extent, Mr. Bowman -  
5 - it desi -- decides that there's a disease necessary to  
6 be cured -- then the line -- then the question becomes:  
7 Can it do so in a manner that's not unduly  
8 discriminatory?

9 MR. PATRICK BOWMAN: Well, there would be  
10 -- the area of deciding discriminatory rates and how  
11 discriminatory is -- is beyond the limits is not, in --  
12 in my experience and in looking through a number of other  
13 cases and examples, is not well travelled. And so I  
14 think there is some aspect of breaking new ground.

15 But in general, in a regulatory  
16 environment, the -- there would be two (2) aspects that  
17 need to be dealt with.

18 One is principles related to what are  
19 effectively prohibitions on being unduly discriminatory,  
20 which is the comment you made, in -- unduly  
21 discriminatory in the way one treats one class of  
22 customers versus another.

23 And another that's a sort of different  
24 type of thought process that is effectively, similarly  
25 prohibitions against being personally discriminatory.

1 And in that regard, two (2) uses of power that are --  
2 effect, for all -- for intents and purposes, the same  
3 characteristic and impose the same costs on the power  
4 system, but being charged different rates depending on  
5 who the customer is.

6 And though they're -- they're somewhat  
7 distinct over time in sort of the -- the regulatory  
8 theory, but you have to go back sort of a long way before  
9 people were debating these type of things. They're --  
10 they're not type of matters that come up very often in  
11 regulatory discussions these days, from what I can tell.

12 MR. BYRON WILLIAMS: And thank you for  
13 that. That's very helpful, Mr. Bowman.

14 Am -- am I correct again, reflect upon  
15 your -- your direct yesterday. You discussed approaches,  
16 whether of provincial governments in British -- in Quebec  
17 or regulators in British Columbia.

18 And as I understood your evidence, you  
19 suggested that those two (2) -- two (2) different  
20 approaches were addressed, to a certain degree at least,  
21 at -- at a similar issue, but that, in your view, they  
22 had managed to do so in a -- in a manner that was not  
23 unduly discriminatory?

24 MR. PATRICK BOWMAN: Well, both were  
25 similar in that they were trying to wrestle with the idea

1 of how do you deal with large users. I would say that's  
2 about where the similarities stop.

3           Quebec's approach is to say that when  
4 users become large enough -- and I'm summarizing here;  
5 this isn't a quote or anything -- that when users become  
6 large enough, they become a significant public policy  
7 issue, that it is appropriate to have the matters related  
8 to electricity supply dealt with in conjunction with  
9 other socioeconomic benefits and impacts and the like.

10           And as a result, they're a matter that is  
11 dealt with by government. So it takes them out of the  
12 technical, pro -- professional environment of a utility  
13 board that is dealing with electricity rates and takes  
14 them to government that is dealing with the sum total of  
15 all of the impacts on the province.

16           BC goes a different direction, when you  
17 think about how to deal with very large customers. And  
18 remember, these are just two (2) examples. But BC goes a  
19 different way when -- when looking at that.

20           In -- in BC's case, to my knowledge, there  
21 is no limit on the obligation to serve. There's no  
22 threshold beyond which one absolutely goes to the  
23 government. But as Mr. Ostergaard set out yesterday, the  
24 government in BC hasn't been shy to use the tools  
25 available to it when there are overriding public policy

1 concerns.

2                   So, you know, perhaps, although it's not  
3 written the same way as Quebec, one would run into the  
4 same situation if there were new -- a new major load.  
5 But within the regulatory regime there, there is a way to  
6 deal with large new customers.

7                   Mr. Ostergaard has set out some of the  
8 detail in regards to the 1991 order that approved Tariff  
9 Supplement Number 6. Tariff Supplement Number 6, as I  
10 set out yesterday, is oriented towards -- I'll call it  
11 system impacts, capital -- capital investment shocks that  
12 would occur to the system because a large new customer  
13 comes on, including through to the generation system and  
14 making sure that those shocks don't -- don't hit others,  
15 in terms of having to pay for new transmission lines or  
16 new combustion turbines or any other aspects related to  
17 putting in place a system that can reliably deliver the  
18 energy.

19                   It doesn't, though, extend to the ongoing  
20 energy charges or the cost of actually producing that  
21 energy.

22                   MR. BYRON WILLIAMS: Mr. Bowman, that was  
23 a very helpful and appropriately lengthy answer, so I  
24 want to break it into a couple of your responses.

25                   In terms of the -- the similarity between

1 both Quebec and BC, you noted was that they're both --  
2 were both wrestling with the issue of large users,  
3 correct?

4 With -- without elaborating, that was one  
5 of your points?

6 MR. PATRICK BOWMAN: Yes.

7 MR. BYRON WILLIAMS: And in terms of  
8 Quebec, you -- you spoke of a determination that if the  
9 impact on the system is enough, then it was appropriate  
10 for a -- a certain type of intervention.

11 You know -- and I'll get -- give you a  
12 chance to elaborate in a second, but I had your point  
13 there?

14 MR. PATRICK BOWMAN: Yes.

15 MR. BYRON WILLIAMS: And in terms of  
16 significant enough, just to -- to get a bit more  
17 refinement on -- on where it might be significant enough,  
18 one element would be if it had a -- from a principle  
19 approach, a -- an impact on system planning.

20 That -- that's your -- that's one way that  
21 a -- these large users may have a -- an impact, right,  
22 is just on system planning, in certain cases?

23 MR. PATRICK BOWMAN: Well, I can't say I  
24 know what went into the decision in Quebec. They did  
25 used to have a 175 megawatt cutoff that goes back a long

1 ways. In the early 2000s, they did an extensive energy  
2 policy review that led to the energy policy which lowered  
3 the cutoff to 50 megawatts.

4 But it -- whether 50 megawatts was a -- a  
5 number derived in relation to system planning, I -- I  
6 haven't reviewed that -- that two (2) year process,  
7 whatever it went through, to determine whether that was a  
8 key consideration.

9 MR. BYRON WILLIAMS: Okay. And let me  
10 back away from Quebec just for a -- a second, because  
11 where I want to take you, Mr. Bowman, for just a couple  
12 moments, is at a principle basis, when should we care?

13 And you'll agree with me, one -- one  
14 occasion whe -- when we should care is when there's going  
15 to be a significant system impact. I think you -- the  
16 words you might have used was "capital investment shock."

17 Is that fair, sir?

18 MR. PATRICK BOWMAN: Yeah. An example  
19 would be in BC, although the Tariff Supplement Number 6  
20 has never been applied at the greater than 150 MVA level,  
21 it was -- there was a customer who came in asking for  
22 service at -- who was 650 megawatts, an aluminum smelter,  
23 Alberni Aluminum. And the -- the system impacts were  
24 large for a 650 megawatt load, as you can appreciate.

25 And -- and the costs that were included



1 that they had to -- would have had to pay, had they come  
2 on the system, included three (3) combustion turbines --  
3 three (3) large combustion turbines in order to make the  
4 system work with that extra load on it.

5 MR. BYRON WILLIAMS: And another time  
6 when -- when the -- the -- again, from a bigger picture,  
7 one might argue -- you may not accept this, but one might  
8 argue that -- that it's appropriate to intervene in the  
9 case of large users if -- if there's a concern that there  
10 will be a -- a major revenue impact to the corporation as  
11 a whole or to other users.

12 Would -- whether or not you accept that  
13 theoretically, that -- that's one (1) reason why you --  
14 one might want to intervene as well?

15

16 (BRIEF PAUSE)

17

18 MR. PATRICK BOWMAN: Well, you're dealing  
19 with a regulated jurisdiction that starts from thinking  
20 about the rates charged to domestic ratepayers. If  
21 you're bringing on a large new load, you will have a  
22 revenue impact, because they will be paying a significant  
23 amount of revenue.

24 In that context, you have to think about  
25 things like export revenues, which is the -- discussion

1 we have here, as being the second priority. And so  
2 whether the second priority should drive the first, I'm  
3 not convinced that that is a -- a compelling  
4 consideration.

5 MR. BYRON WILLIAMS: And I'll probably  
6 come back to that point a bit later. In terms of British  
7 Columbia, it's your view ultimately, that that resolution  
8 achieved by Tariff Number 6, should not be construed as  
9 being unduly -- or let me try it again, should not be  
10 construed as discriminatory, as I understand your  
11 evidence, because it resulted in like customers being  
12 treated in a like fashion.

13 Is that right, sir?

14 MR. PATRICK BOWMAN: Correct. It applied  
15 the same set of principles to each customer, as best  
16 we're all able to understand. You know, it's -- it's a  
17 long tariff supplement, and it has a lot of detail in it,  
18 but the -- at the outset it's applying the same set of  
19 principles to all customers.

20 MR. BYRON WILLIAMS: And the -- the key  
21 delineating point, in terms of when to -- to apply the --  
22 the differential treatment is -- is when customers are  
23 bringing what may amount to a capital investment shock in  
24 terms of system planning.

25 Is -- is that -- is that the kind of the

1 way the line is drawn in British Columbia, as you  
2 understand it?

3 MR. PATRICK BOWMAN: Well, there's an --  
4 in essence two (2) cutoffs:

5 The first is you don't deal with Tariff  
6 Supplement 6 unless you're dealing with a customer served  
7 off of the transmission system. It -- it's only for  
8 large customers to begin with. It's not the same tariff  
9 supplement used for a residential service drop, but it's  
10 still applying the same principles.

11 The second delineation is in one (1) of  
12 the definitions in Tariff Supplement 6, that says when  
13 you get above the second threshold, which is the 150 MVA  
14 threshold, you effectively have to think about more than  
15 wires, in regards to serving the customers. And that --  
16 that's why generation gets brought in.

17

18 (BRIEF PAUSE)

19

20 MR. BYRON WILLIAMS: So in your view it's  
21 -- that differential treatment in that manner is  
22 appropriate, because they've passed two (2) thresholds, a  
23 certain amount of size, and second, they -- they've  
24 reached a scale where they're affecting more than just  
25 wires.

1                   Is that fair?

2                   MR. PATRICK BOWMAN:   Yes.  It's that  
3  they've passed a threshold where you can reasonably link  
4  things like investment in transmission to a new load  
5  coming on.  You know, I -- I may build a new house and  
6  that may finally overload the transmission line into my  
7  neighbourhood, and as a result some -- will have to  
8  upgrade it, but you can reasonably link that transmission  
9  line to -- to my house.

10                  On the other hand, if a pipeline or a  
11  steel mill or something was to expand and double the load  
12  of a community, and you'll have to upgrade the  
13  transmission, you can reasonably link that transmission  
14  to the load.  So it's the same set of principles.

15                  MR. BYRON WILLIAMS:   Okay, thank you.  
16  I'll come back to you in just a few minutes, Mr. -- Mr.  
17  Bowman.  But, Mr. Ostergaard, asking you to put on your  
18  BCUC hat for a second, based on my conversations with our  
19  mutual friends, Mr. Gathercole and Mr. Quayle, my  
20  understanding is that for a number of issues before it,  
21  the BCUC has employed an alternative dispute resolution  
22  process.

23                  Is that your understanding as well, sir?

24                  MR. PETER OSTERGAARD:   Yes, alternative  
25  dispute resolution processes or negotiated settlement

1 processes, as they're often referred to in British  
2 Columbia, are used fairly frequently as an alternative to  
3 -- to a hearing situation.

4 MR. BYRON WILLIAMS: And this is  
5 important for my clients where they're going in this  
6 hearing, and I don't want to unduly delay things, but at  
7 a very high level, and if you want to take notes on --  
8 I'm going to give you kind of one (1) of those broader  
9 questions, sir, and you can just work with me for a bit.

10 Can you tell me a little bit about how the  
11 ADR process in -- or negotiated settlement process in --  
12 in -- at the BCUC works.

13 And what I'm looking for is the theory  
14 behind it, when you might use it, and just a quick  
15 synopsis of how it might work, and kind of the time lines  
16 that it -- it tends to work on, sir.

17 MR. PETER OSTERGAARD: I believe a  
18 complete description of a negotiated settlement process  
19 is available from the BCUC. They have a guide to the  
20 negotiated settlement process, which would be available  
21 on their website, [www.bcuc.com](http://www.bcuc.com).

22 In terms of how it works and the theory  
23 behind it, is that -- the theory behind it is that it  
24 provides an option to come up with a mutually  
25 satisfactory solution, whereby most, or perhaps all,

1 parties with an interest in an application literally  
2 sign-off on a settlement agreement that they have been  
3 party to as a negotiator.

4           With respect to when you use it, that's a  
5 question that's often decided at a pre-hearing conference  
6 level amongst the applicant, the BCUC, and its staff, and  
7 key stakeholders who have a -- have view -- who may have  
8 views on the application.

9           If a decision is made to send an  
10 application to a negotiated settlement or alternate -- a  
11 dispute resolution process, a BCUC staff member is often  
12 assigned the task of facilitating the negotiations.

13           There's usually three (3) outcomes:

14           One (1) outcome is all parties reach  
15 agreement, in which case the application and recommended  
16 -- recommended solution goes to the commission panel for  
17 review.

18           A second option is the opposite. A  
19 negotiated settlement cannot be achieved and the  
20 application goes to a conventional adversarial hearing  
21 process.

22           A third possible outcome is that agreement  
23 is reached -- reached on most, but not necessarily all  
24 aspects of the application. In which case, an option is  
25 to send the unresolved issues to a hearing process before

1 a commission panel for resolution. In other words, the  
2 application has been scoped and a few outstanding issues  
3 are dealt with by the -- the panel and decisions are made  
4 by -- by the panel.

5 That's essentially how it works. There's  
6 also an opportunity for non-participants in a negotiated  
7 settlement to review on a confidential basis the proposed  
8 settlement and provide comments.

9 MR. BYRON WILLIAMS: And perhaps it's  
10 impossible to generalize, but can you give me any sense  
11 of the timelines on which one normally operates?

12 MR. PETER OSTERGAARD: In my experience,  
13 negotiated settlement processes between the time the  
14 application is received and a decision is made by the  
15 commission panel, the time -- the time expired takes  
16 less, in general, for a negotiated settlement process  
17 than an application that is sent to the full hearing  
18 process with the Information Request, Information  
19 Response, public hearing, final argument, decision  
20 stages.

21 I believe the BCUC annual reports,  
22 available at the same website, provide some statistics on  
23 the turnaround times for applications that go in either  
24 direction.

25 MR. BYRON WILLIAMS: In your experience

1 in British Colu -- Columbia, have you ever heard of a  
2 regulator adjourning a hearing and -- and recommending to  
3 parties that they -- they consider an ADR or a negotiated  
4 settlement, sir?

5 MR. PETER OSTERGAARD: None that I can  
6 recall. Most decisions to take an application to a  
7 negotiated settlement process have taken place before the  
8 hearing starts.

9 MR. BYRON WILLIAMS: And if -- if you  
10 don't wiss -- wish to answer this question, Mr.  
11 Ostergaard, or your -- your counsel doesn't, you can --  
12 you can respectfully decline.

13 But when you kind of step back and look at  
14 the issues in this hearing, sir, as an outsider, do you  
15 see any elements of kind of the debate in this current  
16 hearing that might seem to you open to or susceptible to  
17 a negotiated settlement or ADR process?

18 MR. PETER OSTERGAARD: I would expect  
19 that both the issues of existing industrial customers and  
20 how to treat new industrial customers could be  
21 conceivably managed through a negotiated settlement  
22 process.

23 Perhaps I can qualify my previous answer.  
24 The question was "in my experience", and I really  
25 couldn't think of any. However, I do have a copy of the



1 BCUC Order in front of me that did approve Tariff  
2 Supplement Number 6. And it appears from the several  
3 preamble clauses that that particular hearing was  
4 adjourned on a couple of occasions to attempt to allow BC  
5 Hydro and the industrial users to come to some  
6 negotiation.

7 That was a process that began on December  
8 9th, 1989, with an Application to deal with what became  
9 Tariff Supplement Number 6. And it wasn't until January  
10 21st, 1991, that a decision was made from the Commission  
11 on that particular application, mostly because, from what  
12 I can gather from the preambles, more time was needed  
13 upon which to complete negotiations and discussions.

14 MR. BYRON WILLIAMS: Could you just  
15 repeat the times for me, sir?

16 MR. PETER OSTERGAARD: The Application  
17 was made by BC Hydro for Commission approval for standard  
18 form terms and conditions, on December 5, 1989.

19 Preamble B: These terms and conditions  
20 had been the subject of negotiations between BC Hydro and  
21 the industrial users for a number of years. I'm  
22 paraphrasing here.

23 On April 19th, 1990, the Commission  
24 considered the Application, and determined that all  
25 unresolved issues should be the subject of a public

1 hearing.

2                   On June 8th, at the request of BC Hydro,  
3 the Commission delayed the commence -- commencements of  
4 the hearing to allow more time upon which to complete  
5 negotiations.

6                   On September 14th, 1990, a pre-hearing  
7 conference revealed that BC Hydro and the industrial  
8 users were progressing satisfactorily, and a further  
9 delay in the proceedings was warranted.

10                   On September 14th, 1990, the Commission  
11 further delayed the start of the proceedings to November  
12 19th, 1990, to allow for continued meaningful discussions  
13 on the contracts.

14                   On November 19th, 1990, the public hearing  
15 commenced. And after two (2) subsequent adjournments in  
16 order to allow for continued meaningful negotiations, the  
17 final da -- hearing date into the proceeding occurred on  
18 December 17th, 1990.

19                   And the Commission approved the  
20 Application, and issued its order on the 21st day of  
21 January, 1991.

22                   MR. BYRON WILLIAMS: Thank you. Mr.  
23 Bowman, without inviting you to tee-off on Manitoba  
24 Hydro, would it be fair to say that your preparation for  
25 this hearing would have been aided by a more timely

1 filing of an in-depth analysis of the value of on-peak  
2 versus off-peak energy sales into the MISO market?

3 MR. PATRICK BOWMAN: Having been here for  
4 six (6) days now of hearing, I would say the hearing  
5 process may have been more efficient had it been there.

6 With our re -- review of the issue, and --  
7 and as I summarize when I went through Appendix B1  
8 yesterday, immediately after lunch, it -- it seems to us  
9 that -- that the question of -- of the -- the T-lines and  
10 many of the issues on the -- the ability to move power  
11 from on-peak to off-peak and the like, aren't -- are not,  
12 at the end of the day, central to the decisions that need  
13 to be made in this case. They're -- they're central to  
14 assessing Hydro's assertion of the problem, and the event  
15 there are constraints that are different then Hydro  
16 asserts they are, then I think it serves to -- in the  
17 same way we set out in our Appendix, raise concerns as to  
18 whether Hydro's summary of the problem is correct.

19 But I don't think whether there are -- on-  
20 peak and off-peak energy have massive differentials or  
21 small differentials, or whether T-lines are the  
22 constraint or generation is the constraint. Either of  
23 those somehow leads you to the type of solution proposed.

24 MR. BYRON WILLIAMS: And again, without  
25 inviting you to tee-off too much on Hydro, would your

1 preparation for this Hearing have been aided by greater  
2 information, in terms of the historical application of  
3 the Service Extension Policy or some additional  
4 consideration of how the Service Extension Policy might  
5 be used to address issues of impacts on system planning?

6 MR. PATRICK BOWMAN: On -- on the matter  
7 of the System Extension Policy -- without getting into  
8 any details regarding either individual customers or  
9 questions of jurisdiction that I -- I recognize there are  
10 debates over -- in effect, when we look at the options  
11 that are available within the regulatory construct,  
12 without having to jump to doing something unduly  
13 discriminatory, solutions that are linked to the way one  
14 treats new loads in respect of system extensions  
15 obviously are relevant.

16 BC Hydro's Tariff Supplement 6 is  
17 effectively a System Extension Policy type of mechanism  
18 approved by the BCUC.

19 So if one major suite of options -- and in  
20 fact, the only major suite of options that has, as far as  
21 we can tell, a serious precedent among utility boards,  
22 revolves around the topic of system extension policies, I  
23 would say the record in this proceeding is -- is a -- is  
24 a little thin to be able to understand how that could  
25 work in Manitoba.

1                   MR. BYRON WILLIAMS:    I'm going to --  
2 we're not going to come right to this reference yet, but  
3 for -- just to move things along, Mr. Bowman, it -- and  
4 for the Board members as well, if you want to flip to  
5 page 29 of your evidence filed November 17th, 2008,  
6 please.

7

8   (BRIEF PAUSE)

9

10                   MR. BYRON WILLIAMS:    Do you have that,  
11 sir?

12                   MR. PATRICK BOWMAN:    Pardon me.  Yes, I  
13 have it.

14                   MR. BYRON WILLIAMS:    And again, I'm not  
15 drawing your attention to any reference on this page as  
16 of yet.

17                   You -- you heard my -- while I was  
18 ignoring you yesterday, I was -- I was talking a little  
19 bit with Mr. Ostergaard about what in British Columbia is  
20 considered to be their competitive advantage in terms of  
21 hydroelectricity as compared to other jurisdictions, sir?

22                   MR. PATRICK BOWMAN:    I -- I heard the  
23 discussion.

24                   MR. BYRON WILLIAMS:    And although we --  
25 we may have been using the phrase for different purposes,

1 we spoke of a BC advantage.

2 Do you recall that, sir?

3 MR. PATRICK BOWMAN: Yes.

4 MR. BYRON WILLIAMS: When you review the  
5 -- or based upon your knowledge of the hydroelectric  
6 policy in Manitoba, let's say up until this decade, would  
7 you -- do you see some similarities, in the sense that we  
8 may also have -- conceive of it as a -- it's historically  
9 been conceived of as a Manitoba advantage, sir?

10 Do you need more precision?

11 MR. PATRICK BOWMAN: If you can put the  
12 question again, maybe.

13 MR. BYRON WILLIAMS: Let me put it this  
14 way. If you look at the historic approach to  
15 hydroelectricity in Manitoba, would you agree with me  
16 that at the industrial level, the focus in Manitoba has  
17 been upon using its bountiful hydroelectric resources as  
18 a tool to maintain and promote economic development?

19 Would that be fair?

20 MR. PATRICK BOWMAN: Well, you've got two  
21 (2) concepts mixed in there. So if you'll allow me, I'll  
22 try to touch on both. One is in regards to economic  
23 development, and one is in regards to the phrase you  
24 used, "Manitoba advantage."

25 Mr. Ostergaard reviewed yesterday how the

1 concept of BC advantage is a suite of things, including  
2 their ability to go skiing at Whistler, that we don't  
3 always share.

4 MR. ROBERT MAYER: Hopefully, not  
5 yesterday.

6 MR. PATRICK BOWMAN: Yeah. Manitoba  
7 advantage has been a concept, though, used in terms of  
8 thinking about attracting industrials here, again, for a  
9 suite of -- of characteristics of Manitoba that were --  
10 were combined -- made the province attractive, one of  
11 which was electricity rates.

12 There -- there were a number of others,  
13 and -- and as I recall, there were even agencies set up  
14 to try to do this type of thing.

15 The distinction on the -- on the  
16 industrial side between Manitoba and BC is, to the best  
17 of my knowledge, Manitoba hasn't had an industrial  
18 development approach similar to some of those Mr.  
19 Ostergaard reviewed in BC when they brought on Revelstoke  
20 and had surplus power that they were effectively dumping  
21 to market and had below cost rates available to  
22 industrials to try to develop.

23 I -- I don't recall situations, and  
24 certainly not since this -- you know, Manitoba Hydro was  
25 regulated, where there were some form of -- of below-cost

1 rates offered to industrial as part of developing the  
2 province. The rates have always been at -- effectively  
3 at cost or -- or above cost, as mentioned by a Cost of  
4 Service Study.

5                   That's somewhat different than the topic  
6 of economic development, as you discussed yesterday,  
7 which, in BC, they look to BC Hydro as an agent of  
8 economic development to the province, in part because of  
9 its construction activities, and -- and bringing on pla -  
10 - aligning new plants, and that -- that type of thing.

11                   And -- and I think there's a different set  
12 of considerations in Manitoba that go to the economic  
13 development benefits that Manitoba Hydro has brought  
14 similarly during the Limestone construction or the like.

15                   They're -- they're a little bit distinct.  
16 And in that regard, Manitoba's a little bit different  
17 than BC. So I don't know if that answers your question,  
18 but...

19

20 CONTINUED BY MR. BYRON WILLIAMS:

21                   MR. BYRON WILLIAMS: You probably  
22 answered it better than I asked it, Mr. Bowman, so I'll  
23 take -- I'll thank you for that.

24                   I want to focus you on -- on the language  
25 that you -- you used in page 29 of your evidence at lines



1 31 to 34.

2                   And first of all, Mr. Bowman, you state,  
3 do you not, that MIPUG has traditionally been supportive  
4 of Hydro's pursuit of serving exports through advancing  
5 generation as a second priority to domestic service, but  
6 Hydro's current application serves to warp this premise  
7 and to alter in a significant way Hydro's obligation to  
8 serve, through actively discouraging or penalizing  
9 certain domestic industrial load growth based on a  
10 presumed priority for exports.

11                   You state that, sir?

12                   MR. PATRICK BOWMAN: That -- that's  
13 what's said there, yes.

14                   MR. BYRON WILLIAMS: And you use language  
15 such as "warp this premise."

16                   Is that right, sir?

17                   MR. PATRICK BOWMAN: Yes.

18                   MR. BYRON WILLIAMS: I wonder if you can  
19 help me just understand.

20                   In terms of the premise, just elaborate a  
21 little bit on the premise that you're referring to, sir.

22                   MR. PATRICK BOWMAN: Well, the premise,  
23 as it was reviewed in the 1990 capital hearing -- which  
24 MIPUG participated in before this Board, and -- and  
25 ultimately led to the group supporting Hydro's capital

1 plan at the time, which included a number of  
2 developments, in -- including, at that time, Wuskwatim --  
3 or I'm sorry, Conawapa; and -- and it has continued, it's  
4 effectively the same that was discussed in the Wuskwatim  
5 hearing -- is that in Manitoba, unlike what you see  
6 occurring in BC, the intent has been to use domestic  
7 resources -- our -- our local hydro, primarily -- to  
8 supply all of Manitoba's needs.

9           When the hydro can't supply Manitoba's  
10 needs, we bring on the next plant, and that allows us to  
11 sort of keep up with the load growth.

12           The second tier to that premise is once  
13 you draw the graph of what it takes in terms of which  
14 plants come on, can we take the opportunity to take one  
15 of those plants and advance its in-service state, so that  
16 for some number of years, it is -- it may not actually be  
17 serving domestic loads; it may be primarily serving  
18 exports or entirely serving exports.

19           And that initial period gives us the  
20 opportunity to build the plant sooner; build it in  
21 today's dollars, rather than the future dollars that  
22 would have otherwise been needed; and use the exports to,  
23 in colloquial terms, help pay down the mortgage before  
24 it's needed for domestic service.

25           That has been the way that Hydro talked

1 about their system planning in 1990, and it's the way  
2 they've talked about it in -- in 2000 and -- and  
3 2002/2003, when the Wuskwatim discussions were going on.

4           It all stems though from that logical  
5 sequence, that we -- we have a domestic load, we -- we  
6 serve the domestic load at regulated rates that gives  
7 everyone equal access to kilowatt hours, we build plants  
8 in order to help keep up with that domestic load, we do  
9 exports as -- as possible when we have above-average  
10 water, and in cases -- in some cases, we advance plants  
11 in order to do additional exports from the plants before  
12 they're needed for domestic service.

13           The -- the warping, as I use the word  
14 here, or I think I may have used the phrase earlier today  
15 of "turning on its head," is taking the justification  
16 that arises at sort of bullet 4 or 5 there, to revise how  
17 you do the -- the higher priorities of -- of one (1) or  
18 two (2).

19           It's a little like the -- another part in  
20 this evidence we review the -- the -- summarize the order  
21 in council, as Hydro has -- has put it to the NEB in  
22 regards to its approval to export power and says that the  
23 Manitoba Government gives Manitoba Hydro the op -- the  
24 approval to export power that is surplus to Manitoba's  
25 needs. You -- in warping the premise, one can

1 effectively redefine the concept of surplus by creating a  
2 surplus, by effectively making the domestic loads bid  
3 against the exports for the power, which is a shorthand  
4 way of describing one (1) way that this rate has been  
5 looked at.

6                   And in the event they're not willing to  
7 pay what the Americans are, we'll -- we'll sell it there.

8                   MR. BYRON WILLIAMS:    Just moving on with  
9 that thought, maybe perhaps you can turn to page 31 of  
10 your evidence for a second.

11                   And I won't be much longer in this, Mr.  
12 Bowman, but I want to make sure that my clients  
13 understand what you're saying. Lines 4 to 7 or 8, you  
14 speak of the effect of implementing Hydro's proposal  
15 would be to sever -- and I'm going to shorthand here,  
16 okay, sir -- some of the load of approximately three (3)  
17 to as high as five (5) individual customers from the rest  
18 of Hydro's regulated system.

19                   And is that correct, sir?

20                   MR. PATRICK BOWMAN:    It's a fair summary  
21 of that sentence.

22                   MR. BYRON WILLIAMS:    And rather than ask  
23 you to respond that -- to that right now, I'm going to  
24 just direct your attention to page 32 at the bottom,  
25 please, sir. Lines 38 to 43.

1                   What you're saying here, starting at line  
2 38, is that Manitoba Hydro's proposal -- excuse me, line  
3 38 of page 32, if someone is struggling to find it:

4                   "Manitoba -- Manitoba Hydro's proposal  
5                   in effect results in customers served  
6                   under the proposed new rates, being  
7                   indifferent or potentially materially  
8                   effective by new system developments  
9                   that are otherwise intended to benefit  
10                  Manitobans."

11                  Is that correct, sir?

12                  MR. PATRICK BOWMAN:   That's what it says  
13 there, yes.

14                  MR. BYRON WILLIAMS:   Am I correct in  
15 saying that you're essentially arguing, and I'm not  
16 saying my client's endorse this, but that the effects of  
17 this proposal will be to create a -- two (2) tiers of  
18 customers within Manitoba; those benefiting from higher  
19 export revenues in terms of receiving a system  
20 contribution from -- from net export revenues that help  
21 to pay down the mortgage; and those who -- who may see  
22 themselves as indifferent to, or perhaps even adversely  
23 affected by a -- a greater focus on exports.

24                  Is that correct, sir?

25                  MR. PATRICK BOWMAN:   It's one (1) way of

1 summarizing what's said there. I think one of the  
2 concepts that's been talked about in this room,  
3 particularly in the Cost of Service Hearing, it was more  
4 the -- discussed as the concept of sort of vintaging,  
5 that what -- what it creates -- two (2) tiers of -- of  
6 load is -- is not a bad description; it's probably a  
7 description Hydro has used sometime -- that are served  
8 under different premise, that in essence reflects a  
9 vintaging of the supply that customers like myself who  
10 have a residential load would be served from the -- the  
11 pool of the heritage assets that exist.

12 A certain subset of loads though, would be  
13 served from only the -- the newest stuff being developed  
14 at -- linked to the -- the market rates; that -- you  
15 know, it -- it's the extension of the premise that was  
16 discussed, and I would say at least in effect to a cost  
17 of service, effectively rejected by this Board in -- in  
18 the Cost of Service Study, there's -- there was no basis  
19 for -- I know -- I've been in Manitoba since 1970s, but  
20 there's no basis to say that I have some entitlement to  
21 Long Spruce power while IKEA should get stuck with  
22 Wuskwatim. It just doesn't work that way.

23 MR. BYRON WILLIAMS: And just to -- just  
24 to finish on this point, and just to follow-up on a  
25 couple of questions that Mr. Landry, I believe, was

1 asking the Hydro panel.

2                   Just, assuming for a moment that we -- we  
3 move towards what some might describe as a -- this two  
4 (2) tier system, presumably in -- in the event that we  
5 did, you would argue that -- that customers who have --  
6 who are -- are seeing a significant portion of their load  
7 severed or disconnected from the rest of the regulatory  
8 system, presumably, you would argue, that they should be  
9 relieved of any corresponding obligation to contribute to  
10 corporate revenues at a time where they were insufficient  
11 to meet their em -- embedded cost obligations.

12                   Is that the ultimate logic of this  
13 severing of the -- of a certain portion of load, sir?

14                   MR. PATRICK BOWMAN: Well, you're --  
15 you're asking questions that go to saying, If this  
16 proposal's accepted, and it's really going to be all --  
17 something that's going to be in place for the long term.  
18 We're not just talking five (5) years here. This is a  
19 new rate. It'll be a permanent offering.

20                   How does it work in the future, and what  
21 about these different type of events? What happens when  
22 we hit a drought? Will they have to pay more? What  
23 happens when -- when we bring on our new plant? What  
24 happens when, you know, something happens to the export  
25 markets?

1                   And I -- I can't say -- I can't say I've  
2 thought through all of the implications. I'm not sure  
3 that anyone has, frankly, but the premise, if you just  
4 take the words as they're written, would be these  
5 customers are like export customers. Our export  
6 customers don't share in seeing higher rates because we  
7 had a drought. Our export customers pay what the -- what  
8 the contract says, or what the -- what the market will  
9 bear, and it doesn't mean the market changes just because  
10 Manitoba Hydro has a drought.

11                   So I -- I guess the idea would be the next  
12 time we have a hearing that needs a higher rate increase  
13 because the reserves are down since we've had -- had a  
14 drought, somehow this customer will be a different set  
15 sitting on the -- the sidelines. I -- I don't know.  
16 It's -- but it's -- it's a fun -- it's a fundamental  
17 change to think about two (2) sets of customers that are  
18 -- have entirely different interests and -- and impacts  
19 arising from the system.

20                   MR. BYRON WILLIAMS: Thank you, Mr.  
21 Bowman. Food for thought.

22                   Mr. Chairman, I -- I have some more  
23 questions and I think I can get us to break but not  
24 beyond, so -- so we're -- we're behind schedule, but if  
25 you'll bear with me.



1                   Mr. Bowman, again you -- you talked about  
2 this Application, in the context of efficiency,  
3 yesterday, and -- and without elaborating, you stated in  
4 words to the effect that this proposal -- or the rates  
5 are not really designed to achieve efficiency.

6                   Does that sound familiar, sir?

7                   MR. PATRICK BOWMAN:   Well, I -- I think I  
8 said something to that effect.

9                   MR. BYRON WILLIAMS:   Okay.  And later I  
10 think you -- you went farther and said not only are they  
11 not designed to achieve efficiency, they -- and again  
12 words to the effect of, it fails to achieve efficiency.

13                   Would that be fair?

14                   MR. PATRICK BOWMAN:   I -- I think I may  
15 have said that today.  I -- I probably used the phrase  
16 that it's -- the -- the fundamental premise of this rate  
17 is in a sense at odds with the type of thinking and rates  
18 that would be used to achieve efficiency.

19                   MR. BYRON WILLIAMS:   And I just want to  
20 make sure I have your point from yesterday.  The point --  
21 you -- you spoke of tweaking, and -- and I'll come to  
22 that in a -- in a second -- but the point you seem to be  
23 making is that given that this rate -- this Application  
24 is not really focussed on efficiency, and notwithstanding  
25 what may -- what may be and probably are very legitimate

1 eff -- efficiency objectives, in the context of this  
2 Application you would not recommend trying to tweak it --  
3 this proposal -- a proposal that's not really designed  
4 for efficiency into one (1) -- in -- into trying to tweak  
5 it into trying to achieve some long term efficiency  
6 objectives.

7 Do I have your point, sir?

8 MR. PATRICK BOWMAN: Yes. We've had a  
9 fair bit of discussion about that with our team, and  
10 there's -- you've started off on a different path  
11 intended for an entirely different purpose. It -- it's a  
12 long list of items why this proposal is entirely  
13 different then the types of thinking people use when  
14 they're trying to design rates to encourage efficiency,  
15 and it's -- to try to shoehorn it in is -- is creating  
16 something that -- that doesn't really fit.

17 I entirely agree with your point though,  
18 that this is -- trying to design rates that -- that  
19 achieve efficient use of power is -- is a very important  
20 and high priority type of regulatory objective, but this  
21 isn't it.

22 MR. BYRON WILLIAMS: Perhaps if we could  
23 turn to page 10 of your evidence. And I'm going to be  
24 making a very brief reference to an excerpt from Board  
25 Order 117/'06. I think I distributed it around the room.

1 I don't know if the Board has copies. Mr. -- Mr.  
2 Chairman, I see your head nodding, so I'm assuming you  
3 do.

4 And I don't believe that that needs to be  
5 made an exhibit. I -- I just passed it out for -- so --  
6 to assist parties. And there was some copies distributed  
7 on the desk, Mr...

8 MR. ROBERT MAYER: Mr. Williams, I think  
9 you can assume that we will assume that you can read.

10

11 CONTINUED BY MR. BYRON WILLIAMS:

12 MR. BYRON WILLIAMS: Some people like to  
13 read around -- Mr. Vice Chair, read along, but I -- I  
14 appreciate the confidence that you've demonstrated.

15 Mr. Bowman, just on -- on page 10 you make  
16 some reference to Board Order 117/'06, and you -- you  
17 note that the matters related to this application were  
18 initially addressed in -- in the public hearing that lead  
19 up to that Board Order.

20 Is that right, sir?

21 MR. PATRICK BOWMAN: Yes.

22 MR. BYRON WILLIAMS: And you highlight  
23 three (3) points, without reading from that -- that Board  
24 Order, first of all the suggestion -- the directive from  
25 the Board to Hydro to consult broadly in the context of

1 that order. Is that right, sir?

2 That's one of the points you made?

3 MR. PATRICK BOWMAN: To consult broadly  
4 with government and industry, yes.

5 MR. BYRON WILLIAMS: Secondly, and --  
6 direction from the Board to Hydro to develop this  
7 proposal, taking into account that existing industries  
8 came, remain, and expanded in Manitoba with certain  
9 assumptions as to energy and price -- energy, prices and  
10 supply, and therefore, distinction between new and  
11 existing industries as reasonable.

12 Is that right, sir?

13 MR. PATRICK BOWMAN: That's what the  
14 Board Order says, yes.

15 MR. BYRON WILLIAMS: And I won't go into  
16 the -- the third -- the third point at this time.

17 On that second point, Mr. Bowman, the  
18 distinction between new and existing industry, obviously  
19 the Board considered that a reasonable premise.

20 Do you?

21

22 (BRIEF PAUSE)

23

24 MR. PATRICK BOWMAN: Well, Mr. Williams,  
25 Mr. Chair, this is a -- this is a very difficult point

1 that -- that goes to the core of some of the challenges  
2 we're -- we're dealing with today.

3           At a certain level, the thought that there  
4 are industries here today that came in under a certain  
5 regulatory regime and should not have the rules changed  
6 on them is -- is not only appealing as a thought; it --  
7 it may even be more than that. I'm told that it -- that  
8 it may be part of -- of effectively, the compact under  
9 which they -- they came and developed.

10           The idea of making a distinction with new  
11 industries compared to existing is -- I -- I understand  
12 the intuitive appeal. And I think at a certain level  
13 it's a type of response that -- that people could do in  
14 order to try to ensure that -- that existing loads are  
15 treated fairly.

16           But it's -- it's effectively the starting  
17 point for addressing some of the significant challenge  
18 that we have before us today. I obviously have to make  
19 the comment that of course the members that we are  
20 dealing with are all existing industries. Some of them  
21 are expanding, but they're all existing industries.

22           There is very little voice in the room, if  
23 any, from who could be the new industries that no one  
24 knows about yet. And it's one of the reasons why  
25 negotiating something like this is -- may -- may be a

1 trick, in terms of making sure the appropriate potential  
2 future impacts are -- are represented.

3           But the concept that there will be a  
4 permanent distinction between the -- the old loads and  
5 the new loads brings you back, I think as one works  
6 through the issues, to the -- the very difficult  
7 challenge, the very difficult decisions, to say we're  
8 prepared to sever two (2) loads and two (2) groups of  
9 customers and say with respect to these some existing  
10 loads, they've somehow acquired rights to be serviced on  
11 a priority level from low-cost assets.

12           The example I gave earlier of my -- my  
13 house and Long Spruce, whereas some new loads, for a  
14 bunch of reasons that -- that people write down, we want  
15 to treat in -- in some new way and -- and consider them  
16 to not have any rights to those existing assets or to the  
17 -- the power from those existing assets, even though come  
18 2012, my kilowatt hour drives the need for Wuskwatim just  
19 as much as anybody else's kilowatt hour.

20           It's a -- I guess my -- my basic point is  
21 the intuitive -- it's one of those types of points that  
22 intuitively appealing, but on -- on careful scrutiny, I  
23 think it lead down a pretty dangerous road.

24           MR. BYRON WILLIAMS: I just want to  
25 follow that point along for a second further, M. Bowman.

1 Now, the language that the Board used, you'll -- you'll  
2 agree with me, was "new industry" and "existing  
3 industry."

4 Is that fair?

5 MR. PATRICK BOWMAN: Yes.

6 MR. BYRON WILLIAMS: And the language I  
7 just heard you give in the -- the latter part of your  
8 answer was "new load" and "old load."

9 Is that right?

10 You were referencing new load and old  
11 load?

12 MR. PATRICK BOWMAN: I may have used  
13 those terms.

14 MR. BYRON WILLIAMS: And just for  
15 definitional purposes, do you use the words "new  
16 industry" and "old industry" interchangeably with "new  
17 load" and "old load"?

18 MR. PATRICK BOWMAN: I -- I probably was.  
19 I think at the level of discussion, of course, Hydro's  
20 proposal doesn't even treat all new loads the same way,  
21 certain amounts are caught by growth allowances, and --  
22 and you get into a lot of detail.

23 I was trying to focus it at a principles  
24 level that would say somehow we are trying to develop a  
25 thinking process that severs something we call old load

1 from new load, and that's -- or, you know, old industry  
2 from -- from new industry, perhaps. And that's the -- at  
3 the principle level, without getting into the detail of  
4 growth allowances or the like.

5 MR. BYRON WILLIAMS: And I just want to  
6 follow this one -- one step further, M. Bowman.

7 It's conceivable that old industry,  
8 existing industry, could be bringing new load to the  
9 system; in fact, it's likely?

10 MR. PATRICK BOWMAN: Well, putting on my  
11 economist hat, Mr. Williams, every customer brings new  
12 load to the system. The -- these lights bring new load  
13 to the system. Just because they were on an hour ago  
14 doesn't mean they have to be on the next hour. Every  
15 kilowatt hour is a new kilowatt hour. That -- that's the  
16 economist level.

17 Now that's, of course, different than the  
18 premise for investment and all of those other things we  
19 talked about, but all load is new load.

20 MR. BYRON WILLIAMS: And -- and just so I  
21 make sure I have your point, you draw no distinction  
22 then, for analytical purposes, between an existing  
23 industry that may have come here under, I believe your  
24 language is, some sort of regulatory compact, and which  
25 is planning to expand, versus a new industry bringing --



1 coming to -- to Manitoba cognisant of a change in -- in  
2 regulatory policy?

3 MR. PATRICK BOWMAN: No, I -- I think --  
4 I don't think that's correct. I think we draw a very key  
5 distinction between the two (2). The -- there are  
6 different sets of issues thinking about existing industry  
7 than there are thinking about new industry.

8 And the -- had the proposal been to change  
9 the rules for all industry, we would have had an entirely  
10 different set of different considerations than if it was  
11 only the case for people expanding.

12 They're -- they're entirely different ways  
13 of thinking. They have different premise for investment.  
14 They have different histories. They have different legal  
15 protections. They have a number of other things that go  
16 to existing industry that may not be there for a new  
17 industry.

18 But the -- it doesn't mean that it gets  
19 you to having to treat them differently. You may end up  
20 at the conclusion that they're treated the same.

21 MR. BYRON WILLIAMS: Analytically, you  
22 could see the -- the potential for distinction between  
23 existing industry that -- that came here under a  
24 regulatory compact and new industry, no prior history to  
25 the -- to the province, coming here with the

1 understanding that a new set of rules had been -- been  
2 created?

3 MR. PATRICK BOWMAN: If one is strictly  
4 sticking to the "every kilowatt hour is a new kilowatt  
5 hour" box, it doesn't get you to a set of definitions  
6 that's -- some level is called existing and some level is  
7 called new. So in that box, there's -- analytically, if  
8 you want to use the term, there's no distinction. But  
9 there's a number of other boxes that people are trying to  
10 keep their minds on here.

11 MR. BYRON WILLIAMS: Which box are you  
12 in, Mr. Bowman? That's what I'm trying to get my head  
13 around.

14 MR. PATRICK BOWMAN: Well, Mr. Williams,  
15 I set out at the beginning, we're trying to keep our eye  
16 on a number of them. And I have rarely seen a hearing  
17 that has as many different facets that one had to try to  
18 pay attention to.

19 Yes, there's a system planning issue,  
20 which we deal with in Section 5 of our evidence, in which  
21 it's strictly about kilowatt hours, and every kilowatt  
22 hour is a new kilowatt hour.

23 But there's separately a -- a regulatory  
24 premise issue for how you deal with industrial loads  
25 that's in Section 6 of our evidence that does have

1 expectations, basis for investment, contracts,  
2 international law, and a number of other considerations  
3 that I don't go into, because I'm not an expert on.

4 But I understand colour, the ability to do  
5 certain things to existing customers that may not quite  
6 be the same for new customers.

7 MR. BYRON WILLIAMS: So if we get out of  
8 the -- the box captured in Part 5 of your evidence and --  
9 and move to the box captured in Part 6 of your evidence,  
10 you can conceive working out of that box of a conceptual  
11 difference between existing industry and new industry?

12 MR. PATRICK BOWMAN: Yes, that's fair.  
13 Also, if we talk about considerations such as a Tariff  
14 Supplement Number 6 type of approach, it only applies to  
15 new loads. It's about making sure the system can  
16 reliably serve the loads. The system we have today can  
17 reliably serve the loads today. It only goes to  
18 incremental changes.

19 So there's a number of places where you  
20 need to pay attention to the difference between new and  
21 existing.

22 MR. BYRON WILLIAMS: Mr. Bowman, just  
23 drawing your attention to Board Order 117/'06, page 54,  
24 and the second paragraph thereof. I'll give you just a -  
25 - a second to look at that paragraph, sir.

1                   MR. PATRICK BOWMAN:    I'm sorry, which  
2 paragraph?

3                   MR. BYRON WILLIAMS:   Page 54, the -- the  
4 second paragraph before the colon.

5  
6                                   (BRIEF PAUSE)

7  
8                   MR. PATRICK BOWMAN:    I -- I've read it.

9                   MR. BYRON WILLIAMS:    Mr. Bowman, just  
10 when we look at the genesis of -- of this proceeding,  
11 would it be fair to say when the -- when the Board was --  
12 at least would it -- would you agree that a reasonable  
13 interpretation of -- of what the Board was saying, in --  
14 in terms of -- of this issue, was that it was focussed on  
15 the -- the potential risk of new large, energy-intensive  
16 firms on other customers as related to rates?

17                                   Would that be a fair statement of at least  
18 this early stage of the Board's -- Board's analysis, sir?

19                   MR. PATRICK BOWMAN:    Well, actually, I  
20 read the paragraph a little bit differently, and I think  
21 the paragraph reflects the context of the day.

22                                   We'd have to remember this hearing was not  
23 long after we had just been through the drought hearing,  
24 and the phraseology isn't the impact on rates; it's -- it  
25 -- well, it uses the words "rates," but the point is it -

1 - it imposes risks on Manitoba Hydro's other customers,  
2 mainly related to rates, it says.

3           But the point is that large new loads  
4 could impose risks on Manitoba Hydro's other customers,  
5 and I think that sentence alone merits some thought. I  
6 think looking at the Power Resource Plan that was handed  
7 out yesterday, there is a lot of information around that  
8 suggests some need to think about Hydro's risk and what  
9 activities and what loads and what developments are  
10 causing risks that could be potential impacts on rates.

11           That Power Resource Plan shows that, as a  
12 result of the export contracts that are being signed in -  
13 - leading up to the years after 2020, Hydro's drought  
14 year scenario relies on imports for 15 percent of -- of  
15 annual supply -- annual committed supply. That's --  
16 that's much higher than it has been in the past power  
17 resource supplies. It's tended to be around ten (10).

18           It's not the domestic loads that are  
19 causing that. It's the offsetting import guarantees  
20 built into the export contracts.

21           So if it's framed in a context of risks,  
22 which -- I can entirely understand where people's minds  
23 are at, having just been through a drought. Risk is an  
24 entirely different consideration, so...

25           MR. BYRON WILLIAMS: Thank you.

1                   Mr. Ostergaard, I'm -- I was afraid you  
2 were feeling neglected, so you -- you've heard some of my  
3 discussion with Mr. Bowman. We -- we've talked about  
4 certainly distinct issues related to efficiency, and  
5 we've also talked about distinct issues related to  
6 impacts on system planning.

7                   Do -- do you -- is that a fair summary,  
8 sir?

9                   MR. PETER OSTERGAARD:    Yes.

10                  MR. BYRON WILLIAMS:   And just -- and this  
11 will be quick, but just so that I have -- my -- the BC  
12 scenario well in mind, when I -- when I look -- in terms  
13 of large customers and the -- the BC approach to  
14 efficiency issues, much of that is captured in the -- the  
15 stepped rate approach.

16                  Was that fair?

17                  MR. PETER OSTERGAARD:   Yes, for  
18 industrial customers, and more recently, residential  
19 customers.

20                  MR. BYRON WILLIAMS:    And again, we don't  
21 -- it -- it's on the record of this Hearing.

22                  In terms of the stepped rates approach,  
23 without getting into the merits of their positions, would  
24 it be fair to say that in British Columbia there has been  
25 some concern expressed by residential consumers that the

1 actual application of the stepped rates -- rates approach  
2 has resulted in an under-recovery from -- from large  
3 customers?

4 Without getting into the merits of whether  
5 that's true or not, would that be fair?

6 MR. PETER OSTERGAARD: Yes. In general  
7 the -- the views of the two (2) main customer groups in  
8 British Columbia are as follows.

9 The -- in terms -- at least in terms of my  
10 understanding of -- of their views, the industrial  
11 customers feel that stepped rates are working. They are  
12 sending price signals to industry that has resulted in  
13 significant DSM savings that otherwise would not have  
14 occurred.

15 And for residential customers, there are  
16 concerns that consistent under-recovery within that  
17 industrial customer class is leading to -- or may lead  
18 to, in future, rate shifting depending on regulatory  
19 accounting treatment, i.e., does BC Hydro reduce its net  
20 income accordingly, or does it attempt to recover those -  
21 - those under-recovered amounts from other customer  
22 groups?

23 MR. BYRON WILLIAMS: Okay, and I thank  
24 you for that fair summary.

25 In -- in terms of the impact, or potential

1 -- or impact of large new industrial load on the other  
2 aspect of the -- the issue -- the -- the system planning  
3 issue, I believe as Mr. Bowman phrased it -- I'm correct  
4 in suggesting to you that a major element of the reg --  
5 regulatory response has been Tariff Number 6.

6                   Would that be fair, sir?

7                   MR. PETER OSTERGAARD: That's correct.  
8 Tariff Number 6 attempts to recapture some of the  
9 incremental generation and transmission costs for vary  
10 large load additions to the system.

11                   MR. BYRON WILLIAMS: And Mr. Ostergaard,  
12 in your direct evidence yesterday, I didn't catch the  
13 exact phrasing, but I believe you refer to whether it's  
14 some challenges or some criticism of -- of Tariff Number  
15 6 in terms of -- and I wonder if you could elaborate on  
16 that at -- at a high level, sir.

17                   MR. PETER OSTERGAARD: Perhaps I can use  
18 the example of new mining loads in Northwestern British  
19 Columbia.

20                   There are three (3) or four (4), possibly  
21 more, mines that are, in their view, very, very feasible  
22 and, once prices stabilize, ready to be developed. It's  
23 a question of who goes first.

24                   And Tariff Supplement Number 6 is silent  
25 with respect to how to treat aggregated new loads once



1 together they hit that 150 MVA threshold.

2                   In this particular example, the -- the  
3 solution was one whereby the government effectively  
4 overrode the provisions of Tariff Supplement Number 6 and  
5 negotiated a arrangement with the first -- likely the  
6 first new mine, Nova Gold, whereby Nova Gold would  
7 contribute its avoided cost of \$158 million to connect to  
8 the system, and BCTC, through its existing ratepayers,  
9 would pick up the rest of the cost of a much larger line  
10 to serve more than just the Nova Gold mine.

11                   MR. BYRON WILLIAMS: So -- so the  
12 challenges in that context were a view that -- that  
13 because of the par -- particular, I don't know if the  
14 word is vagaries, V-A-G-A-R-I-E-S; I'm not even sure if  
15 I'm pronouncing it correctly -- of Tar -- Tariff Number  
16 6, it was an impediment to -- to what might otherwise be  
17 seen as valuable industrial development?

18                   MR. PETER OSTERGAARD: I think impediment  
19 is too strong a word. Until the parties that were  
20 involved in trying to develop a transmission  
21 infrastructure that all parties knew would ultimately be  
22 the better solution than two (2) or three (3) low cost,  
23 low kilovolt lines plugged into the larger transmission  
24 system, that in the knowledge that there would be an  
25 ultimate solution, where you would have a strong backbone

1 of a transmission system there that Tariff Supplement  
2 Number 6 would perhaps discourage, then you went to the  
3 larger solution of -- of a better planned solution,  
4 whereby a large line was built under a different formula.

5 MR. BYRON WILLIAMS: Mr. Ostergaard, in  
6 terms of Tariff Number 6, are -- are you aware of any  
7 criticism from perhaps a different perspective suggesting  
8 that it was -- the consequence of it was that it was  
9 resulting in undue or subsidies to -- to new large  
10 industrial load.

11 Are you aware of any criticism of it from  
12 that perspective?

13 MR. PETER OSTERGAARD: I am not. I can  
14 cite the BCUC's decision with respect to Tariff  
15 Supplement Number 6 back in 1991, and I'll just quote a  
16 couple of sentences, if that's okay.

17 Counsel for -- and this is a -- this is a  
18 quote from the reasons for decision from the BCUC.  
19 Counsel for BC Hydro stated that, quote:

20 "An analysis of the document will  
21 reveal that it does not create  
22 significant new financial impacts when  
23 compared with the arrangements which  
24 are currently in place."

25 And later on, quote:

1 "BC Hydro does not anticipate that the  
2 documents will result in significant  
3 adverse impacts on BC Hydro's revenue  
4 requirements."

5 This provided some comfort to counsel for  
6 the Consumers Association of Canada, who remarked, quote:  
7 "Given Mr. Mosley's (phonetic) comments  
8 with respect to the anticipated impacts  
9 on Hydro's revenue requirements of this  
10 particular agreement, I have no  
11 objection to it being approved."

12 Close quote. Mr. Mosley is -- was BC  
13 Hydro's lawyer.

14 MR. BYRON WILLIAMS: Thank you.

15 Mr. Bowman, I want to turn to just a  
16 couple more elements of -- of your evidence. First of  
17 all, if you could turn to page 34, specifically, lines 9  
18 to 14.

19 MR. PATRICK BOWMAN: Mr. Williams, I have  
20 it. I -- I would just also add to Mr. Ostergaard's  
21 earlier comment.

22 The -- the record we have available on  
23 Tariff Supplement Number 6 suggests that the one known  
24 complaint that went to the BCUC was actually in the other  
25 direction. It was actually a potential industrial

1 customer concern that the provisions of Tariff Supplement  
2 6 were too onerous, not -- not too generous. So for --  
3 just for the record.

4 I have the page you asked for.

5 MR. BYRON WILLIAMS: Okay. And just --  
6 I'm going to -- I'll get to that quote on page number 6  
7 in a -- or page number 34 in a minute. And I'm going to  
8 ask you to just confirm your position without  
9 elaborating, if you would, on -- on two (2) points.

10 You've said elsewhere that the rate --  
11 your -- your position is that this rate comprise --  
12 compromises basic regulatory fairness principles, and  
13 there is no reasonable justification for its  
14 unprecedented and discriminatory approach. Fair enough?

15 MR. PATRICK BOWMAN: Yes.

16 MR. BYRON WILLIAMS: And you've used  
17 language such as "unduly discriminatory."

18 Is that fair?

19 MR. PATRICK BOWMAN: We've been cautious  
20 about using the phrase.

21 MR. BYRON WILLIAMS: Page 33 you used it,  
22 sir.

23 MR. PATRICK BOWMAN: We -- we -- I said  
24 it was -- it was used cautiously, because of course, the  
25 -- the determination as to duly versus unduly is a legal

1 test that will be ultimately applied by this Board in its  
2 decision.

3 We said that in -- in all normal respects  
4 where one would be looking at a rate, this would probably  
5 qual -- this would qualify as unduly, in our opinion.

6 MR. BYRON WILLIAMS: Just going to your  
7 evidence on -- on page -- page 34, lines 9 to 14, you --  
8 you -- and we've talked about this before. You've  
9 suggested that the normal regulatory approach to very  
10 large load increments is either to limit the obligation  
11 to serve large increments or ensure the incremental, one-  
12 time system upgrade costs required to serve these loads  
13 are paid for by the customers.

14 Is that fair, sir?

15

16 (BRIEF PAUSE)

17

18 MR. PATRICK BOWMAN: It's fair. As I'm  
19 reading that sentence again, I think I may be inclined to  
20 edit it slightly, and I -- I apologize for this.

21 We -- we were mixing two (2) concepts and  
22 -- that are -- that are both important, and I -- I think  
23 where they got mixed it -- it may be a bit confusing.

24 One -- one of the concepts is that there  
25 may be a practical limit on the obligation to serve that

1 needs to be thought about if you're talking about very,  
2 very large loads. You know, if -- if a customer came to  
3 Yukon, where I work, wanting to build a 650 megawatt  
4 aluminum smelter, they just couldn't do it. The system's  
5 only got about a hundred megawatts in total. So there --  
6 there may be a practical limit on obligation to serve.

7                   But the case -- and a -- and where it  
8 says, "limit the obligations to serve large increments,"  
9 we wrote, "e.g., 150 MVA in BC." The -- the example was  
10 an example of what one might think about as a -- a large  
11 load. It wasn't meant to say that BC limits the  
12 obligation to serve to that level. That -- and I  
13 apologize for that confusion.

14                   MR. BYRON WILLIAMS: Fair enough. Thank  
15 you for that clarification.

16                   Just focussing on lines 12 and 13, you  
17 talk about the normal regulatory approach being that  
18 incremental, one-time system upgrade cost required to  
19 serve these loads including potential generation or  
20 appear -- are paid for by the customer.

21                   You have an amend -- or edited slightly  
22 that part of your answer --

23                   MR. PATRICK BOWMAN: No, no.

24                   MR. BYRON WILLIAMS: -- sir --

25                   MR. PATRICK BOWMAN: No, that's not

1 edited.

2 MR. BYRON WILLIAMS: And at a theoretical  
3 level, InterGroup sees that this approach -- or you  
4 yourself -- excuse me -- see this approach as potentially  
5 being acceptable?

6 MR. PATRICK BOWMAN: Yes, as long as it's  
7 clear what we're talking about in the definitions. The  
8 idea -- when we say "one-time system upgrade costs" are  
9 what -- in a cost of service context we would talk about  
10 our capacity costs -- that it's transmission lines; it's  
11 generation install for capacity reasons, like -- like a -  
12 - if a -- you have a regional low-voltage stability issue  
13 or -- or concerns of reliability and you have to put in  
14 combustion turbines to back up the supply. Those type of  
15 costs, not generation, where you're talking about energy  
16 costs.

17 MR. BYRON WILLIAMS: That may -- may  
18 answer my -- Mr. Harper's question on this point, but  
19 I'll -- I'll ask it anyways.

20 When considering a capital contribution  
21 approach, would it be reasonable to consider the  
22 opportunity costs of exports as the marginal cost of  
23 generation?

24

25

(BRIEF PAUSE)

1                   MR. PATRICK BOWMAN:    The simple answer is  
2 in respect of the capital contribution.  No, but there's  
3 -- it doesn't necessarily stop at the simple answer for -  
4 - for one reason.  When we look at Tariff Supplement  
5 Number 6, which is the sort of reference we're making  
6 here, if your -- Hydro has noted this, that there's  
7 actually a formula in the Tariff Supplement.  And I think  
8 there's a copy of it in one of the Interrogatories.  I  
9 don't recall which one.

10                   It has a formula and it says it'll look at  
11 the revenues from the customer and look at the operating  
12 costs for the customer to -- operating costs for the  
13 assets you're talking about.  And in -- once -- once it  
14 does a bunch of math, it determines whether you need to  
15 make a customer contribution.

16                   For customers less than 150 MVA, we look  
17 to transmission -- or BC looks at transmission.  They  
18 look at the transmission costs of the assets.  Pardon me.  
19 And then they look at the O&M costs of that transmission.  And  
20 then they look at the customers' revenues, and they do a  
21 calculation.  Sometimes BC Hydro will put in some money,  
22 sometimes they'll put in all the money, and sometimes the  
23 customer has to pay for it all, depending on how the  
24 balance of those revenues and those costs, including O&M  
25 costs of the transmission, balance out.



1                   In the one case where Hydro did the  
2 calculation for a customer above 150 MVA, which was the  
3 Alberni Aluminum case that never was developed, Alberni  
4 Aluminum requested a quote from Hydro for the cost to  
5 connect. Hydro gave them a quote. I think it was \$1.27  
6 billion that they'd have to write a cheque for. And  
7 Alberni Aluminum filed the complaint with the BCUC and  
8 there was a small exchange and set of processes.

9                   And at the end of it, the BCUC issued a  
10 letter -- decision on the complaint -- that effectively  
11 says, you know, the -- the load -- the -- the customer is  
12 still prospective. The loads aren't exactly developed.  
13 The -- the assets aren't exactly developed, but BC Hydro  
14 applied the principles correctly.

15                   And -- and I say that in respect of Mr.  
16 Harper's question, because he -- he'll appreciate this  
17 distinction.

18                   When they did the math for the customer  
19 over 150 MVA, they added up the total capital costs  
20 required to be installed, which was transmission assets  
21 plus combustion turbines, and it came to 1.27 billion.

22                   And then they added up the total operating  
23 costs of that, and that included the present value of the  
24 fuel for the combustion turbines, which is what you would  
25 talk about as a -- as an opportunity cost or a -- an

1 incremental cost.

2                   That came to 4.2 billion, and the  
3 customers' rates did not fully compensate for the 4.2  
4 billion, the present value of the -- of running the  
5 turbines.

6                   So as a result, the formula came out to  
7 zero, BC Hydro's contribution, and the customer had to  
8 pay the one point two seven (1.27). That's what they  
9 would have had to pay. They were never made to pay the  
10 four point two (4.2). They weren't being asked to pay  
11 the -- the cost of the fuel as part of their one time  
12 cost, only for the assets.

13                   But you did consider the opportunity  
14 costs, or the O&M costs, or the oper -- the -- the  
15 phraseology Mr. Harper was -- was using, in determining  
16 whether that customer would pay all of the capital costs,  
17 or a portion of the capital costs, or something of that  
18 nature.

19                   MR. BYRON WILLIAMS: If you're looking  
20 for reference to my next question, you can turn to page 3  
21 of your evidence, lines 29 to 33. We're just about --  
22 we'll -- we'll probably go a bit further, Mr. Chairman,  
23 but not too long.

24                   M. Bowman, you might have revised this  
25 answer a little bit yesterday in your direct, but you --

1 you were -- in lines -- just one second.

2

3

(BRIEF PAUSE)

4

5 MR. BYRON WILLIAMS: You were talking  
6 about the revised approach to setting marginal cost  
7 rates, and your preliminary -- or your -- your writ --  
8 written evidence said it provides greater transparency.  
9 You -- you -- and without asking you to elaborate, you  
10 might have wanted to temper that adject -- adjective a  
11 little bit based upon -- upon your observations in this  
12 Hearing.

13

Fair enough?

14

15 MR. PATRICK BOWMAN: Well, I would say  
16 the approach proposed by Hydro in this Hearing is more  
17 transparent than the single number we got in the last  
18 hearing that we got no information behind.

19

20 It's still a long way from what you would  
21 call a transparent measure. It doesn't mean it's not  
22 possible to come up with something that's a more relevant  
23 transparent measure. There is some underlying data  
24 that's at least filed with regulators, like the NEB.

25

26 It's just what happens between that data  
27 and the way Hydro ultimately processes it to use it for  
28 this application and how many different steps and -- and

1 what those steps mean that has not achieved the level of  
2 transparency I -- I think is required.

3 MR. BYRON WILLIAMS: Would it be fair to  
4 say -- would -- you know, and -- and I understand your  
5 reservations about going down a -- a marginal cost route.

6 But would it be fair to say that when you  
7 analyse, from a principle basis, whether one particular  
8 application of -- of marginal costs is preferable, you  
9 consider at least three (3) criteria, namely  
10 transparency, can it be tested; secondly accurate, is it  
11 a reasonable approximation of -- of the -- the  
12 appropriate number; and third, is it a number -- is the  
13 number going to be stable or unstable, is it going to  
14 bounce all over the place?

15 Are those three (3) considerations, sir?

16 MR. PATRICK BOWMAN: There would be three  
17 (3) considerations. I think they're preceded by the  
18 consideration as the purpose to which you're using it  
19 for.

20 Mr. Ostergaard has talked about stepped  
21 rates in BC, which have a particular purpose that's  
22 designed to look to the long-term system plan, and to --  
23 as a result, uses a marginal cost estimate, if you like,  
24 based on the prices IPPs are bidding for new power that  
25 they're going to be committed to under a contract. It

1 gives us a -- a long -- transparent, long-term price.

2                   In Newfoundland, we've been involved in  
3 helping to design effectively a stepped rate there that  
4 has an entirely different purpose. It's designed to deal  
5 with burning oil at Holyrood generating station. And it,  
6 as a result, uses a short-term marginal cost, and it's  
7 designed to entirely consider the short term, because the  
8 purpose is to -- to look to the oil at marginal costs,  
9 so as -- or the oil as the marginal resources that  
10 customers would be affecting.

11                   So your pur -- determining your purpose  
12 you're using it for is key. It would also -- you said  
13 transparency; that would be important. You said it --  
14 accurate; it's hard to argue with accuracy. You said,  
15 stable; stable would be relevant in a number of contexts.

16                   It's not necessarily relevant when used in  
17 other ways. For example, the -- like we say, the BC  
18 stepped rate is revenue neutral; it -- as a result, the  
19 total customer bills are stable. It doesn't mean that  
20 the second block and the first block each independently  
21 have to be stable. May -- maybe that would be a rate  
22 design consideration, but -- but it may not be, if you're  
23 trying to make sure you pass through the price signal.

24                   So stability could be or may not be,  
25 depending on the use.

1 (BRIEF PAUSE)

2

3 MR. BYRON WILLIAMS: In the context where  
4 marginal cost rates may be affecting long-term firm  
5 planning, presumably stability is important?

6 MR. PATRICK BOWMAN: Sir?

7 MR. BYRON WILLIAMS: In the context of a  
8 rate like the EIIR, stability would be an important  
9 consideration as well?

10 MR. PATRICK BOWMAN: In Hydros EIIR  
11 proposal, it -- it merits a mechanism to ensure that the  
12 customers have rate stability, yes.

13 MR. BYRON WILLIAMS: And -- and I think I  
14 understand your position in terms of using forecast  
15 values as well as the current Hydro proposal. And I'd  
16 just appreciate, for the benefit of my clients, your  
17 thought on -- on using another proxy. For example,  
18 historic information but longer term information. For  
19 example, the five (5) year SEP used on cost appli --  
20 allocation.

21 And I wonder if you have any thoughts on -  
22 - on the benefits, pros/cons, of such a -- such approach  
23 in the context of this application?

24 MR. PATRICK BOWMAN: Well, I'm glad I  
25 gave the long answer before, because it saves me a bit

1 here. SEP is a measure of short-term type of -- of cost.  
2 It's not a long-term measure. Firm is intended to be the  
3 long-term measure. So depending on your purpose, SEP may  
4 serve the purposes, or it may not.

5 Forward looking is always better than  
6 backward looking, in the context of -- of an economist,  
7 but it doesn't mean it's -- it's easier. It may -- it  
8 may be harder. So backward looking SEP prices probably  
9 are a poor measure for what's intended to be a forward  
10 looking long-term firm type of -- of impact.

11 And I don't think going over a longer  
12 horizon necessarily solves the extent to which they're  
13 accurate. It may solve the extent to which they're  
14 stable, to some degree, but I don't think it solves to  
15 the extent to which they may be accurate of what you're  
16 trying measure.

17 MR. BYRON WILLIAMS: Mr. Chairman, with -  
18 - with the Board's deference I probably just have three  
19 (3) relatively small areas which I'd just like to finish  
20 up and then I'll -- I'll be out of your hair for the day,  
21 with your permission.

22 Mr. Bowman, you described the loss of the  
23 exemption criteria in your direct evidence yesterday as,  
24 bitter sweet.

25 Is that correct, sir?

1 MR. PATRICK BOWMAN: Yes.

2 MR. BYRON WILLIAMS: And I may not have  
3 got your point totally, but you seem to be saying that  
4 there was no provision to deal -- well, let me -- let me  
5 just go -- go to the point.

6 Within the context of an EIIR type of  
7 application, do you see some sort of role for exemption  
8 criteria, sir?

9

10 (BRIEF PAUSE)

11

12 MR. PATRICK BOWMAN: It's -- it's very  
13 hard to answer, because the context of an EIIR  
14 application is -- is, in a sense, irreconcilable with a  
15 regulatory framework in -- in our view. So an exemption  
16 criteria regulat -- regulated mechanism combined with an  
17 EIIR regulated mechanism is -- is just further afield  
18 from what a rate regulator would -- would normally be  
19 dealing with.

20 If you're having a limit on obligation to  
21 serve, like Quebec -- and they have their discussions and  
22 in their mind there's economic benefits; it may not be an  
23 exemption criteria, but something that's focussed on that  
24 -- that may be an appropriate consideration. But neither  
25 fits in the regulatory environment.



1                   MR. BYRON WILLIAMS:   Mr. Ostergaard, just  
2 one (1) question that I -- I couldn't leave, for the  
3 benefit of my clients. You talked about, in the context  
4 of BC Hydro, the use of revenues from trading of -- and  
5 how they're used within the BC Hydro system, from  
6 exports, sir?

7                   MR. PETER OSTERGAARD:   Yes, that was part  
8 of my evidence.

9                   MR. BYRON WILLIAMS:   And as -- as I  
10 understand, the -- the thrusts of your point, there's a  
11 general pins -- principle that since domestic ratepayers  
12 pay for the system, to some degree, they should benefit  
13 from it, in -- including export revenues.

14                   Is that fair, sir?

15                   MR. PETER OSTERGAARD:   Yes, that's fair.

16                   MR. BYRON WILLIAMS:   And you noted in the  
17 BC context, the policy has tended to keep rates between 5  
18 to 6 percent lower than -- than they otherwise would be.

19                   Is that fair, sir?

20                   MR. PETER OSTERGAARD:   Yeah, correct,  
21 based on -- on 1 percentage point, representing about \$25  
22 to \$30 million of -- of revenue requirements. Powerex's  
23 net income ranges in the \$160 to \$180 million per year  
24 range, on average, which translates to a revenue  
25 reduction of that percent.

1                   MR. BYRON WILLIAMS:   And as I understand  
2 your evidence, to the extent that there's a dividend over  
3 200 million, that dividend -- or excuse me, to the extent  
4 that there's annual revenues by Powerex, over 200  
5 million, those revenues would be paid to the -- to the  
6 province by way of dividend.

7                   Is that right, sir?

8                   MR. PETER OSTERGAARD:   Any Powerex net  
9 income exceeding \$200 million in any given year would be  
10 paid to the government in addition to the dividend that  
11 BC Hydro would otherwise be paying the government, based  
12 on the net income.

13                  MR. BYRON WILLIAMS:   And there's an  
14 ongoing debate within British Columbia as whether that  
15 \$200 million limit is an appropriate limit or whether it  
16 should be higher, given the -- the risk that ratepayers  
17 are -- are absorbing within the system.

18                  MR. PETER OSTERGAARD:   Yes, it's expected  
19 that the fifth unit at Revelstoke, and possibly the sixth  
20 unit at Revelstoke, and Mica additions, as well, will  
21 create greater export opportunities, which in turn would  
22 allow Powerex to increase net incomes from the averages  
23 that I indicated in my last answer. And customer groups  
24 are suggesting that since it is domestic ratepayers that  
25 are paying for those capacity expansions, they should be

1 entitled to higher export revenues that those capacity  
2 additions create.

3 MR. BYRON WILLIAMS: And the other thing  
4 that -- that I wasn't quite clear on, I think you lerts -  
5 - used language such as if there's a downturn or a  
6 downside, the province pays out of its dividends.

7 Do you recall saying something to that  
8 effect, sir?

9 MR. PETER OSTERGAARD: Yes, if, in a  
10 very, very bad year Powerex actually has a negative net  
11 income, for whatever reason, the ratepayer is protected.  
12 That -- that loss would -- would be to the account of the  
13 government, not BC Hydro's ratepayers.

14 MR. BYRON WILLIAMS: And -- and can you  
15 explain to me from a policy perspective what the basis  
16 for that thinking is, sir?

17 MR. PETER OSTERGAARD: From a policy  
18 perspective, it is that you are trying to protect  
19 ratepayers in very, very bad years from suffering the  
20 consequences of -- of market conditions that led to a  
21 loss in any given year, in exchange for the upside in  
22 very, very good years, that ratepayers should share the  
23 benefits with -- with the shareholder.

24 MR. BYRON WILLIAMS: Just a last  
25 question, and it can go to either Mr. Bowman or Mr.

1 Ostergaard.

2                   When I looked at the BC stepped rates  
3 approach, would it be fair to say that the rate is  
4 overall aimed at encouraging energy efficiency, it is not  
5 aimed at addressing revenue losses due to lost export  
6 sales?

7                   Would that be a fair statement?

8                   MR. PATRICK BOWMAN:    Yes.

9                   MR. BYRON WILLIAMS:   Mr. Chairman, I'll  
10 review my notes, but I think, subject to that review,  
11 that's the extent of our cross-examination. Thank you.

12                  THE CHAIRPERSON:   Very good. Thank you,  
13 Mr. Williams. Okay, we will be back just before 11:00.  
14 Thank you.

15  
16 --- Upon recessing at 10:41 a.m.

17 --- Upon resuming at 11:00 a.m.

18

19                  THE CHAIRPERSON:   Mr. Williams...?

20                  MR. BYRON WILLIAMS:   Yes, Mr. Chairman, I  
21 have no further questions. I need to leave for a couple  
22 minutes but, tell -- tell My Friend, Mr. Gange, to con --  
23 proceed please.

24                  THE CHAIRPERSON:   Thank you. Mr.  
25 Gange...?

1 MR. BILL GANGE: Thank you, Mr. Chair.

2

3 CROSS-EXAMINATION BY MR. BILL GANGE:

4 MR. BILL GANGE: Mr. Bowman, and panel  
5 members, I don't intend to be very long. But I -- I --  
6 Mr. Bowman, I thought that I understood your evidence  
7 yesterday on discrimination. But then I must admit that  
8 -- that some of the questions that Mr. Williams was  
9 putting to you this morning confused what I had  
10 understood that you were saying.

11 And -- and as I understood it, when you  
12 were talking about the Quebec situation, and the British  
13 Columbia situation, you were saying those regimes, and --  
14 and the -- the plans that they have in effect, with  
15 respect to industrial -- large industrial users, cannot  
16 be considered discriminatory because that legislation  
17 specifically mandates the -- the provisions that -- that  
18 apply.

19 Is that correct, sir?

20 MR. PATRICK BOWMAN: For Quebec, that's  
21 correct. BC is a -- a different situation, but for  
22 Quebec, that's correct.

23 MR. BILL GANGE: And -- and with respect  
24 to -- to Quebec for instance, were it not for the  
25 legislation, the fact that -- that the Quebec Hydro

1 Utility does not have to serve a customer at greater than  
2 50 megawatts, would be discriminatory?

3 MR. PATRICK BOWMAN: Well, I don't want  
4 to end -- end up with the -- the wrong words here, so let  
5 me just make sure we can be clear.

6 I'm -- I'm not positive that in Quebec it  
7 is in fact enabled by legislation, but some -- it -- it  
8 is in policy documents, at least, if not in regulations,  
9 the limit -- obligations as -- the limit on the  
10 obligation to serve. But what -- what is there is the  
11 limit on 50 megawatts. Now, it used to be one seventy-  
12 five (175).

13 Had -- were it not there, there wouldn't  
14 be the limit on obligation to serve. They're one (1) and  
15 the same thing. The -- the Quebec government's policy  
16 decision is the limit on obligation to serve; that's how  
17 it's implemented.

18 MR. BILL GANGE: Yes, but -- but the --  
19 the point is that if -- if Hydro Quebec said to a -- a  
20 customer that wanted to come in at 60 megawatts, No,  
21 we're not going to serve you, that customer would have a  
22 right to say, Well that -- you're discriminating against  
23 me, because you're serving people at less than this rate  
24 -- at less than this -- this value.

25 Isn't that correct, sir?



1 make sure I understand your question, I -- I take it what  
2 you're saying is if there weren't the government  
3 legislation or policy that's in place, that what's in  
4 place would be a normal regulatory framework for the  
5 Regie, which would say Hydro Quebec is not allowed to  
6 charge rates unless approved by the Regie. And -- but --  
7 but there would be no limit, no discussion of 50  
8 megawatts or anything of that sort.

9           And an individual customer came to Hydro  
10 Quebec and said, I would -- I want to be served, and  
11 Hydro Quebec said, No, or alternatively the customer went  
12 to the Regie, and before the Regie there was a --  
13 effectively a -- you -- you're suggesting a -- a decision  
14 that they wouldn't set a rate for the customer. I -- I'm  
15 not sure how someone could do that.

16           The -- as -- as I would understand the  
17 regulatory regime, generally, without getting into  
18 specifics of Quebec, the regulator would have the  
19 responsibility to approve rates, not to disapprove  
20 service, if -- if you know what I mean. I don't -- I  
21 don't know that they have that ability.

22           The -- a regulated utility comes with the  
23 presumption that you get -- you start with something  
24 that's a natural monopoly and an essential service.

25           You give them a piece of legislation which



1 sets out controls on them so they can't act like  
2 monopolists but also give them protections so that some  
3 of their loads aren't picked off by others or whatever  
4 else. And -- and it's called a franchise or -- or a -- a  
5 protection that you -- within their service area,  
6 they'll be the only utility allowed to serve customers.  
7 And with that comes an obligation to serve all who would  
8 come and practically request service.

9                   So the -- that's sort of a package, as the  
10 regulatory compact. So I don't -- I don't know how  
11 within that, either Hydro Quebec or the Regie could --  
12 could wash their hands of a customer.

13                   MR. BILL GANGE: Thank you. Mr.  
14 Ostergaard, as I understand it, in -- in your discussion,  
15 in terms of the testimony that you've provided to us, is  
16 a description of the process that has been set up in  
17 British Columbia, pursuant to a legislative mandate given  
18 -- given by the government and -- and direction given by  
19 the -- by the government to the BC Utility Commission?

20                   Is that correct, sir?

21                   MR. PETER OSTERGAARD: You're referring  
22 to a negotiated settlement process?

23                   MR. BILL GANGE: Well, you mentioned that  
24 -- that -- that the BC Utility Commission takes direction  
25 from the -- from the British Columbia Government.

1 MR. PETER OSTERGAARD: Yes, under the  
2 Utilities Commission Act, the cabinet can issue  
3 directions to the BCUC, with respect to just about any  
4 matter affecting any utility, including BC Hydro.

5 MR. BILL GANGE: And -- and, in fact, you  
6 said that while you were the Commissioner -- or while you  
7 were the Chair of the BCUC, there was a -- a rate freeze  
8 that was in effect.

9 Is that correct, sir?

10 MR. PETER OSTERGAARD: For British  
11 Columbia Hydro, yes, there was a rate freeze through  
12 provincial legislation imposed in 1998.

13 MR. BILL GANGE: So -- so all of the  
14 regulator's powers -- normal powers, with respect to  
15 setting rates were -- were frozen by that legislation?

16 MR. PETER OSTERGAARD: For BC Hydro, yes.

17 MR. BILL GANGE: Yes. And -- and you're  
18 aware, sir, that -- that in Manitoba, there has been  
19 virtually no direction provided by the -- by the  
20 provincial government to Manitoba Hydro or to the Public  
21 Utilities Board, with respect to setting rates for hydro?

22 MR. PETER OSTERGAARD: Based on my  
23 limited understanding of the situation here, it's -- it's  
24 a logical conclusion in my own mind that the Manitoba PUB  
25 does not get the same level of direction than (sic) the

1 BC Utilities Commission.

2 MR. BILL GANGE: Yes.

3 MR. ROBERT MAYER: Ignoring, of course,  
4 the rate freeze which was imposed in Manitoba over a  
5 significant period of time.

6

7 (BRIEF PAUSE)

8

9 CONTINUED BY MR. BILL GANGE:

10 MR. BILL GANGE: Mr. Bowman, following up  
11 on -- on the Vice Chair's commentary 'cause I'm -- I'm  
12 not certain of the answer to this, Mr. Vice Chair, was  
13 that rate freeze imposed by the provincial government,  
14 that -- that the Vice Chair is referring to?

15 MR. PATRICK BOWMAN: The -- I -- I'm  
16 aware of two (2) items. I'll give you what I know on the  
17 subject and we'll see if it gets -- the more recent  
18 example of the government giving direction on a matter  
19 that was determined to be a significant public policy  
20 matter was the uniform rates legislation.

21 It was announced in a throne speech. It  
22 was the subject of an application by Manitoba Hydro to  
23 this Board to implement uniform rates. The Board started  
24 to set out a process, and then it was clarified by the  
25 legislature that they were going to implement it by

1 legislation. So the application was withdrawn and there  
2 was a -- legislation brought in.

3 As -- if you go way back, prior to the  
4 current regulatory regime that we're dealing with now,  
5 there was a long period of Manitoba Hydro rate freeze.  
6 And it -- it's far back in my memory banks the exact  
7 date, but it would have been before the Crown  
8 corporation's act was put in place. And -- and I recall  
9 that that was pursuant to some government action, but I  
10 don't know that -- the details, as whether it was  
11 legislation or -- or directives or how it worked.

12 MR. BILL GANGE: Currently, in any event,  
13 the -- the -- it's clear that -- that -- that the  
14 provincial government has taken a hands-off approach,  
15 with respect to the direction of -- of rates, and -- and  
16 setting of -- of rate design by Manitoba Hydro.

17 Is that correct, Mr. Bowman?

18 MR. PATRICK BOWMAN: Well, the only rate  
19 matter that I can recall them dealing with that was  
20 declared to be a significant public policy matter was the  
21 uniform rates legislation.

22 The previous rates-related discussions  
23 before that, I think, went to the mid to late '90s, when  
24 the Public Utilities Board Act was changed to, for  
25 example, allow forbearance on certain rates and -- and

1 that sort of thing.

2 But I -- I don't recall, or it doesn't  
3 come to the front of my mind at least, other -- other  
4 legislative changes or -- or items in -- in the meantime.

5

6 (BRIEF PAUSE)

7

8 MR. BILL GANGE: And -- and the current  
9 regime, as you've discussed, Mr. Ostergaard, in -- in  
10 British Columbia is that if a customer comes and wants to  
11 use over 150 megawatts, they are going to be required to  
12 pay upfront capital costs of -- of some -- pursuant to  
13 some calculations. Is that correct?

14 MR. PETER OSTERGAARD: That's correct.  
15 They would be paying generation costs and perhaps some  
16 reinforcements to the 500 kV transmission system,  
17 depending on the project.

18 MR. BILL GANGE: You also indicated that  
19 the -- that the -- that, as I understand it, pursuant --  
20 is it pursuant to legislation that -- that the -- the  
21 rates have to be uniform throughout the classes?

22 MR. PETER OSTERGAARD: There is no  
23 explicit legislation in the Utilities Commission Act or  
24 the BC Hydro and Power Authority Act that does stipulate  
25 that, but that's a convention that has been adopted.

1                   BC Hydro, for example, has different rate  
2 structures based on whether you're a part of the  
3 integrated system or whether you're a diesel generating -  
4 - generator customer.

5                   MR. BILL GANGE:    And what you did testify  
6 about was that -- that the -- that the rate structure is  
7 designed to be revenue neutral, with respect to the  
8 inclining rates for the classes themselves.

9                   Is that correct, sir?

10                  MR. PETER OSTERGAARD:   With respect to  
11 industrial customers, the stepped rate system is meant to  
12 be nev -- revenue neutral at the level of the individual  
13 industrial customer, provided that industrial customer  
14 consumes 100 percent of their customer baseline load.

15                  For the residential inclining block rate  
16 structure, which was very recently adopted, the -- the  
17 revenue neutrality applies at the rate class level.

18                  MR. BILL GANGE:    Right.  And -- and  
19 again, is that -- is that pursuant to convention, or is  
20 that pursuant to some other mechanism?

21                  MR. PETER OSTERGAARD:   It would be  
22 pursuant to convention, whereby, as in other  
23 jurisdictions, rate design proceedings have occasionally  
24 suggested that the -- the banding between the ninety (90)  
25 to one hundred and ten (110) band be amended so that the

1 customers move towards point -- move towards one point  
2 zero (1.0), which has occasionally happened in -- in  
3 British Columbia.

4                   There was a rate design proceeding earlier  
5 this year which was subsequently -- had its decision  
6 overturned by legislation as part of the Utilities  
7 Commission Amendment Act in the spring of 2008, where the  
8 government did not want to see resident -- did -- did not  
9 want to see the decision of the Commission implemented.

10                   MR. BILL GANGE: I understand, from what  
11 you said, that the -- that the -- in terms of the  
12 inclined rate for the industrial class, the second tier  
13 is set on -- on market price, in terms of what can --  
14 what power can be purchased for.

15                   MR. PETER OSTERGAARD: The second tier is  
16 based on BC Hydro's most recent costs for electricity,  
17 based on their calls for proposals from independent power  
18 producers.

19                   MR. BILL GANGE: Yes, and that would --  
20 that -- that rate is what, seven point three (7.3) cents?  
21 Is that --

22                   MR. PETER OSTERGAARD: Yes --

23                   MR. BILL GANGE: Yes.

24                   MR. PETER OSTERGAARD: -- seven point  
25 three six (7.36) cents, I believe, is the rate for the

1 current year. For last year it was five point four (5.4)  
2 cents per kilowatt hour, based on the 2003 average price  
3 in the ream (phonetic) call in 2003.

4 MR. BILL GANGE: So it's gone up quite  
5 substantially during that -- that time period?

6 MR. PETER OSTERGAARD: That's correct.

7 MR. BILL GANGE: Okay. And -- and the  
8 other thing that I understood that -- that you said was  
9 that using that, the -- the inclining rate has had quite  
10 a considerable impact in -- in terms of customer usage?

11 MR. PETER OSTERGAARD: Yes, the  
12 Information Request responses that were submitted  
13 contained both of the first two (2) annual reports by BC  
14 Hydro on the transmission service rate for the first two  
15 (2) years of operation.

16 And they go into considerable detail with  
17 respect to the DSM savings that have been achieved by the  
18 inclining block rate structures over the first two (2)  
19 years.

20 MR. BILL GANGE: So then in terms of --  
21 in terms of -- if one of the -- the purposes of the  
22 inclined rate is to promote DSM measures, to promote  
23 conservation, this has been quite an effective tool, in -  
24 - in the experience of BC Hydro?

25 MR. PETER OSTERGAARD: I believe that's a



1 fair interim conclusion. The intent is to have an  
2 evaluation starting, likely, in early to mid-2009 as part  
3 of the process as contemplated initially, whereby the  
4 BCUC will hold a proceeding and prepare an evaluation  
5 report on the success, or otherwise, of the stepped rate  
6 structure for industrial customers and submit it to the  
7 government by the end of 2009.

8 MR. BILL GANGE: And I take it, from what  
9 you -- what you said in your testimony, that it's been  
10 such a success that at least one (1) of the consumer  
11 groups in British Columbia has taken issue with it to say  
12 that it's -- it has created a system imbalance, because  
13 the -- the first rate block is set at a lower rate than  
14 it ordinarily would be. And so there's a revenue  
15 shortfall coming from -- from the industrial group.

16 Is that correct, sir?

17 MR. PETER OSTERGAARD: I believe the  
18 concern of a consumer group is that because rates are set  
19 on a forward-going basis and customer baseline loads are  
20 set based on actual consumption in the past, there seems  
21 to be a pattern of under-collection for industrial  
22 customers as a class, as opposed to whatever the Tier 1  
23 or Tier 2 rate is.

24 That -- that is not the -- that is not the  
25 issue in -- it's my understanding, with respect to what

1 the consumers groups are concerned about.

2

3

(BRIEF PAUSE)

4

5 MR. BILL GANGE: And -- and I also  
6 understand that -- that part of the process, in terms of  
7 the BC model, is that the other rate groups ought not to  
8 be suffering the cost of expansion.

9 And -- and to protect against that,  
10 there's that 150 megawatt limit over which a new customer  
11 is going to have to pay for the capital expansion.

12 Is that correct, sir?

13 MR. PETER OSTERGAARD: Generally, yes, if  
14 we're talking now about new industrial loads, none of  
15 which have occurred over that threshold since the tariff  
16 supplement was put in place in 1991.

17 MR. BILL GANGE: So it may well be that  
18 it's -- it's serving as a -- as a very effective  
19 deterrent to what might be labelled as an economic  
20 growth.

21 MR. PETER OSTERGAARD: I believe the --  
22 the -- well, 150 MVA translates roughly, according to  
23 the engineers, to be about 150 megawatts.

24 The largest expansion since the tariff  
25 supplement was put in place, to my understanding, is the

1 recent Kinder Morgan pipeline compressor station  
2 reinforcements, which are described in my evidence, as I  
3 recall, in the 55 to 60 megawatt range, so less --  
4 approximately a third of -- of that threshold is the  
5 largest expansion since '91.

6 MR. BILL GANGE: But -- but I -- am I  
7 right that the theoretical thought on this, though, is  
8 that if you -- if you make the customer pay for that  
9 expansion himself or itself over a 150 megawatts, then  
10 you're protecting the other rate classes from the cost of  
11 expansion?

12 MR. PETER OSTERGAARD: Certainly the  
13 capital cost, yes. I can -- I can cite a letter from BC  
14 Hydro to the BC Utilities Commission, which is dated  
15 December 13th, 2002. And this is in the context of the  
16 Alberni Aluminium complaint to the Commission about that  
17 very issue.

18 One of the questions from the Commission  
19 staff was:

20 "Please explain BC Hydro's position  
21 with regards to its reliance on the 150  
22 MVA limit for the supply of new loads."

23 And Hydro's answer is:

24 "The 150 MVA limit appears in the  
25 definition section."

1 I'm attempting to paraphrase here. BC  
2 Hydro submits that this wording makes it clear that for  
3 loads in excess of 150 MVA, system reinforcement does not  
4 stop downstream of the 500 kV system, but instead carries  
5 all of the way upstream to the generator.

6 The clause is intended to affect the cost  
7 sharing such that the existing customers are, from a  
8 revenue requirement perspective, relatively indifferent  
9 as between whether or not a new customer has joined the  
10 system. That is, the new customer should not affect the  
11 BC Hydro's return on Rate Schedule 1821 rate base; so to  
12 try to keep the industrial class relatively whole and  
13 thereby not having effects that could spill over onto  
14 other rate classes.

15

16 (BRIEF PAUSE)

17

18 MR. BILL GANGE: And as I understood it,  
19 sir, your evidence has been that -- that BC has been  
20 wrestling with this issue of how to deal with large  
21 industrial users for -- is it twenty-five (25) years?

22 MR. PETER OSTERGAARD: I believe I put  
23 that year in my -- my direct evidence yesterday, based on  
24 the fact that it was the early 1980s when BC Hydro and  
25 its industrial customers attempted to first reconcile the

1 need for a facilities agreement to accommodate new loads  
2 and a system -- a standard system form agreement to -- to  
3 make uniform the -- the existing contracts at that time  
4 between BC Hydro and their industrial customers.

5 MR. BILL GANGE: And, Mr. Bowman, how  
6 long has it been that -- that Quebec Hydro has been  
7 dealing with this -- the issue of large industrial loads;  
8 setting that limit?

9 I -- I think that you said at first it was  
10 a hundred -- did you say it was a hundred and fifty  
11 (150), and -- and then it was reduced to -- to fifty  
12 (50)?

13 MR. PATRICK BOWMAN: The reduction to 50  
14 megawatts was from a hundred and seventy-five (175).  
15 That occurred, as I recall, about two (2) -- well, it was  
16 -- there was a policy discussion that the government  
17 undertook on -- on broad energy policy that occurred over  
18 about two (2) years, as I recall, from 2004 to 2006.  
19 The 50 megawatt limit didn't actually get enshrined in  
20 the -- in the utility's terms and conditions until  
21 probably early 2008.

22 But prior to that, the 175 megawatt limit  
23 goes back as -- as far as we can find documents going --  
24 is probably to the '80s.

25 MR. BILL GANGE: Is it fair to say that

1 of -- of these Crown corporations, therefore, that up  
2 until recently, Manitoba Hydro would be unique in that it  
3 was the only -- of the three (3), it was the only one  
4 that wasn't dealing with the problem of -- of large  
5 industrial growth?

6 MR. PATRICK BOWMAN: I don't know that I  
7 can say that for sure, only because you'll see BC's  
8 situation arose -- you know, was being dealt with in the  
9 -- in the early/mid-'80s. Hydro Quebec's probably dates  
10 from at least that period, if not before.

11 That was a period where Hydro -- Manitoba  
12 Hydro wasn't regulated in the same way by this Board. So  
13 if that was, you know, topics that were being discussed,  
14 it -- it wouldn't have been something that would have  
15 showed up before this Board.

16 Since that time, when you look at the type  
17 of limits that were in place, BC's and Quebec's, Manitoba  
18 Hydro's never added a load of that size in -- in, you  
19 know, twenty (20) years. As a matter of fact, I'm not  
20 sure -- I don't know how far you'd have to go back before  
21 a single 150 megawatt load would have been added to the  
22 system, if -- if ever in Manitoba. I'm -- I don't -- I  
23 don't know for sure.

24 It's been -- it's been a different  
25 situation of, you know, incremental changes or -- or

1 additions of a plant here or there. But these are  
2 triggered by -- by sort of major shifts in system, not --  
3 not someone adding 10 megawatts in one (1) given year.

4 MR. BILL GANGE: You would agree with me,  
5 Mr. Bowman, though that Manitoba is in a significantly  
6 different situation than both British Columbia and  
7 Quebec, in that clearly the Quebec Government has taken  
8 an activist role in terms of assessing what new  
9 industrial growth should take place, and so has the  
10 British Columbia government?

11 Is that correct, sir?

12 MR. PATRICK BOWMAN: I -- I will speak  
13 for the Quebec one. To my knowledge, yes, the Quebec  
14 Government has very much taken an activist role in  
15 dealing with very large industrial loads. I could let  
16 Mr. Ostergaard speak to the extent to which the BC  
17 government has taken an activist role in dealing with  
18 large industrial loads.

19 MR. PETER OSTERGAARD: The BC government  
20 realize on Tariff Supplement 6, as negotiated and  
21 approved in 1991 -- unless there are other circumstances  
22 by which the government would like to come up with a  
23 different solution, and I cited the example of the  
24 northwest transmission line as -- as a particular example  
25 of that -- the government was not willing to change the

1 rules of Tariff Supplement Number 6, in response to the  
2 request of this particular aluminum smelter that prompted  
3 the complaint to the BC Utilities Commission.

4 But in general, the British Columbia  
5 Government relies on BC Hydro's system, the self-  
6 sufficiency policy to ensure that British Columbia has  
7 enough electricity at all times to meet load growth,  
8 whether it be industrial, commercial, residential of any  
9 sort.

10 MR. PATRICK BOWMAN: If -- if I just --  
11 supplement the answer, because I think it may be helpful.  
12 These aren't the only two (2) examples in Canada at all.  
13 In Yukon there was the case of the Faro Mine which, was  
14 40 percent of the load of the system. And the regulatory  
15 tribunal there dealt with the comings and goings of the  
16 Faro Mine within the -- the rules -- within -- within  
17 regulatory principles and rate setting.

18 But at times there was a key public policy  
19 aspect to that customer and -- and there were some  
20 directives from government, in respect of things like re-  
21 hooking up the mine when it still had outstanding bills;  
22 it came through an order in council.

23 And of course if anyone is watching the  
24 news, you'll see that in Newfoundland, industrial users  
25 of power is a -- is an issue d'jour, with respect to a



1 paper mill closing and having their -- their Hydro assets  
2 expropriated by the province.

3 So the idea that large industrial  
4 customers beyond a certain threshold attract the  
5 attention of government when necessary, is not -- is not  
6 all unique across Canada.

7 MR. BILL GANGE: But what is unique is  
8 that -- is the fact that in Manitoba the provincial  
9 government has left it to the PUB process to develop the  
10 -- the concept of how to deal with -- with large  
11 industrial growth.

12 Is that correct, Mr. Bowman?

13 MR. PATRICK BOWMAN: It -- it may be  
14 unique or it may not be. Only because I say that  
15 provincial governments have dealt with matters related to  
16 large industry where they've been determined to be  
17 significant matters of public policy.

18 It may be not unique in that Manitoba  
19 doesn't determine this to be a matter of significant  
20 public policy. I -- I can't comment on that. I don't  
21 see much on the record in respect to the -- the  
22 government's role here, so I -- I'm afraid I can't offer  
23 anymore.

24

25

(BRIEF PAUSE)

1                   MR. BILL GANGE:           Mr. Bowman, during  
2 your testimony yesterday, did -- did you say that  
3 industrial users no longer receive a subsidy from the  
4 export profits in their rates?

5                   Is -- was that the effect of what you were  
6 saying?

7                   MR. PATRICK BOWMAN:    I was saying, as  
8 that term -- that -- the sub -- the definition of  
9 subsidy, as people use in this room, changes frequently.

10                   Under one of the more typical definitions,  
11 to the extent it arises, it would be the extent to which,  
12 when you look at Hydro's costs, any individual customer  
13 class is paying their share of Hydro's costs.

14                   We have seen cost of service studies where  
15 Hydro effectively takes all net export revenues and  
16 credits them back to all of the customer classes in -- in  
17 proportion, or in relation to the formula in place at the  
18 time, to determine whether customers are paying their  
19 costs.

20                   But you can also do that calculation  
21 before you credit those net export revenues. In the Cost  
22 of Service Studies until recently, we -- those RCC  
23 ratios, revenue to cost coverage ratios, would have  
24 showed some customer classes higher and some customer  
25 classes lower than costs once they received an allocation

1 of the net export revenues.

2                   What's changed is that if you go to that  
3 earlier revenue cost coverage type of measure, that looks  
4 at the extent to which each customer class is covering  
5 their system costs before crediting net export revenues,  
6 we now have a major class -- large industry -- above 100  
7 percent RCC at -- at that measure -- so before any net  
8 export allocation.

9                   Once the export revenues has been assigned  
10 a fair share of embedded costs, but before any net export  
11 -- net export rev -- revenue allocation, the industrials  
12 are more than covering their costs. My recollection is  
13 street lights may be as well.

14                   But we're -- we're getting to the point  
15 where export revenues that are received in excess of the  
16 costs to -- to Manitoba Hydro to supply them on a -- on  
17 an average cost basis are -- are now only used for a very  
18 -- a smaller group of customers in order to keep their  
19 rates down.

20                   MR. BILL GANGE:    But -- I -- I take it  
21 that what you're saying is it -- it depends upon how you  
22 define "subsidy."

23                   There -- there's no question but that --  
24 that a portion of the net export profits are applied to  
25 the GSL customers?

1                   MR. PATRICK BOWMAN: Well, we have plants  
2 -- Hydro incurs substantial costs, as we reviewed in the  
3 Cost of Service Study, to serve exports.

4                   It receives revenues from those exports,  
5 but it incur -- incurs substantial costs. Some of those  
6 are incremental costs, like fuel it runs when it can make  
7 good money in export markets. Some of them are sunk  
8 capital costs. But they're still being used, those  
9 assets, to serve exports.

10                   So as a result of that, we did a Cost of  
11 Service review and we determined a fair way to allocate  
12 the cost of the assets to each kilowatt hour that's using  
13 them.

14                   Once you've done that, you have a cost to  
15 supply each type of load, and then you can determine  
16 whether some loads are paying above cost or some loads  
17 are paying below cost. It could be measured as a revenue  
18 cost coverage ratio.

19                   If you were to do that, my recollection is  
20 you'd find exports or about 140 percent of costs, or  
21 something of that nature, street lights and industrials  
22 are about 100 percent of costs, and other customer  
23 classes are below cost.

24                   And, so what we do is we take that 40  
25 percent from exports and we assign it off to those --

1 that -- that subset of -- other subset of classes so they  
2 don't have to pay their 100 percent of -- of cost  
3 measured on the assets. They get -- the -- the net  
4 export allocation.

5 And that, in the normal context of reading  
6 a -- a Cost of Service Study in a regulated jurisdiction  
7 is where someone may go to the term "subsidy," the -- the  
8 -- an ongoing ability to pay less than -- then the  
9 allocated cost to serve you.

10 But as I said, I don't -- I don't believe  
11 that's true anymore for street lights, and -- and as of -  
12 - as of this last rate change, it's not true for the  
13 industrial class either.

14 MR. BILL GANGE: Thank you, Mr. Chair,  
15 those are my questions. Thank you, panel.

16 THE CHAIRPERSON: Thank you, Mr. Gange.  
17 Ms. Ramage for Manitoba Hydro...?

18 MS. PATTI RAMAGE: Yes, thank you, Mr.  
19 Chair.

20

21 (BRIEF PAUSE)

22

23 CROSS-EXAMINATION BY MS. PATTI RAMAGE:

24 MS. PATTI RAMAGE: Mr. Ostergaard, would  
25 you agree with the proposition that the reason for

1 pursuing reform and, by implication, the kinds of reform  
2 best adopted are a function of a jurisdiction's  
3 particular conditions?

4 MR. PETER OSTERGAARD: I guess the -- the  
5 way one views these issues is shaped by one's  
6 experiences.

7 MS. PATTIE RAMAGE: But that particular  
8 proposition, I've actually pulled it from your evidence,  
9 and it was a Dr., I think, Mark Jaccard you attributed it  
10 to.

11 Do you agree with tha -- that --

12 MR. PETER OSTERGAARD: I'm sorry. Could  
13 you repeat the question?

14 MS. PATTIE RAMAGE: -- that proposition?  
15 And the proposition was the reason for pursuing reform,  
16 and by implication, the kinds of reform best adopted are  
17 a function of a jurisdiction's particular conditions.

18 I -- I found that at page 30 of your  
19 evidence, at line 12.

20

21 (BRIEF PAUSE)

22

23 MR. PETER OSTERGAARD: Certainly, the --  
24 the statement came from Dr. Jaccard's report as the  
25 advisor of the -- of the report under the Inquiry Act

1 that he was asked -- asked to prepare, and he titled it,  
2 "Reforming BC's Electricity Market: A Way Forward."

3 And in general, yes, I would agree with  
4 his -- his statement in that report, that the reasons for  
5 pursuing any reform are a function of a jurisdiction's  
6 particular conditions.

7 MS. PATTIE RAMAGE: Thank you. Now, I  
8 think I heard you say today the BC Government has  
9 directed BC will be electricity self-sufficient by 2016.  
10 Is that correct?

11 MR. PETER OSTERGAARD: That's correct, BC  
12 will be electricity self-sufficient by 2016 under the  
13 2007 energy policy.

14 MS. PATTIE RAMAGE: And is it your  
15 understanding that Manitoba is it -- no -- Manitoba is  
16 electricity self-sufficient today?

17 MR. PETER OSTERGAARD: I don't have a  
18 straight answer for the question. Perhaps Mr. Bowman can  
19 help me.

20

21 (BRIEF PAUSE)

22

23 MR. PATRICK BOWMAN: The -- just -- just  
24 to help out, the -- the definition, as it's used in BC  
25 for self-sufficiency, is that under the most critical

1 water conditions, there needs to be enough generation in  
2 -- within the province of BC to meet all committed loads.

3 And Mr. -- I see Mr. Ostergaard nodding --

4 MR. PETER OSTERGAARD: That's correct.

5 MR. PATRICK BOWMAN: -- so I'm assuming  
6 I've got it right. And -- and in respect of committed  
7 loads, my understanding would be BC doesn't have  
8 committed exports the way Manitoba does, so I presume it  
9 means domestic loads. But, again, Mr. Ostergaard can  
10 correct me.

11 Manitoba -- in other words, you would --  
12 you would look to the system Power Resource Plan type of  
13 tables, take the total power resources, and take off the  
14 imports line -- because even committed imports wouldn't  
15 qualify under BC's type of system -- and compare that  
16 against the 2008 base load forecast.

17 And in respect of that, if I look through  
18 the -- the scenarios, it would -- it would be true today  
19 by, I'm -- I'm guessing, about 1 terawatt hour. Whether  
20 it's true all the way through the power resource planning  
21 forecast, I can't say.

22 It seems to me there may be a year or two  
23 (2) where it's -- where it may not be covered as you get  
24 further out, but it would -- under that type of  
25 definition, it would appear to be true today.



1 MS. PATTIE RAMAGE: Thank you. And in  
2 BC's case, it's BC Hydro who has indicated it plans to  
3 meet the self-sufficiency objective in part by purchasing  
4 more power from IPPs.

5 Is that correct?

6 MR. PETER OSTERGAARD: That's correct.  
7 Purchasing more power from IPPs, more aggressive demand-  
8 side management to flatten the growth curve by 50 percent  
9 by 2020, and investigate Site C as a possible new BC  
10 Hydro resource -- supply-side resource acquisition.

11 MS. PATTIE RAMAGE: I'm glad you  
12 mentioned Site C, only because you can maybe clarify  
13 something. I thought I read somewhere that there was  
14 direction from BC government, not -- for BC Hydro not to  
15 build its own new generation. But when we talk about  
16 Site C, that would be some BC Hydro generation, would it  
17 not?

18 Is there a -- any sort of a direction from  
19 the government for BC Hydro not to build its own?

20 MR. PETER OSTERGAARD: There's a  
21 statement in the 2002 Energy Plan say -- that says that  
22 BC will -- BC Hydro will acquire all new supply-side  
23 resources from independent power producers, with the  
24 exception of large new hydro projects, including Site C.

25 If Site C is to be pursued by BC Hydro,

1 the final decision will be made by Cabinet.

2 MR. ROBERT MAYER: Where is Site C,  
3 please?

4 MR. PETER OSTERGAARD: Site C is the  
5 third project on the Peace River. It's just southwest of  
6 Fort St. John, downstream from the W.A.C Bennett Dam,  
7 which is BC's largest, and the Peace Canyon project,  
8 which was built subsequent to the -- the Bennett Dam.

9 It would be the third and final project on  
10 the Peace. I -- I might add that there was a serious  
11 attempt to have Site C built in the 1980s. However, the  
12 report and recommendations from the BC Utilities  
13 Commission with respect to issuing an energy project  
14 certificate were submitted to government and accepted.

15 Those recommendations were that basically  
16 Site C was not needed for domestic purposes at the time.

17 MS. PATTIE RAMAGE: One of the objectives  
18 of BC's transmission service rate was to create a level  
19 playing field for IPPs to compete with BC Hydro for  
20 customers of Tier 2 load.

21 Is that correct?

22 MR. PETER OSTERGAARD: That's one of the  
23 policies in the 2002 Energy Plan, yes.

24 MS. PATTIE RAMAGE: And there are  
25 presently approximately forty-five (45) IPPs operating in

1 BC.

2 Is that about right -- sound right?

3 MR. PETER OSTERGAARD: That's about  
4 right. It's about 7,000 gigawatt hours a year in total,  
5 mostly from small hydro projects.

6 MS. PATTIE RAMAGE: And the Tier 2 rate  
7 in BC is set on BC's average long-term opportunity cost  
8 of new supply, specifically, the average price paid to  
9 new independent power producers under the most recent  
10 call for tender.

11 Is that correct?

12 MR. PETER OSTERGAARD: That's correct.  
13 The most recent call was the summer of 2006, deriving a  
14 price, as was mentioned a few minutes ago, in the range  
15 of seventy-three dollars (\$73) per megawatt hour.

16 There is a current call, which may well  
17 set the price in future.

18 MS. PATTIE RAMAGE: Now, I noticed in  
19 your evidence that you used the term "new independent  
20 power producers." I'm just wondering if there was any  
21 significance in the term. That was at page 4. And if  
22 there's no significance, that's not a problem.

23 But it did say "new independent power  
24 producers," and I'm wondering if there was significance  
25 between a new independent power producer and -- and an

1 old and existing, or...?

2 MR. PETER OSTERGAARD: And the line on  
3 page 4, please, Ms. Ramage?

4

5 (BRIEF PAUSE)

6

7

8 MR. PETER OSTERGAARD: That can be a  
9 redundant --

10 MS. PATTIE RAMAGE: Twenty-five.

11 MR. PETER OSTERGAARD: Yes, thank you.  
12 Paid to independent power producers. I think the -- the  
13 context of the word "new" might be some companies develop  
14 projects under different calls. So if Company A had a  
15 project under the 2003 call and a new project under the  
16 2006 call, then the 2006 call price would apply in  
17 calculating the average.

18 MS. PATTIE RAMAGE: Okay. And it's my  
19 understanding that BC Hydro presently has eighty-seven  
20 (87) active energy purchase agreements with IPPs.

21 Does that sound about right?

22 MR. PETER OSTERGAARD: Yes, there's  
23 several -- several IPPs that are under construction and  
24 have yet to deliver. The eighty-seven (87) number, I  
25 cannot comment whether it's the exact number or not, but

1 it sounds about right.

2 MS. PATTIE RAMAGE: Now, in the 2006 call  
3 for tenders you referred to, it's my understanding BC  
4 Hydro awarded thirty-eight (38) separate contracts.

5 Is -- would that be correct?

6 MR. PETER OSTERGAARD: My recollection of  
7 a number is in the high thirties, yes.

8 MS. PATTIE RAMAGE: And that would be a  
9 pure tender process, in terms of the terms of the  
10 contract were worked out ahead of time so that each IPP  
11 essentially wrote in -- would insert a figure in the --  
12 in the blank for how much they would offer energy at.

13 Is that correct?

14 MR. PETER OSTERGAARD: It was a  
15 competitive call with respect to the exact rules. I  
16 cannot verify the -- the exact filling in the blanks  
17 concept here. I think the important difference between  
18 the 2006 call, which was a call for tenders, and the  
19 current 2008 call, which is more of an expressions of  
20 interest, is that the current 2008 call will allow BC  
21 Hydro some negotiation room. That did not occur with the  
22 2006 call.

23 MS. PATTIE RAMAGE: That's -- we're --  
24 we're working from the same page, which is good news.

25 Now, it's my understanding that the

1 average levelized price from these contracts are  
2 publically disclosed, but they're not tied back to the  
3 particular IPP that offered the price. Would that be  
4 correct?

5                   Maybe I should clarify that the IPP's  
6 identity is not disclosed, just the average of the -- the  
7 thirty-eight (38) contract numbers?

8                   MR. PETER OSTERGAARD: That's -- that's  
9 correct, yes. The BC Utilities Commission has a  
10 statutory requirement to approve each of these contracts.  
11 They are submitted individually in confidence to the BC  
12 Utilities Commission, and they remain in confidence.

13                   MR. ROBERT MAYER: So the Utilities  
14 Commission always has the exact numbers, but it's -- it's  
15 kept under wraps.

16                   So the public doesn't know, but the  
17 commission itself does?

18                   MR. PETER OSTERGAARD: That's correct.  
19 The public does not know what Plutonic Power bid in for  
20 their Toba Montrose project. But the Commission had to  
21 know that number before it could approve the contract.

22  
23 CONTINUED BY MS. PATTI RAMAGE:

24                   MS. PATTI RAMAGE: In British Columbia,  
25 are industrial customers able to use a transmission

1 tariff to purchase energy directly from suppliers outside  
2 of BC?

3

4

(BRIEF PAUSE)

5

6

7

8

MR. PETER OSTERGAARD: Yes, under the  
Open Access Transmission Tariff they would be able to do  
that, but they don't.

9

10

11

MS. PATTI RAMAGE: And they're definitely  
able to purchase directly from IPPs -- provincial IPPs  
for their second tier load.

12

Is that correct?

13

MR. PETER OSTERGAARD: Yes, it is.

14

MS. PATTI RAMAGE: And again, they don't?

15

16

MR. PETER OSTERGAARD: None -- none to  
date have chosen to do so.

17

18

(BRIEF PAUSE)

19

20

21

MS. PATTI RAMAGE: Mr. Ostergaard, BC  
Hydro is a net importer of energy; is that correct?

22

23

24

25

MR. PETER OSTERGAARD: Yes, in -- I  
believe it's in seven (7) of the last -- six (6) or seven  
(7) of the last eight (8) years, BC Hydro has imported  
between 3 and 13 percent of its domestic supply

1 requirements. Fiscal '08 was a bit of an exception,  
2 because it was a very high water year.

3 I should clarify that they are net  
4 importers because they have chosen to do so for economic  
5 reasons to avoid running the 900 megawatt Burrard Thermal  
6 Generation Plant.

7

8 (BRIEF PAUSE)

9

10 MS. PATTI RAMAGE: And Powerex, Powerex  
11 is a power trader that enters into short-term market  
12 transactions.

13 Is that correct?

14 MR. PETER OSTERGAARD: Powerex is a  
15 wholly owned subsidiary of BC Hydro. It's full name is  
16 the BC Power Exchange Corporation. And they focus on  
17 near to midterm trades of both electricity and also, to a  
18 lesser extent, natural gas.

19 MS. PATTI RAMAGE: Now, it's my  
20 understanding that it wouldn't be accurate to say Powerex  
21 handles a 100 percent of BC Hydro's exporting activities  
22 in that BC Hydro has two (2) long-term firm export  
23 commitments, one in Alaska and -- and the other in  
24 Washington.

25 Does that sound correct?



1 MR. PETER OSTERGAARD: Yes, BC Hydro  
2 supplies the very, very small settlement of Hyder,  
3 Alaska, which is across a bridge from Stewart, British  
4 Columbia, which is served by a 138 kV line from Meziadin  
5 Junction in Northwestern British Columbia.

6 So it makes much more sense to serve that  
7 very small community of Hyder through the BC Hydro  
8 integrated system than requiring utilities in Alaska to  
9 install a diesel generator.

10 There's also a commitment to supply  
11 Seattle City Light with long-term electricity as a result  
12 of what's called the Skagit Treaty. Seattle City Light  
13 is a municipally owned utility serving the city of  
14 Seattle.

15 One of its main generation sources is the  
16 Ross Dam on the Skagit River. The Skagit River rises in  
17 British Columbia, but flows into Washington state. The  
18 Ross Dam generates, as I mentioned, much of the  
19 electricity. In the 1970s and early 1980s Seattle City  
20 Light wanted to raise the level of the High Ross Dam,  
21 which would have flooded the reservoir back into British  
22 Columbia.

23 And to prevent that from happening, a  
24 treaty was -- an agreement was reached that was  
25 culminated in legislation in BC that allows BC Hydro to

1 sell electricity that would otherwise have been generated  
2 by the incremental generation at the High Ross Dam at a  
3 price approximating the generation cost of that High Ross  
4 Dam.

5 So we had a win-win situation, where we  
6 avoided flooding bottomland in British Columbia, and at  
7 the time, providing a new export market for what, at the  
8 time, was surplus electricity in British Columbia.

9 None of those volumes are particularly  
10 significant, particularly Hyder. If you've been to  
11 Hyder, Alaska, you can appreciate that it's not a  
12 metropolitan area.

13 MS. PATTI RAMAGE: It's hard not to make  
14 a Sarah Palin joke right now but...

15 MR. ROBERT MAYER: You could ask if you  
16 could see Russia from there.

17

18 (BRIEF PAUSE)

19

20 CONTINUED BY MS. PATTI RAMAGE:

21 MS. PATTI RAMAGE: Would I be correct  
22 that, while the BCUC reviews the revenues and energies  
23 delivered under those export contracts, the actual terms  
24 and conditions haven't been reviewed publicly?

25

1 (BRIEF PAUSE)

2

3 MR. PETER OSTERGAARD: I'm sorry. For  
4 the IPPs or for the --

5 MS. PATTI RAMAGE: This is for the --  
6 your two (2) -- your Alaska and Washington contracts.

7 MR. PETER OSTERGAARD: Oh.

8 MS. PATTI RAMAGE: Has the BCUC looked at  
9 the actual terms as opposed to the revenues and energies  
10 delivered?

11 MR. PETER OSTERGAARD: I can't answer  
12 that question with respect to the Hyder contract. With  
13 respect to the Skagit one, since it is in legislation, I  
14 would expect that the BCUC's involvement was minimal to  
15 nonexistent.

16 But I'm afraid I -- I can't -- I can't  
17 answer your question with full confidence, with a -- with  
18 a yes or a no.

19 MS. PATTI RAMAGE: Now Powerex's  
20 transactions, they're not regulated by the BCUC, correct?

21 MR. PETER OSTERGAARD: That's correct.  
22 Powerex is a non-regulated subsidiary.

23 MS. PATTI RAMAGE: So again, BCUC would  
24 see the energy transactions between BCUC -- or, sorry --  
25 between BC Hydro and Powerex and revenues received by

1 virtue of those transactions and its jurisdiction over BC  
2 Hydro, but it wouldn't see Powerex's contracts with third  
3 parties or any specific pricing information, correct?

4 MR. PETER OSTERGAARD: That's correct.

5 MS. PATTI RAMAGE: Now I heard you say  
6 Powerex's net income is -- net income between zero and  
7 200 million is essential -- is turned over to ratepayers  
8 as an offset to BC Hydro's revenue requirement?

9 MR. PETER OSTERGAARD: That's correct.  
10 Through the trade income deferral accounts, those  
11 revenues are evened out over time as one of the four (4)  
12 or five (5) deferral accounts that attempt to smooth  
13 rates for -- for ratepayers.

14 MS. PATTI RAMAGE: And just as a  
15 clarification, and -- you indicate at page 32 of your  
16 evidence, that the 200 million goes to the shareholder.  
17 But you also said BC Hydro -- any amount above 200  
18 million goes to the shareholder, but BC Hydro's the --  
19 it's a wholly owned sub of BC Hydro.

20 You meant any amount goes to the  
21 government or --

22 MR. PETER OSTERGAARD: I'm sorry, yes.  
23 The -- the -- any amount over 200 million would go to BC  
24 Hydro's shareholder, the government.

25 MS. PATTI RAMAGE: And I heard this

1 morning if Powerex loses money or -- that loss comes off  
2 payments to the province, and that would -- just to  
3 confirm, that would be dividends or power or water  
4 rentals?

5 MR. PETER OSTERGAARD: It would be  
6 dividends.

7 MS. PATTI RAMAGE: You've indicated in  
8 your evidence that Powerex's trade income has averaged in  
9 the range of \$160 to \$180 million, and this results in  
10 rates being reduced by approximately 5 to 6 percent,  
11 other than what they -- than what they would have been  
12 otherwise.

13 Is that correct?

14 MR. PETER OSTERGAARD: Yes.

15 MS. PATTI RAMAGE: And in a good year,  
16 such as '06/'07, when you were -- when water was  
17 plentiful and Powerex's net income was 259 million, 59  
18 million would go to the prov -- to the province, and the  
19 offset to revenue requirement would be limited to 200  
20 million, correct?

21 MR. PETER OSTERGAARD: That's correct.  
22 And the -- not necessarily because it was a good water  
23 year. It was a good trading year.

24 MS. PATTI RAMAGE: You've -- so you've  
25 caught me in my Manitoba Hydro mindset.

1 (BRIEF PAUSE)

2

3 MS. PATTI RAMAGE: Now, assuming BC  
4 Hydro's costs are relatively consistent as between, for  
5 example, the '06/'07 year -- which was an over 200  
6 million year -- and the typical year you'd described --  
7 that's the hundred and sixty (160) -- the \$100 million  
8 year -- the impact from Powerex's trade income is  
9 effectively capped as -- as being able to make rates  
10 approximately 6.5 percent lower than what they otherwise  
11 would have been -- at a -- 6.5 percent is what I  
12 calculate the \$200 million amount to result in, in terms  
13 of benefits to rates.

14 Does that sound about right?

15 MR. PETER OSTERGAARD: Yes, based on one  
16 (1) percentage point being about \$30 million of revenue  
17 requirements.

18 MS. PATTI RAMAGE: And on the other side  
19 of the coin, if we move from that two hundred dollar  
20 (\$200) -- \$200 million year and the next year is a bad  
21 trade year and there's no net income available for  
22 distribution to the ratepayers, or worse, a lot -- loss  
23 appears, the domestic rates won't increase by more than  
24 that same 6.5 percent, or they shouldn't?

25 MR. PETER OSTERGAARD: They shouldn't.

1 And because the revenues go into a trade income deferral  
2 account, the impact would likely be better than zero,  
3 depending on what's in that trade income deferral account  
4 and its amortization period, combined with the other  
5 deferral accounts that attempt to smooth rates.

6 MS. PATTI RAMAGE: So the existence of  
7 the \$200 million cap policy -- I'm using "policy" in a  
8 loose term -- it essentially acts as a collar for  
9 ratepayers?

10 MR. PETER OSTERGAARD: Yes, the \$200  
11 million is actually defined in a special direction as  
12 well. It's more than a policy.

13 MS. PATTI RAMAGE: Moving on to the --  
14 I'm calling it Service Extension Policy; I think it's TS-  
15 6 in your vernacular. A lot of questions I can check off  
16 my list -- have been asked so I'll.

17 But the one that I was wondering about is  
18 if you could advise the Board over what period of time  
19 that 150 MVAs would be calculated.

20 For example, if we had a customer who  
21 indicated it was expanding in 2008 at 100 MVAs, the next  
22 year, twenty-five (25), and the next year, twenty-five  
23 (25), is there a time limit that you would calculate  
24 their expansions?

25 MR. PETER OSTERGAARD: As I mentioned in

1 my evidence and once this morning, Tariff Supplement  
2 Number 6 is not a perfect document. And to my  
3 recollection, the existing Tariff Supplement Number 6  
4 does not contemplate that scenario.

5                   However, it's -- would seem apparent that  
6 if BC Hydro was in discussions with a new load of that  
7 size, it would become fairly apparent if they were gaming  
8 the -- the tariff in an attempt to avoid a higher  
9 contribution over time.

10

11                   (BRIEF PAUSE)

12

13                   MS. PATTI RAMAGE:    So would I take that  
14 to say that a stage introduction of load would be  
15 considered under -- under TS-6?

16                   MR. PETER OSTERGAARD:   I would expect  
17 once a new load over a period of two (2) or three (3)  
18 years hit that 150 MVA threshold, then they would be  
19 billed for -- in the same way they would be billed if it  
20 was all done at once. It would likely end up before the  
21 BCUC.

22                   MS. PATTI RAMAGE:    And I think I read  
23 this in your -- in your evidence somewhere, but you could  
24 help me that TS-6 does have some room for interpretation?  
25 Is that right?



1                   Is that the type of interpretation you'd  
2 be looking to?

3                   MR. PETER OSTERGAARD:   That sounds like a  
4 good example of the interpretation, based on my  
5 knowledge.  The one -- the example I used earlier was  
6 when two (2) or three (3) or four (4) new mining loads  
7 would be coming on at roughly the same time, which in  
8 aggregate would be above that 150 mega -- megavolt ampere  
9 threshold, but not at the individual level.

10                  MS. PATTI RAMAGE:   Thank you, Mr.  
11 Ostergaard.   Mr. Chair, it -- I'm looking at the time  
12 and it's about noon.  I may have one (1) or two (2)  
13 questions once I've had an opportunity to speak to Mr.  
14 Wiens about what we heard this morning.  But perhaps I  
15 could just come back on and advise the Board after -- I  
16 think we're hearing from presenters at 1:15 and then  
17 coming back up?

18                  I think Mr. Peters could pretty much count  
19 on coming on very shortly after that time.

20                  THE CHAIRPERSON:   Mr. Peters, just for  
21 advice, we had scheduled the presenters for 1:15.  It  
22 seemed to make some sense not to hold them up and let  
23 them come in now.  What do you think?

24                  We have got two (2) options.  We could  
25 carry on with Ms. Ramage and then go over to you and then

1 go to re-direct and then bring the presenters on, or we  
2 could interrupt the flow and have the presenters.

3 MR. BOB PETERS: I'm sorry. I am -- I  
4 suggest that 1:15, we hear from the presenters and I  
5 might look to my colleague opposite to provide us with an  
6 indication as to who those will be. But I say 1:15 would  
7 be the appropriate time.

8 MR. ROBERT MAYER: Are we going to have  
9 some time limits on that?

10 MR. BOB PETERS: None intended, but --  
11 well, I'll find out if their presentations are expected  
12 to be lengthy and let the Board know.

13 THE CHAIRPERSON: Okay, that is fine. We  
14 will see you back at 1:15.

15 Mr. Landry, do you know how many  
16 presenters there will be?

17 MR. JOHN LANDRY: I'm informed -- and I  
18 will check on this, but I believe there might be four  
19 (4).

20 THE CHAIRPERSON: Thank you.

21

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

23 --- Upon resuming at 1:16 p.m.

24

25 THE CHAIRPERSON: Okay, welcome back

1 everyone. We did schedule to have presentations at 1:15,  
2 so 1:16 is not too bad.

3 Mr. Landry, would you introduce the  
4 presenters, please?

5 MR. JOHN LANDRY: Mr. Chair, what I would  
6 like to do is hand it over to Mr. Turner, who has  
7 appeared before here -- the Board, and he will introduce  
8 himself and his fellow presenters, if that's okay with  
9 the Chair.

10 THE CHAIRPERSON: That is fine. Welcome  
11 back, Mr. Turner.

12

13 PRESENTATION BY MR. BILL TURNER:

14 MR. BILL TURNER: Mr. Chairman and  
15 members of the Board, as you are aware, my name is Bill  
16 Turner. I am the plant manager at Canexus in Brandon.  
17 And since November of 2000, I have been chairman of the  
18 MIPUG association, or group of members.

19 The members that we have currently in the  
20 group are ourselves, Canexus, Vale Inco, Hudson Bay  
21 Mining and Smelting, ERCO Worldwide, Enbridge, Tolko  
22 Manitoba, Koch Fertilizers, Griffin Canada, Gerdau  
23 Ameristeel, and TCPL Keystone.

24 With me today I have some of our members  
25 here that will also be speaking. Kaare Svidal from

1 Enbridge, Wayne Schroeder from Vale Inco, Dave So -- Dave  
2 Forsyth and I believe Mike Sarafolean from Gerdau will  
3 doing the speaking today.

4 We do have some written presentations that  
5 we will give out at the end of the -- at the end of the  
6 conversations. Two (2) of our members will be supplying  
7 that, so hopefully we can submit that at a later date.

8 I would like to thank you for the  
9 opportunity to make this presentation today. We would be  
10 happy to answer questions from the Board after the  
11 presentations.

12 MIPUG is an association of major  
13 industrial companies operating in Manitoba, and the --  
14 and has participated as an Intervenor in each of the  
15 Board's reviews of Hydro rates since 1988, as well as the  
16 Board's review of Hydro's major capital projects in 1990.

17 The purposes of the association is to work  
18 together on issues of common concern related to  
19 electricity supply and rates.

20 MIPUG members together account for over 25  
21 percent of Hydro's domestic sales. In total, MIPUG  
22 members employ over forty-five hundred (4,500) people,  
23 have a replacement value in their -- of their assets in  
24 Manitoba of over \$2 billion, and sell over 90 percent of  
25 the products we produce outside of the Province of

1 Manitoba.

2 MIPUG members' concerns are reflective of  
3 the size of their capital investments in the province,  
4 the long-term perspective essential for such investments,  
5 and the major stake that these investments typically have  
6 in continued large-scale purchases for Manitoba Hydro.

7 In past presentations before the PUB we  
8 have explained that the cost of power is very important  
9 to the operations and growth of member companies. MIPUG  
10 members compete in a global marketplace.

11 And low, cost-based electrical rates in  
12 Manitoba allow industry to remain competitive in this  
13 province by offsetting some of the geographic, climatic,  
14 and other disadvantages faced by industry in the  
15 province, including higher taxes and the US exchange  
16 rate.

17 Fair rates that reflect hydro costs and  
18 diligent attention to ensuring these costs are as low as  
19 possible while maintaining a financially healthy utility  
20 are an essential part of ensuring that Manitoba companies  
21 can conia -- can continue to survive and grow.

22 This is critical in maintaining and  
23 enhancing the long-term investments, jobs, and other  
24 benefits that come from having these operations in  
25 Manitoba. In past interventions, MIPUG members, as major

1 power users, have consistently been concerned with the  
2 need to have stability and predictability with regard to  
3 domestic rates for the long term, as well as the short  
4 term.

5 In MIPUG's view, this goal can be  
6 accomplished through strong regulatory oversight and  
7 approval of all rates charged by Manitoba Hydro.

8 Energy-Intensive Industrial Rate  
9 proposals: This is not the first Energy-Intensive Rate  
10 proposal the Board has received. As everyone's aware,  
11 MIPUG, as a group, expressed concern with aspects of what  
12 Hydro was proposing at the last GRA.

13 That proposal was withdrawn by Hydro to  
14 give themselves time to reflect on the information  
15 provided through the GRA process, have further  
16 discussions with large industrial customers, and consider  
17 further revisions to the proposal.

18 Through this August and in early  
19 September, Hydro met individually with large industrial  
20 customers to test its new proposal and to discuss  
21 individual customer concerns.

22 This proposal was also discussed with  
23 MIPUG and other Intervenors at a separate meeting held by  
24 Hydro on September the 11th, 2008. In many ways, the  
25 current proposal is better than most MIPUG members -- or

1 for most MIPUG members than the last version.

2                   One key improvement is the removal of  
3 economic exemptions, which presented industry with a  
4 great deal of uncertainty. This current proposal  
5 provides industry with some short-term certainty  
6 necessary for most members' five (5) year planning  
7 horizons.

8                   It also recognizes, although on -- only on  
9 a one (1) time basis, a key characteristic of individual  
10 power users, which is that load changes tend to occur in  
11 large chunks, rather than measured increments.

12                   The current proposal presents challenges  
13 for the MIPUG group and the impacts of the proposal, very  
14 substantially, depending on the particular customer  
15 characteristics. As a result, each member will have  
16 unique, company-specific perspectives.

17                   As an association, there is concern that  
18 this proposal is asking the Board to compromise on  
19 measures designed to protect all customers.

20                   The proposal could also discourage growth  
21 within Manitoba. While not all companies will be  
22 affected, for those that will, the potential adverse  
23 impacts of this rate will be felt by employees and their  
24 families, the predominantly rural and Northern  
25 communities where industrial users are located, and where

1 new industry tends to locate, and by the province as a  
2 whole. At this time, we are aware that the proposal  
3 could be much worse for industry.

4 Now I'm going to turn it over to Kaare  
5 Svidal from Enbridge.

6

7 PRESENTATION BY MR. KAARE SVIDAL:

8 MR. KAARE SVIDAL: Thank you, Bill. My  
9 name is Kaare Svidal. I work for Enbridge Pipelines as a  
10 manager of the Energy Management Group. My group  
11 procures both electric energy and electric infrastructure  
12 for Enbridge's pump stations and terminals in Canada and  
13 the United States.

14 Enbridge Pipelines operates a liquids  
15 pipeline system that carries crude oil and refined  
16 products from Western Canada to refineries and consumers  
17 in both Canada and the US.

18 Enbridge has been a customer of Manitoba  
19 Hydro for approximately forty-three (43) years, since it  
20 began purchasing electricity from Manitoba Hydro in 1965.

21 In my last presentation to the Board, I  
22 highlighted the contributions Enbridge makes to the  
23 provincial economy; these included economical and  
24 reliable fuel deliveries to Manitoba, transportation of  
25 Manitoba crude oil to market, and also being a long-term,



1 stable base load customer for forty-three (43) years.

2 Today I would like to express our concerns  
3 about the new energy intensive rate, from the perspective  
4 of a large industrial customer that buys power in over  
5 twenty-five (25) different jurisdictions across North  
6 America.

7 Although Enbridge views, already filed, as  
8 an improvement over the rate presented at the last  
9 hearing, we are still concerned about the rate structure,  
10 incremental power price signal or lack of price signal,  
11 the fairness of the rate, and the precedent it may be  
12 setting. I would like to briefly describe our concerns  
13 with the new filing in each of these areas.

14 First of all, the rate filed by Manitoba  
15 Hydro lacks any time-of-use, seasonal, or real time price  
16 signals. The marginal cost portion of the rate will be  
17 based on the average price of extra-provincial sales  
18 during the previous two (2) fiscal years.

19 The marginal cost is to be charged  
20 sometime during the year after a customer has consumed  
21 their baseline energy amount. This averaging calculation  
22 will severely mute the price signal to which Manitoba  
23 industrial customers could possibly respond.

24 Customers will never see prices above or  
25 below the average number of forty-seven dollars and

1 ninety cents (\$47.90) per megawatt hour in a proposed  
2 rate. When the prices are above this average number,  
3 customers could choose to reduce incremental consumption,  
4 and when prices are below, they could choose to increase  
5 consumption. This is true on both an hourly basis and a  
6 monthly or seasonal basis.

7           For example, under certain conditions, the  
8 pipeline can be price-responsive, both to hourly time-of-  
9 use prices and high monthly incremental energy prices.  
10 If the pipeline has extra capacity for a month, then we  
11 can and have responded to high on-peak prices by shifting  
12 oil pumping, and therefore consumption to low priced off-  
13 peak hours.

14           In months where the overall or around-the-  
15 clock price is high, we also have the option of using a  
16 drag reducing agent to reduce our consumption. Both load  
17 shifting and reducing load through drag reduction have  
18 moving economic thresholds based on the cost of power,  
19 the commodity type in the line and the throughput rate.

20           Efficient price signals encourage  
21 optimization and efficiency between the customers and the  
22 utilities' operations. In other jurisdictions where we  
23 buy power, we've structured power purchase agreements to  
24 capture efficiency between our system and the utilities'  
25 and then share the benefits. This resulting optimization

1 reduces costs for all.

2 Another concern is the marginal energy  
3 rate is not a true market price but rather Manitoba  
4 Hydro's view of what the market was. Customers will be  
5 unable to hedge any incremental consumption exposed to  
6 the Manitoba Hydro calculated price, because it is not  
7 based on a visible market, but rather a Manitoba Hydro  
8 retroactive calculation.

9 Enbridge and other customers will be  
10 forced to ride a wave of short-term marginal costs  
11 forever without any contract options. In other  
12 jurisdictions, where we are exposed to the market price,  
13 we can and have entered into long-term forward energy  
14 contracts to optimize our position. We have used our  
15 competitive advantage, as a long-term A-rated customer,  
16 to negotiate and lock in long-term contracts with terms  
17 and conditions, which reflect our business needs and risk  
18 profile.

19 Customers will be unable to use their  
20 competitive advantage to address price exposure  
21 contractually, because the incremental energy rate  
22 proposed by Manitoba Hydro is their hindsight view of  
23 price.

24 This contract optionality is also supported  
25 by the terms of the Manitoba Hydro export permit, EPP-

1 268, issued by the National Energy Board, which states:

2 "Manitoba Hydro shall not export energy  
3 without first giving an opportunity to  
4 purchase electricity on terms and  
5 conditions, as favourable as the terms  
6 and conditions which apply for the  
7 proposed exports."

8 The NEB licence stipulates that Canadian  
9 customers should be given a chance to buy the energy on a  
10 prospective basis and not on a short-term retroactive  
11 basis. It is only fair that Manitoba industrial  
12 customers exposed to the market have the same  
13 opportunities to hedge their power cost exposure as the  
14 export customers do.

15 Lastly, Enbridge has an overriding concern  
16 with the discriminatory nature of this rate and the  
17 precedent it may be setting. The proposed energy  
18 intensive rate arbitrarily exposes some customers to  
19 incremental or market pricing based on three (3) years of  
20 historical consumption.

21 We have been a customer for forty-three  
22 (43) years and have not suddenly moved to Manitoba to  
23 take advantage of low-cost embedded -- low embedded costs  
24 of hydro-electricity. Enbridge has long-term assets in  
25 the ground which have been under-utilized in the past.

1 Furthermore, economy of a scale also dictate the most  
2 efficient pipeline expansion is at existing stations and  
3 along existing right-of-ways. We are truly a captive  
4 customer of the Manitoba Hydro monopoly.

5           So in summary, Enbridge disagrees with a  
6 concept of the rate proposed by Manitoba Hydro, and has  
7 difficulty reconciling this rate with Manitoba Hydro's  
8 obligation to serve as the utility monopoly provider.  
9 Many of the twenty-five (25) jurisdictions Enbridge  
10 operates are faced with high incremental generation  
11 costs, compared to the existing rates.

12           To my knowledge not a single service  
13 provider has proposed a rate of this nature. The  
14 calculation of the baseline ignores the extent to which  
15 existing assets are under-utilized, as is arbitrarily  
16 based on a three (3) years previous consumption.

17           The proposed method for calculating the  
18 pricing above the baseline, mutes the price signal, has  
19 no contract options, and creates inefficiency. This  
20 energy intensive rate essentially flows through the high  
21 incremental prices of a deregulated environment without  
22 any of the resulting marketing efficiencies.

23           Thank you for your attention. I would be  
24 pleased to answer any questions.

25

1 (BRIEF PAUSE)

2

3 MR. KAARE SVIDAL: If there are no  
4 questions, I will pass it over to Wayne Schroeder of  
5 Inco.

6 Wayne...?

7 MR. ROBERT MAYER: I think we sort of  
8 assumed we'd let you all get it done and if we had  
9 questions we'd be doing that then.

10 MR. KAARE SVIDAL: Fine.

11 MR. ROBERT MAYER: But while Mr.  
12 Schroeder is here, would you mind telling everybody who  
13 you were employed by, because I don't know whether you  
14 got to go to Brazil when CVRD rebranded itself, but  
15 nobody around this room seems to get it right.

16

17 PRESENTATION BY MR. WAYNE SCHROEDER:

18 MR. WAYNE SCHROEDER: Okay. My name is  
19 Wayne Schroeder, I'm the Chief Power Engineer. I'm  
20 employed in Thompson, Manitoba for the corporation  
21 currently know as Vale Inco.

22 So that's a Canadian subsidiary of the  
23 worldwide company called Vale. We were purchased a few  
24 short years ago. And given that Inco has a long history,  
25 the rebranding leaves us as Vale Inco. It's a worldwide

1   nickle operation and proud to be here in Manitoba.

2                   I appreciate the opportunity to come and  
3   address everyone.  Vale and -- and myself are -- are  
4   pleased to be able to participate in an open transparent  
5   rate setting process, and we value the opportunity to  
6   speak at this forum.

7                   I'm not going to have a technical rate  
8   analysis.  I'm just going to tell you what's so for our  
9   company's perspective, within the context of the rate  
10  proposal.

11                  So we'll start with economic contribution  
12  and conditions.  Vale Inco Limited currently employees  
13  approximately one thousand six hundred and thirty (1,630)  
14  employees at its Manitoba operations based in Thompson.

15                  The Manitoba operations consists of two  
16  (2) operating mines, Thompson Mine and Birchtree Mine,  
17  where nickle ore is mined at depths greater than 3,000  
18  feet underground.  Once mined, the nickle ore is  
19  transported to service where it is processed at the  
20  operations milling, smelting, and refining facilities,  
21  with the end result being the manufacturing of a 99.9  
22  percent pure electrolytic nickle product.

23                  In addition to direct employment, the --  
24  Vale Inco has made a substantial contribution to the  
25  Manitoba economy through it's advancement of capital

1 projects over the past year. In 2008 Vale Inco invested  
2 214 million in capital upgrades to its surface plant  
3 operations. These improvements include the announcement  
4 of \$116 million dollar modernization of the Thompson  
5 Nickel Refinery, that will result in the installation of  
6 new robotic technology that will substantially improve  
7 working conditions at the plant and maintain high  
8 standards of product quality.

9           Nickle production is an economic activity  
10 that greatly benefits the Manitoba economy. The total  
11 value of nickle produced in Manitoba, by Vale Inco in  
12 2006 and 2007, to put it in perspective, was greater than  
13 the total combined value of wheat and canola produced in  
14 the province during those same two (2) years. That's  
15 just a context setting of how big nickle is in the  
16 market.

17           The unprecedented global economic crisis  
18 has greatly affected our operation's ability to operate  
19 competitively and efficiently, at least in the short-  
20 term. Nickle prices on world markets have plummeted on  
21 the belief that for nickle products will remain stagnant,  
22 as access to credit is curtailed across all world credit  
23 markets.

24           Vale Inco has responded to these  
25 conditions by implementing several immediate aggressive



1 measures to secure the long term viability of the  
2 company, including the implementation of a hiring freeze,  
3 launching a voluntary retirement program for eligible  
4 staff employees, and scaling back high cost, low-margin  
5 production.

6                   To date, we're fortunate that these  
7 production decisions have not deeply impacted Manitoba  
8 operations. However, our operations and our company as a  
9 whole continues to study whether other measures are  
10 necessary to adapt our production profile to market  
11 conditions.

12                   These economic conditions are a reminder  
13 that the nickel business is very much a cyclical business  
14 and one that relies on our continued ability to operate  
15 safely and sustainability and remain cash positive in all  
16 price cycles.

17                   Stability, in our major input costs,  
18 including the price of hydroelectric power, is  
19 fundamental to our success in growing and sustaining our  
20 business.

21                   As a contribution to Manitoba's economic  
22 prerogatives, I want to focus the presentation today on  
23 the evolving partnership that we've developed with  
24 Manitoba Hydro as we work together to develop a closer  
25 working relationship that mutually supports our firm's

1    respective business objectives.

2                   I am please that Vale Inco's Manitoba  
3    operations has the great distinction of being Manitoba  
4    Hydro's largest power smart customer, as verified through  
5    audited power smart savings -- their audit, not ours.

6                   We have achieved cumulative energy saving  
7    of 78 gigawatt hours between '99 and 2008, which  
8    represent approximately 7 1/2 percent of our annual load.  
9    These energy savings have contributed to Manitoba Hydro's  
10   ability to market and sell that energy to other North  
11   American markets; so it's a win-win situation.

12                   We have taken many steps over the years to  
13   incorporate the Power Smart Program into our planning  
14   around the implementation of capital projects and general  
15   maintenance and upgrades to our mines, plants, and  
16   routine improvements around our plant site.

17                   For example, in 2007 Vale Inco implemented  
18   a Parking Plug Controller Program to manage the flow of  
19   energy to the many parking plugs located around the  
20   Manitoba operations plant site. This resulted in saving  
21   in excess of 30 percent over uncontrolled plugs.

22                   In 2007 we also undertook a seven hundred  
23   and fifty thousand dollar (\$750,000) refinery insulation  
24   project, where we installed RHT40 Roxul board insulation  
25   over 7,300 square feet of our refinery wall and R20

1 insulation over 12,660 square feet covering our refinery  
2 roof.

3                   The total energy savings was 377,000  
4 kilowatt hours for the refinery portion of that project.  
5 So these are -- these are huge savings that we're working  
6 on.

7                   Manitoba Hydro has also a major  
8 contribution in our ongoing projects. For example, in  
9 2008 the installation of an electrostatic precipitator is  
10 an \$82 million environmental improvement that will result  
11 in a 90 percent reduction in atmospheric dust from 1972  
12 levels and a 70 percent reduction in workplace dust.

13                   For this project, we were able to source a  
14 high-efficiency dryer that reduced the energy requirement  
15 for the project through the Power Smart Program. This is  
16 a great example of how Manitoba Hydro power has been a  
17 major contribution towards our ability to implement  
18 leading technology to assist in reducing our  
19 environmental footprint and work towards achieving a more  
20 efficient operation.

21                   We would also like the Board to consider  
22 the contribution that the supply of reliable, cost-based  
23 hydroelectric power makes to the development of Northern  
24 Manitoba through the continuation of our mining-related  
25 activities.

1                   Vale Inco is proud to be working  
2 cooperatively with our neighbouring First Nation  
3 communities to work towards increasing First Nation  
4 representeta -- representation in our workforce from its  
5 current estimated level of 15 percent.

6                   We have recently partnered with  
7 Nisichawayasihk Cree Nation -- my apologies if the  
8 pronunciation is poor, okay -- at Nelson House to  
9 establish pre-employment placements in conjunction with  
10 University College of the North's pre-electrical -- or  
11 pre-employment program taught at Atoskiwin Training and  
12 Employment Centre.

13                   Four (4) of the six (6) students that  
14 received work placements at Vale Inco are now employed  
15 permanently as full-time employees in our economy.

16                   We've also established a Senior Years  
17 Apprenticeship Option Program at Thompsons R.D. Parker  
18 Collegiate that allows students to earn accreditation  
19 towards their Level 1 apprenticeship certification and  
20 credit towards their high school graduation by  
21 participating in work placements at Vale Inco.

22                   The creation of this program is one (1) of  
23 the reasons that the province of Manitoba's  
24 apprenticeship branch nominated Vale Inco as employer of  
25 the year for the 2008 apprenticeship awards of

1 distinction. We are leading partners, along with  
2 Manitoba Hydro, in the Northern Manitoba Sector Council,  
3 an agency dedicated to promoting training partnerships to  
4 ensure the northern people are trained for northern jobs.

5 We're currently working through the  
6 council to establish introduction to trades training  
7 courses in northern Manitoba communities, to give young  
8 people sufficient industrial experience to qualify as  
9 candidates for employment at Vale Inco in future.

10 We hope that the above points clearly  
11 distinguish that the cost based Manitoba Hydro electric  
12 power is being used to make a significant contribution to  
13 Manitoba's overall economy, but also towards the imple --  
14 implementation of new projects initiated with a name to  
15 make our operations leaders in safety and sustainability.  
16 And the sustainability of our operations in Thompson will  
17 continue to return benefits in the form of direct  
18 employment to the next generation of northern youth.

19 We understand that the latest Energy  
20 Intensive Industrial Rate proposal filed by Manitoba  
21 Hydro draws attention to the fact that unrestricted  
22 access to electrical load by some users may threaten the  
23 rate structures that have resulted in among the lowest  
24 posted Hydro electric rates in North America.

25 Vale Inco concurs that if that is

1 considered a -- a threat, then measures may be required  
2 to prevent unrestricted access. And what that would be  
3 would be the determin -- determination of the Board. Do  
4 you see this as a credible threat? If so, it should be  
5 up to the Board to determine if this meets that  
6 threshold.

7                   Vale Inco supports the concept of  
8 providing access to additional cost-based power supply,  
9 based on incremental growth. With respect to the growth  
10 targets that are being provided with the current major  
11 energy load rate proposal, we are hopeful that the  
12 targets will not affect our future -- future growth  
13 prospects.

14                   Given that we've been major recipients of  
15 credits through the Power Smart Program, we believe that  
16 the regulator framework for hydroelectric power in  
17 Manitoba must recognize work that firms have undertaken  
18 to proactively manage their energy load. We also support  
19 rate structures that are simple to understand, and ad --  
20 and administer.

21                   As a result, we prefer Manitoba -- we  
22 prefer the current major energy load proposal as an  
23 alterno -- as an alternative to instruments such as  
24 inverted rates and time-of-use rates, which, in our  
25 process, would give us a -- a bigger hurdle to try and

1 work our process within those rate structures.

2 We thank the Board for their consideration  
3 of our position, and welcome the opportunity to provide  
4 an update on our business. Thank you.

5 THE CHAIRPERSON: Thank you.

6

7 PRESENTATION BY MR. MIKE SARAFOLEAN:

8 MR. MIKE SARAFOLEAN: Good afternoon. My  
9 name is Mike Sarafolean. I also work for a -- a  
10 Brazilian company, Gerdau Ameristeel. Our headquarters  
11 are also in Sao -- in Brazil -- Sao Paulo, Brazil. And  
12 we are pleased to be here today and make comments on  
13 Manitoba Hydro's filing with the Board in compliance with  
14 the Board's Order, 116/'08.

15 I am Gerdau's Regional Energy Manager, and  
16 I have been handling energy issues for almost twenty (20)  
17 years. I handle energy for thirteen (13) steel mills in  
18 North America. I am -- we have a steel mill in St. Paul,  
19 Minnesota.

20 I'm currently the chairman of the  
21 Minnesota Chamber of Commerce Energy Committee. We're  
22 Xcel Energy's second largest customer in the -- in the --  
23 in Minnesota. And we appreciate the value of Manitoba  
24 Hydro's product and reliability on this side of the  
25 boarder, and on the other side of the boarder. We're

1 very pleased with -- with the relationship.

2                   Gerdau Steel Mill in Selkirk is one (1) of  
3 the largest manufactures in the province. We are one of  
4 the largest shippers in the region, averaging over one  
5 hundred and forty (140) truckloads per week.

6                   Over the years, Gerdau has also attracted  
7 several large what we call downstream manufacturers to  
8 the province, creating even more manufacturing jobs.

9                   Monteferro America, in Birds Hill and  
10 Steinbach, Terra Cotta Industries in Selkirk, Black Cat  
11 Blades in Selkirk, Bradley Steel Processors in Winnipeg,  
12 are just some of the businesses that have located to be  
13 near our steel mill, to take our product, and -- and add  
14 value to it, and ship it, in many cases, all the around  
15 the world.

16                   In addition to Gerdau's five hundred and  
17 seventy (570) employees at Selkirk, Gerdau also employs  
18 fifty (50) full-time equivalents in project work through  
19 local contractors. There are also many Winnipeg  
20 industries that support Gerdau, thereby creating many  
21 collateral jobs. Since 1995 the company has invested  
22 \$125 million in -- in Manitoba.

23                   Gerdau is the largest recycler in the  
24 province, processing scrap metal collected from --  
25 throughout the region. We are extremely efficient at



1 what we do, and we do it in an environmentally-  
2 responsible manner. Making steel from scrap metal  
3 greatly reduces the amount of energy and emissions needed  
4 to meet a ton of new demand from an integrated producer  
5 making steel from iron ore. Over 70 percent of the  
6 energy and over 60 percent of the emissions needed to  
7 create a new ton of steel from ore is already embedded in  
8 the scrap metal itself.

9                   We, as -- as Mr. Turner explained, we're a  
10 member of -- of MIPUG, and we're a member of many groups  
11 through -- similar-type user groups in the -- in the --  
12 in the North American and the US. And there's always  
13 differen -- differing opinions within the groups about  
14 this or about that.

15                   And we have a few issues that present  
16 differing viewpoint, perhaps, than some of the comments  
17 filed by Patrick Bowman and Mr. Ostergaard.

18                   Gerdau does support the positions taken by  
19 Manitoba Hydro that will encourage reasonable industrial  
20 growth allowances that preserve a determinable level of  
21 heritage rates as company grow and create jobs in  
22 Manitoba.

23                   Steel is an energy- and capital-intensive  
24 business. As with any investment decision, Gerdau's  
25 management must consider the long-term costs of doing

1 business. With regard to steel manufacturing, electric -  
2 - electricity costs are second only to our scrap steel  
3 costs and are important cont -- contributor to a  
4 competitive cost structure. Low, stable, reliable  
5 electricity is essential to Gerdau's operations in  
6 Manitoba.

7                   While energy costs are favourable, there  
8 are other cost ailments that are not as favourable.  
9 Lower priced electricity helps offset other manufacturing  
10 costs. Among all our mills in North America, the -- the  
11 location here is the second-highest cost to produce  
12 steel. And low-cost energy is already factored into that  
13 number. So we're very, very concerned about seeing  
14 energy rates change and then, as -- as one of the other  
15 presenters said, change unpredictably.

16                   Parties to the rate discussion have  
17 advanced several rate concepts that I'd like to discuss.

18                   Energy-Intensive Rates, Gerdau also  
19 supports a consideration that there may be such a thing  
20 as uneconomic load growth. Some types of loads may  
21 provide less enomic -- economic benefits to the province  
22 than others. Some create more -- many more jobs. Jobs  
23 create solid economic activity for the province.

24                   The New York Power Authority has  
25 recognized this through their hydro earmark for megawatts

1 for jobs, where they have over 400 megawatts just  
2 dedicated to companies that -- that retain and grow jobs.

3 After all, we recognize -- as we as  
4 ratepayers don't want to build new assets that chase  
5 loads that don't provide for meaningful job creation,  
6 Gerdau too benefits from the export sale revenue and  
7 throughout the cost-based initiatives in generation and  
8 transmission -- the thoughtful cost-based generation --  
9 investments.

10 At the same time, Gerdau also benefits, as  
11 the province does, much more from an expanded job base  
12 that creates much more economic activity to the province  
13 than just exported power.

14 The resultant increase in generation could  
15 lead to the BC situation described in Mr. Ostergaard,  
16 where costly new generation would be needed to sustain  
17 loads that were marginally contributed to the BC economy,  
18 because they were energy versus job-intensive.

19 Gerdau has thorough -- thoroughly  
20 analysed, and we can work within Manitoba Hydro's rate  
21 proposals, which allow for sufficient load growth, to  
22 fully utilize the installed production capacity at our  
23 Selkirk facility. We can still grow the plant and -- but  
24 that would take more energy; yet, at the same time, we  
25 think the proposal would allow us to do that

1 economically.

2           Inverted rates, they may make sense for  
3 residential rates, yet they do not allow for load growth  
4 and manufacturing processes. There's a fundamental  
5 difference as we look at some of these energy-efficient  
6 opportunities and the things we speak of to recognize  
7 we're dealing with -- with industrial processes where,  
8 just by the nature of the -- of the process, it can't be  
9 DSM'd away.

10           Inverted rates essentially cap or penalize  
11 additional production, rather than encourage full  
12 utilization of our -- our installed capacity. This  
13 provides a disincentive for investment and expansion by  
14 raising the cost of new production.

15           Time-of-use pricing, Gerdau does not  
16 support time-of-use pricing. Prices that reflect the  
17 opportunity of costs of export market -- market sales are  
18 not appropriate to the retention or creation of jobs in  
19 Manitoba.

20           Steel operations run seven by twenty-four  
21 (7x24), with little ability to shift to off-peak hours,  
22 minimizing the value of time-of-use rates. We're already  
23 operating off-peak hours.

24           In addition, regions where Gerdau  
25 currently operates under the most complex form of time-

1 of-use rates, real-time pricing, our operations run less  
2 efficiently due to the impact of starting and stopping  
3 what should be continuous processes.

4           If adopted, time-of-use rates need to be  
5 revenue neutral for the customer that run currently seven  
6 by twenty-four (7x24). Otherwise, time-of-use would  
7 increase costs for job providers. Increased costs cannot  
8 be tolerated by global manufacturers.

9           I'm not sure how the other party at the  
10 table with Brazilian owner operates, yet I can tell you  
11 that our Brazilian owners track every mill that they own  
12 around the world -- and some forty (40) of them -- and  
13 know precisely the cost of operation and where products  
14 should come from.

15           Recent rate -- rate increases have been  
16 substantial. Manitoba energy rates have increased  
17 substantially over the last few years. I believe that  
18 from 1995 to 2004, the energy rate was pretty well locked  
19 in. Since 2004, the rate has gone up by over 20 percent.

20           Manitoba Hydro began this rate case with a  
21 2.9 percent increase request. The MPUB allowed a 5  
22 percent increase earlier this year and proposes another 4  
23 percent next April.

24           In light of the economic downturn, Gerdau  
25 recommends that the MPUB eliminate, or -- or at a

1 minimum, reduce the planned increase for April. During  
2 these difficult economic times, costs have to be reduced,  
3 not increased, as it cannot be passed along to customers.

4 Summarization, in summary, the regu --  
5 regulations should achieve firm, low cost, stable power  
6 rates that are necessary to maintain investment and  
7 produce jobs in the -- in the province. Rate stability  
8 is one of Gerdau's key investment inputs when making  
9 long-term investment decisions.

10 Rate designs that increase costs for new -  
11 - or for incremental or new manufacturing loads in the  
12 province will, unfortunately, provide a clear signal to -  
13 - to Gerdau and other manufacturers to invest outside the  
14 profit -- province when economically practical to do so.

15 The time-of-use rates will not improve,  
16 but degrade our efficiency and add to our cost if they  
17 are not revenue neutral to our operations. Low  
18 electricity must be viewed as a means to achieve and  
19 retain economic growth in the province.

20 Thank you very much.

21 THE CHAIRPERSON: Thank you very much.  
22 Thank you very much, gentlemen. For myself, you have  
23 said a number of things that require some thought and  
24 pondering on.

25 I cannot think of any immediate questions.

1 I imagine each one of your companies have been affected  
2 by the recent downturn in commodity prices and world  
3 sales.

4 Do you have anything?

5 MR. ROBERT MAYER: I find it -- I find it  
6 interesting. I -- I note that of the three (3) of you  
7 who mentioned time-of-use rates, the two (2) operations  
8 that run twenty-four (24) hours a day could make no use  
9 of them.

10 Enbridge indicates that it could make --  
11 it could benefit from the use of time-of-use rates. I'd  
12 be interested in knowing how you would feel if the Board,  
13 at some point in time, ordered a time-of-use rate option  
14 that would be available, as I am told it is available in  
15 British Columbia.

16 And, of course, I don't know what -- what  
17 -- sorry.

18 MR. JOHN LANDRY: Mr. Mayer, if I may. I  
19 apologize, as you know, for interrupting, but Mr. Turner  
20 still did have a -- a presentation --

21 MR. ROBERT MAYER: Oh, sorry.

22 MR. JOHN LANDRY: -- in relation to  
23 Canexus, so -- yeah, we'll hear from Canexus. You were  
24 probably wondering why you didn't hear about time-of-use  
25 from Canexus. Well -- so...

1 THE CHAIRPERSON: Mr. Turner...?

2

3 PRESENTATION BY MR. BILL TURNER:

4 MR. BILL TURNER: Mr. Mayer, I'll let you  
5 know how we could use time-use rates.

6 Canexus uses an electrolytic process to  
7 produce sodium chlorate -- we all -- I think we're aware  
8 of that from past presentations -- which is used to  
9 bleach wood pulp.

10 The process requires considerable electro  
11 -- electrical energy. And in fact, approximately 60  
12 percent of our manufacturing cost is the cost of  
13 electricity; approximately, in our case, \$48 million a  
14 year.

15 Reliable, cost-effective electrical energy  
16 is one of the most critical factors in our industry.  
17 Canexus exports all of its products outside Manitoba, and  
18 approximately 95 percent of it goes to the United States.

19 The North American market for our product  
20 is extremely com -- competitive. Canexus operates one  
21 (1) plant in each of BC, Alberta, Manitoba, Quebec, and,  
22 yes, even Brazil.

23 In the last six (6) years, Canexus has  
24 shut down two (2) of our operating facilities, not only  
25 due to the high power pricing, but insta -- or unstable



1 power rates in those jurisdictions, leaving numerous  
2 families either without employment or requiring moves to  
3 other jurisdictions.

4 In times when the industry is not  
5 operating at 100 percent capacity, the plants with the  
6 lowest cost of production run full load, and the plants  
7 with the highest cost of production are cut back.

8 Our Brandon plant competes with our  
9 external com -- competitors and with other Canexus sodium  
10 chlorate plants. The competitiveness of any sodium  
11 chlorate producer can be assessed easily with only three  
12 (3) key considerations: power price stability and  
13 availability, salt price and availability and  
14 transportation to markets.

15 And as I mentioned, approximately 95  
16 percent of our product goes into what I'll call the south  
17 central eastern US.

18 Of the three (3) factors, power is the  
19 most important because of the large amounts of power  
20 required for electrolysis. Electricity is a feed stock,  
21 just like natural gas is to the fertilizer industry.  
22 Given the importance of electricity to our production  
23 process, efficiency is an important consideration.

24 Canexus is one (1) of Manitoba Hydro's  
25 largest DSM participants, offering about 160 megawatts a

1 load that can be curtailed by Manitoba Hydro on very  
2 short notice. This program was developed over a number  
3 of years by working closely with Hydro as a participant  
4 in the Curtailable Rates Monitoring Committee.

5 Through solid communications this  
6 committee addressed the issues and concerns of both  
7 parties quickly and amicably and the program is now one  
8 of the most successful conservation programs Hydro  
9 operates, providing benefits to both Canexus and all of  
10 the other customers on -- on the Hydro system.

11 Canexus appreciates working with Manitoba  
12 Hydro cooperatively in this manner. Canexus has been  
13 producing sodium chlorate in Brandon since 1968. The  
14 plant started at an annual rate of 12,000 tonnes. In  
15 2008, with its ability to manufacture in excess of  
16 295,000 tonnes per year, the Brandon plant is now the  
17 largest sodium chlorate plant in the world. This  
18 achievement is due to several upgrades and incremental  
19 expansion since 1968, as well as a recent major Phase 7 -  
20 - what we call a major Phase 7 expansion.

21 In undertaking the major expansion since  
22 2000, Canexus relied upon commitments made by the  
23 Manitoba Government that rates in Manitoba for large  
24 industrial power users would continue to remain fair,  
25 stable, and power costs would remain as low as possible.

1                   In particular, Canexus was assured by  
2 Minister Salenger in 2000 that quote/unquote:

3                   "Beyond rate increase -- issues [pardon  
4 me] this government is also committed  
5 to providing a business environment  
6 that encourages the establishment and  
7 expansion of hydro intensive industries  
8 in Manitoba. Canexus was also assured  
9 that with regard to the issues of  
10 fairness among competitors, Canexus  
11 would not be disadvantaged. And should  
12 the policy change in the next five (5)  
13 years, CXY [at the time, which is now  
14 Canexus] will be treated as favourable  
15 as any other customer in the same  
16 business."

17                   Since 2000 Canexus has undergone three (3)  
18 major expansions, that is with the total cost of a little  
19 over \$200 million dollars. The 2004 expansion project  
20 was undertaken after the Canexus plant in Louisiana was  
21 shut down. That it was a major commitment of capital,  
22 dollars and time.

23                   The cost of that expansion was  
24 approximately \$55 million dollars, which increased the  
25 Brandon capacity by 70,000 tonnes per year. In a place

1 the size of Brandon you can imagine the significant  
2 economic impact of that expansion.

3           The expansion decision made by Canexus  
4 Board in 2004 involved a phased expansion approach.  
5 Pursuant to this corporate decision, the plant has  
6 undergone a series of phased expansion since then and has  
7 recently completed the Phase 7 expansion.

8           As determined by market share and power  
9 pricing, the plant could further expand due to initially  
10 installing the front-end capacity expansion, and at that  
11 time we forego -- foregone the -- the back-end expansion  
12 and decided to spend the additional capital to improve,  
13 expand -- or the existing plant efficiencies in order to  
14 capture future power smart credits.

15           Any expansion of operations is a major  
16 commitment of resources, including people, time and  
17 money. To justify such commitments there has to be some  
18 level of certainty as to costs, both now and in the  
19 future. Manitoba -- Manitoba's history of very stable  
20 and cost-effective power rates has been a key factor in  
21 convincing our Board of Directors, both in 2004 and in  
22 early years, to invest and expand in Manitoba.

23           Most of the most recent expansions,  
24 including the Board of Directors decision in 2004 were  
25 awarded to the Brandon facility, based on this assessment

1 and due in part to the high cost of electrical energy in  
2 the US. This led to the relocation of the Louisiana  
3 plant in Brandon in 2004.

4           However, at the time that -- that  
5 expansion decision, there was no suggestion from Manitoba  
6 Hydro or otherwise, that the rules would change. Canexus  
7 only heard of the cancellation of the Service Extension  
8 Policy and the possibility of a new additional charges or  
9 rates, well after the initial capital commitments were  
10 already made.

11           Low prices do not on their own draw  
12 industry to a jurisdiction. Low prices can become very  
13 high, very quickly, if there is instability in the  
14 principles and systems used to set rates. We have seen  
15 this in spades in Alberta over the past several years.

16           After Alberta changed how it sets rates,  
17 one (1) of our lowest costs plants quickly become one (1)  
18 of the highest cost operations within our company.

19           Rates do matter but confidence in the  
20 long-term regulation of pricing systems is also critical  
21 to any business. When that confidence is eroded, it  
22 affects all industrial customers, not just those that use  
23 electricity as a feedstock.

24           Canexus requires capacity increases due to  
25 changing markets and increase in market share and the

1 possibility of -- of further rationalization of our old -  
2 - older facilities. However, increasing uncertainty,  
3 with regard to the continued stability of hydro pricing  
4 over the past several years has caused us to seriously  
5 reevaluate our options in order to justify further  
6 expansion of the Brandon facility.

7                   For each of its major expansions since  
8 2000, Canexus has worked with and sought advice and  
9 assistance from Manitoba Hydro to insure that the most  
10 cost -- the most efficient lighting in motor-driven pumps  
11 are installed that would allow the plant to operate at  
12 peak efficiency. With Hydro's assistance, the following  
13 efficiency measures have been implemented:

14                   Cooling tower fans: Canexus currently  
15 operates four (4) large cooling tower systems. Hydro  
16 services have been of assistance in the design and  
17 utilization of variable speed drives on our cooling  
18 towers to lower our energy load during cooler weather.  
19 While the two (2) newest cooling towers had variable  
20 speed drives included in the design stage, the -- the  
21 original units have also been converted to a -- more  
22 efficient variable speed units.

23                   Compressed air scoping: Canexus operates  
24 four (4) air compressors that convey product from the  
25 processing plant to a railcar loading facility.

1 Initially, some units were continually running unloaded  
2 with waste -- which wasted energy. With the assistance  
3 of Manitoba Hydro, we reprogrammed the loading of three  
4 (3) of these units. Since that time, two (2) units have  
5 been taken off-line and are only utilized in an emergency  
6 or as increased demand warrants additional air capacity.

7           Current density changes: This is the most  
8 recent one that we've done. To increase efficiency, we  
9 modified the cells in the plant relocated from Louisiana.  
10 While this added considerable cost and risk to the  
11 Canexus recent expansion project, it allowed Canexus to  
12 produce an additional 23,000 tonnes of product using its  
13 current capacity, in effect, increasing the GDP for  
14 Manitoba without any additional energy requirements.

15           As a result of all these efficiency  
16 initiatives, our total plant electrical efficiency has  
17 indeed improved. While all these changes fall within the  
18 Power Smart initiative, we firmly believe that, as an  
19 industry, we are responsible to pay our own way and have  
20 -- we have never requested financial support from Hydro  
21 for any of the above initiatives.

22           Well after the decision was made in 2004  
23 by our Board to undertake the phased expansion that we're  
24 in the process of completing, uncertainty regarding the  
25 stability of future electrical rates in Manitoba required

1 that we dramatically alter the design and staging of our  
2 most recent Phase 7 expansion. This uncertainty started  
3 in 2005, after we found out that Hydro's unilateral  
4 suspension -- the Service Extension Policy and --  
5 continued with the development of Hydro's Energy  
6 Intensive Industrial Rate proposal included in the 2008  
7 GRA.

8 I must be talking longer than everybody  
9 else.

10 While Canexus had already committed to its  
11 expansion prior to hearing about the proposed Energy  
12 Intensive Industry Rate in the Spring of 2007, upon  
13 hearing about the new rate, we reevaluated our initial  
14 design, in order to improve process efficiency and make  
15 it a more viable project.

16 We commissioned our design team to see if  
17 the design of expansion could be enhanced to allow the  
18 plant to operate at a higher electrical efficiency. And  
19 at a cost of 3.75 million, we changed the accepted design  
20 and rebuilt one (1) plant to the new design. This  
21 decision to alter the design was not without risk. Had  
22 it failed, we would have been in a very costly  
23 alternative at that point in time.

24 The most recent Phase 7 expansion  
25 succeeded in increasing plant capacity by approximately 9



1 percent with no increase in electrical consumption.  
2 However, at a cost of approximately 50 million it only  
3 provided half the production output, compared to previous  
4 expansions with the same capital costs.

5           Changes in design to increase efficiency  
6 allowed for approximately 23,000 tonnes per year of  
7 increased production at the plant. However, additional  
8 capital expenditures will be required to achieve the  
9 plant's stability necessa -- necessary to realize the  
10 balance of the additional 10,000 tonnes per year of  
11 production. The additional capacity of the modified  
12 design to achieve the full 33,000 tonne expansion  
13 decision made in 2004 was expected to be derived from the  
14 Power Smart initiatives.

15           Throughout this design process, I have  
16 kept Manitoba Hydro appraised of our plans, and sat down  
17 with their representatives to review the design and  
18 changes in design. In April of 2007 when the design  
19 changed to allow the plant to operate at higher  
20 efficiency was explained to Manitoba Hydro  
21 representatives, they indicated to me that the  
22 modification would be a true Power Smart initiative that  
23 -- and that I should get Hydro involved in the expansion  
24 to have it confirmed as such.

25           Hydro representatives were fully aware

1 that it would take time to complete the proposed  
2 expansion and that efficiency measures would be completed  
3 to -- and started prior to December 31st, 2007, but not  
4 complete until approximately late 2008.

5 At this time, Manitoba Hydro also led me  
6 to believe that as a Power Smart initiative, it would be  
7 included in the baseline set under Hydro's Energy  
8 Intensive Rate proposal. Again, I told Hydro that we, as  
9 an industry, will pay our own way as we have an internal  
10 obligation to save energy as well.

11 Believing that Hydro was on board with  
12 Canexus claiming all the Power Smart credits for these  
13 efficiency improvements, Canexus' assessment was that if  
14 it achieved all of the Power Smart credits discussed with  
15 Hydro during the design planning over the 2007 project,  
16 we would have been able to produce the full 33,000 tonnes  
17 from the capital expansion at heritage rates.

18 At no time was I made aware that Hydro  
19 specifically did not intend for Canexus to receive the  
20 full benefit of these Power Smart measures. I went into  
21 the G -- 2008 GRA believing that the Canexus baseline  
22 would include all of the Power Smart credits achieved,  
23 due to the efficiency measures specifically undertaken in  
24 the Phase 7 expansion.

25 During that hearing, I became concerned

1 that because expansion would not be complete until late  
2 2008, after the December 31st, 2007, date included in the  
3 original rate proposal, the Power Smart measures included  
4 in expansion may not be included in the Canexus baseline.  
5 I contacted rep -- representatives at Hydro and I was  
6 assured that I would be able to claim all of the credits  
7 for the Phase 7 efficiency improvements once they were  
8 confirmed by Hydro.

9                   The December 31st, 2007, cut-off date  
10 provision has been removed from the most recent proposal.  
11 However, the 1,500 gigawatt cap accomplishes exactly the  
12 same thing. Canexus cannot achieve the full Power Smart  
13 credits owing from its most recent expansion, and part of  
14 the Phase 7 expansion would be then at marginal based  
15 rates.

16                   The current Energy Intensive Industry Rate  
17 proposal makes it very clear that Canexus is being  
18 singled out for discriminatory treatment. Hydro has  
19 noted that the 1,500 gigs cap was specifically  
20 established to be at a level slightly above the largest  
21 energy consuming customer, and everyone knows that  
22 elephant is actually Canexus.

23                   Hydro has noted that the 1,500 gigawatt  
24 cap is intended to constrain unlimited growth in embedded  
25 rates, while recognizing the investments and

1 contributions existing companies have made to the  
2 community and to the province. While Hydro argues this is  
3 intended to balance the recognition of preexisting loads  
4 established under previous rate structures, with a need  
5 to limit inequities between smaller and larger companies  
6 under the new rate structure, from Canesus -- from  
7 Canexus' perspective, the current approach creates  
8 inequities through specifically targeting and penalizing  
9 growth in -- in one (1) company.

10           While most other customers will, over the  
11 next five (5) years, be forwarded the opportunity to grow  
12 at embedded cost rates, any further Canexus growth will  
13 be subject to marginal cost rates. Manitoba Hydro has  
14 stated on record that the 1,500 gig cap was also designed  
15 to ensure that part of Canexus recent expansion would be  
16 exposed to marginal rates, and would not be sheltered by  
17 the Power Smart initiatives undertaken with regard to  
18 that expansion.

19           Not only is Canexus not allowed to grow  
20 incrementally at embedded cost rates, as every other  
21 existing company in the province is able to grow over the  
22 next five (5) years, unlike every other company exposed  
23 to the rate, Canexus cannot fully use all of the current  
24 Power Smart credits.

25           This approach is not only fundamentally

1 unfair, it does not reflect the assurances I have been  
2 given by Manitoba Hydro representatives. Since we worked  
3 with Manitoba Hydro to create these Power Smart  
4 initiatives, it is troubling and very disappointing that  
5 efficiency measures implemented by us in good faith and  
6 undertaken at additional cost and risk to Canexus and  
7 with the understanding that these would be considered  
8 true Power Smart initiatives, they're not being  
9 recognized as such in this proposal.

10           The use of the cap to exclude the Canexus  
11 Power Smart credits is, in our view, not only  
12 discriminatory, it flies in the face of what Canexus has  
13 relied upon in proceeding with its most recently inst --  
14 investments, in the context of its good faith discussions  
15 with Manitoba Hydro.

16           In our opinion, there should never be a  
17 cap that effectively discriminates against one (1)  
18 customer in Manitoba, by not allowing them to grow any  
19 further at heritage rates in the same way that other  
20 customers, subject to this new rate, are allowed to grow.

21  
22           However, aside from the cap discrimination  
23 for future growth, the initial baseline establishing  
24 power to be charged at heritage rates, must be set using  
25 the same rules for everyone to reflect where we are

1 today, which means if Power Smart initiatives are  
2 completed, the equivalent of the Power Smart energy  
3 should be added to the baseline that would otherwise  
4 apply it based all considerations set out in the Hydro  
5 proposal. There should be the standard philosophy  
6 applied to all customers, not just Canexus.

7                   Canexus is one (1) company that could  
8 benefit from load shifting or time-of-use rates, so, yes,  
9 there is another one (1), Mr. Mayer. It is a --  
10 disappointing to me that the present proposal does not  
11 include any time-of-use component, and the Manitoba Hydro  
12 has not appeared to have seriously looked at this type of  
13 rate solution, prior to advancing this proposal to the  
14 PUB.

15                   What is very frustrating is that if there  
16 were a way to work cooperatively with Hydro to address  
17 our load needs, rather than the way things have gone over  
18 the last little while, we think that there are real  
19 opportunities to do things that could benefit both  
20 Canexus and Hydro, such as making substantial use of the  
21 optic power and load shifting. Further, we also believe  
22 that there may be possible ways for both of us to benefit  
23 from the substantial hydrogen that is currently vented at  
24 our plant.

25                   Circumstances are a lot different than

1 they were when we worked together with Hydro to develop  
2 the Curtailable Rate Program, which was a positive  
3 benefit to both us and Hydro.

4           Just a comment on the hydrogen issue: We  
5 have worked with Manitoba Hydro and the government fairly  
6 in-depth over the last four (4) years. It's kind of died  
7 off a bit now, but internally within Canexus we have two  
8 (2) situations that we're looking at to utilize the --  
9 the venting hydrogen that we have currently.

10           Canexus may not be the biggest company in  
11 Manitoba, but we have a quality committed workforce, that  
12 due to our most recent expansion, has grown to seventy-  
13 three (73) people. These are skilled workers with well  
14 paying jobs who play vital roles in the Brandon  
15 community.

16           Since locating in Brandon, both Canexus  
17 and its employees have been actively involved in  
18 community life and have maintained close ties to the  
19 Brandon community. Canexus has been instrumental in  
20 assisting to raise funds in the community, making the  
21 following major donations to the following community  
22 projects in advance.

23           And this is just a few of them: The  
24 Brandon Emergency Support Team, Canadian Red Cross, The  
25 Riverbank Discovery Centre, Safer Communities, United Way

1 Employee Matching, Brandon Area Community Foundation,  
2 Brandon Westman Dreams For Kids, to name a few.

3                   We view our place -- place in the Brandon  
4 community with pride, helping support our families, pay  
5 taxes, and provide further opportunities for trained  
6 people to find employment in the Westman area.

7                   To finish my comments specifically  
8 regarding Canexus, and invite the Board to look carefully  
9 at the Canexus story in Brandon, a story of ongoing  
10 investment, development, and involvement leadership,  
11 resulting in the world's largest producer here in the  
12 heart of the continent. For most of Canexus history in  
13 Manitoba, when Hydro's export prices were lower than our  
14 rates, our growth in hydro purchases actually helped  
15 increase Hydro's revenues and lowered rates to all other  
16 customers.

17                   I guess our rate proposal today is based  
18 on the changes in the late 1990s, when Hydro's export  
19 prices took off. Today, Hydro makes more money from  
20 exports than from sales to Canexus. However, if this  
21 rate proposal had been introduced back when Hydro's  
22 export prices took off, Canexus' major expansion since  
23 2000 would never have occurred.

24                   The point to -- is to assess the value  
25 added gained for Manitoba since 2000 from our



1 investments, construction, and all related economic  
2 activities.

3                   With all -- with -- was this all a mistake  
4 for Manitoba? Where all -- were we all simply too slow  
5 getting the rate -- the rate right? Or is this the  
6 mistake occurring today with the push to -- to target  
7 above average growth as being not in the public interest.

8                   In closing, the industrial customers in  
9 Manitoba have been well-served by the Utility in the  
10 past. Hydro is a good company to deal with and we would  
11 not want our comments to be read as criticism of the  
12 professional and competent staff that Hydro employs.  
13 Although we have been blessed in the past with a good  
14 partner in Hydro, we are concerned with what appears to  
15 be a shift over time in Manitoba Hydro's priorities, away  
16 from its domestic customers to its export sales.

17                   For industries that invest significant  
18 capital and resources in Manitoba, with the most  
19 important factor, with respect to hydro rates, is a  
20 stable and predictable price environment.

21                   We believe that Manitoba ratepayers have  
22 been well-served by having Manitoba Hydro rates regulated  
23 by the Public Utilities Board. Industrial customers, in  
24 particular, have seen the havoc that arises when other  
25 jurisdictions in Canada and the United States have veered

1 off into unregulated market-driven or privatized  
2 environments, where market forces are put ahead of  
3 principle cost allocation and rate stability.

4           Going beyond concerns about the fairness  
5 is its -- as its core of this new rate proposal, we are  
6 seeing here a proposal to use Hydro rates to target too  
7 much growth. Any such proposal makes us nervous as to  
8 what's going on. There's no compelling evidence that  
9 Manitoba Hydro has -- or Manitoba has anything material  
10 to gain from taking on this new and risky approach to  
11 rate setting, simply to get Hydro a little bit more  
12 revenue.

13           And there is a simple evidence of the  
14 multitude of ways that this approach can stop highly  
15 desirable growth, as well impose unfair rates on people  
16 who must expand here, notwithstanding this rate. I ask  
17 the Board to consider the presentations made by MIPUG in  
18 light of the competitive challenges faced by Canexus and  
19 other energy intensive industries in Manitoba, and to  
20 help us retain our competitive position in Manitoba and  
21 in North America.

22           The future growth of large industry in  
23 Manitoba depends on reliable firm power at fair and  
24 reasonable rates; rates that reflect cost of service  
25 principles and demonstrate commitment to innovative --

1 innovative rate options benefit both industry, Manitoba  
2 Hydro and the Province of Manitoba.

3           Two (2) other comments I'd like to make:  
4 In the current economic condition that we're in right  
5 now, even Canexus Brandon has suffered. Starting  
6 December the 1st, we have cut -- actually our rates by 25  
7 percent. We're hoping that as of January, we'll be able  
8 to increase load again, but there was a meeting that I've  
9 missed today now, that I've just got an email on a little  
10 bit earlier, is that we have now as a company lost an  
11 additional group of sales, due to mills shutting down.  
12 So it makes it tough, even on a low-cost plant like  
13 Brandon.

14           One (1) other point that I'd like to make  
15 then is that with the economic conditions like they are  
16 today, I echo Mike in saying that we have to be very  
17 cautious of Hydro rate increases next Spring when we're  
18 all going to be, I think, suffering from the economic  
19 downturn that we -- that we have currently.

20           One (1) other comment I'd like to make. I  
21 understand that there was some confusion on my math in a  
22 letter that was part of the MIPUG Exhibit 4, Tab 2,  
23 evidence. And I guess I'll simply say that that's how  
24 dynamic the rules have changed, or the governing  
25 guidelines on -- on where the two (2) tier rate or

1 industrial rate proposal is going. I had -- I've been  
2 keeping tabs of it because my counterparts in Calgary  
3 want to know exactly what's happening, and the numbers  
4 that I had in there were based on our twelve (12) month  
5 average ending December of 2007, because that was one (1)  
6 date that I did hear.

7           The original proposal was for the best  
8 twelve (12) month over three (3) year period. I had that  
9 in a graph and when I switched over the two (2), I did  
10 make an error.

11           So the correct numbers are 1,457 gigs for  
12 the best twelve (12) months' average, and the Power Smart  
13 credits are one twenty-three (123), adding up to one  
14 point five eight (1.58).

15           So just a clarification. My math wasn't  
16 very good.

17           Thank you. We're open to questions now.

18           THE CHAIRPERSON: Thank you, Mr. Turner,  
19 and the rest of you gentlemen. We appreciate you coming  
20 down and making the presentation.

21           Because of time restraints, we really do  
22 not have a lot of time to get into questions, but you  
23 have left us a lot of things to ponder.

24           I am glad you touched on the matter of the  
25 recession, I guess you would call it, and your prior

1 discussions with Hydro and things of matter and your  
2 working relationships with them.

3 All of your points will be taken into  
4 account. We will think long and hard about them. Thank  
5 you very much.

6 MR. BILL TURNER: Thank you.

7

8 (BRIEF PAUSE)

9

10 THE CHAIRPERSON: I think we will  
11 switch on now, Mr. Ramage. If you come back on before --  
12 we have a short break after you are completed.

13 If you gentlemen would not mind switching  
14 seats...?

15

16 (BRIEF PAUSE)

17

18 MR. JOHN LANDRY: Mr. Chairman --

19 THE CHAIRPERSON: Yes, Mr. Landry...?

20 MR. JOHN LANDRY: -- while everybody is  
21 getting back to their seats, et cetera, there were, as  
22 Mr. Turner said, some speaking notes to a couple of the  
23 presentations. I'll make sure that they're hand-  
24 delivered around the room for the purposes of all the  
25 parties and the Board.

1 THE CHAIRPERSON: Yes, we will add them  
2 into the record.

3 MR. JOHN LANDRY: Thank you.

4 THE CHAIRPERSON: Okay, Ms. Ramage...?  
5

6 MIPUG PANEL RESUMED:

7 ANDREW MCLAREN, Resumed

8 PATRICK BOWMAN, Resumed

9 PETER OSTERGAARD, Resumed  
10

11 CONTINUED CROSS-EXAMINATION BY MS. PATTI RAMAGE:

12 MS. PATTI RAMAGE: This will be very  
13 brief. I just had a few questions for Mr. Bowman.

14 Mr. Bowman, I just wanted to confirm,  
15 you've been employed by InterGroup Consultants for  
16 approximately eight (8) years and that Intergroup has  
17 been providing consulting services with respect to  
18 Manitoba Hydro's rates to MIPUG for that eight (8) year  
19 period and -- and long before your time with them.

20 Is that correct?

21 MR. PATRICK BOWMAN: Thank you. Good  
22 afternoon, Mr. Chair, members of the panel.

23 I've been with InterGroup for  
24 approximately ten (10) years, and InterGroup has worked  
25 with MIPUG as a client probably just having past the

1 twenty (20) year mark, if I'm not mistaken.

2 MS. PATTI RAMAGE: Would it be fair to  
3 say that your interest in Manitoba Hydro doesn't end with  
4 rate hearings?

5 You monitor the utility's activities on  
6 behalf of your client, and on an ongoing basis?

7 MR. PATRICK BOWMAN: In -- in respect to  
8 certain aspects. I don't -- I'm not personally able to  
9 keep on -- on top of as many different aspects of the  
10 utility as -- as one might try.

11 But it -- it's certainly relevant to the  
12 work that we do up in places like Yukon or Newfoundland  
13 or -- or Northwest Territories, other places, to keep  
14 apprised of at least rate matters in different  
15 jurisdictions.

16 But you -- you -- we can't be on top of  
17 everything.

18 MS. PATTI RAMAGE: Would it be fair to  
19 say that you were aware of Manitoba Hydro's Service  
20 Extension Policy, or what it was prior to its suspension  
21 in 2005?

22 MR. PATRICK BOWMAN: I don't believe I  
23 had ever seen anything that would be as black and white  
24 as either a -- a policy document or -- or a policy  
25 itself.

1 I would have generally been aware that --  
2 that any utility would have a set of policies related to  
3 connecting new customers. But I -- I can't recall it  
4 every having been filed in a -- in a previous proceeding.

5 MS. PATTIE RAMAGE: You were aware prior  
6 to the commencements of -- of this proceeding what that  
7 Service Extension Policy was and the fact that it had  
8 been suspended.

9 Is that correct?

10 MR. PATRICK BOWMAN: I was -- I was aware  
11 in approximately 2005, when we heard from certain members  
12 who had received letters saying that the service  
13 extension policy had been suspended.

14 I -- I recall MIPUG sending -- as -- I  
15 recall MIPUG sending something to Manitoba Hydro saying  
16 they look forward to Hydro bringing that before the PUB  
17 for approval. But I don't recall anything after that, up  
18 until perhaps the Cost of Service hearing.

19 MS. PATTIE RAMAGE: Mr. Bowman, could you  
20 -- I didn't quite catch that part.

21 Hydro was bringing something for approval  
22 to the PUB?

23 MR. PATRICK BOWMAN: My -- my  
24 recollection is a number of members received a letter  
25 indicating Hydro had suspended the Service Extension



1 Policy. I -- I recall having been made aware of two (2)  
2 companies.

3 I recall there being an exchange between -  
4 - I'm going -- as I recall it -- this goes back a couple  
5 of years -- between the Chair of MIPUG and Manitoba Hydro  
6 in which the Chair of -- of MIPUG, as I recall it, was --  
7 was indicating they expected Manitoba Hydro would bring  
8 such a change before the Public Utilities Board. But I  
9 don't believe it ever was mentioned in a Public Utilities  
10 Board proceeding until perhaps the 2006 Cost of Service  
11 hearing.

12 It seems to me it may have been an item in  
13 the Free Press the first day of the hearing, or something  
14 of that nature.

15 MS. PATTIE RAMAGE: Would it be fair to  
16 say that the information provided by Mr. Wiens in the  
17 direct exam -- in his direct examination, it didn't  
18 provide you any new information on the Service Extensions  
19 Policy or contain any surprises for you?

20 MR. PATRICK BOWMAN: I haven't had a  
21 chance to go over it in detail. I think in respect of  
22 what the System Extension Policies were, there were no  
23 surprises in terms of what the policy had been in resp --  
24 in fact, the clients that I deal with, I wasn't aware of  
25 the residential policies.

1                   But there was certainly some new  
2 information in respect of -- that there were intended to  
3 be exemptions to the suspension granted by Hydro's  
4 executive. There was some new information about how many  
5 customers may have paid under the rate.

6                   There's still not a lot of detail in  
7 regards to who paid or -- or, you know, how much, or  
8 when, or any of those sort of things. So there was some  
9 new detail in the response. But in general, the fact  
10 that it was three (3) years revenue had been said in  
11 previous hearings.

12                   MS. PATTIE RAMAGE: And Mr. Bowman, you  
13 attended the September 11th meetings regarding the  
14 Energy- Intensive Rate.

15                   Is that correct?

16                   MR. PATRICK BOWMAN: Yes.

17                   MS. PATTIE RAMAGE: You attended on  
18 behalf of MIPUG, but some of its members were also  
19 present, I think. Gerdau and Vale Inco, in particular, is  
20 what I recall?

21                   MR. PATRICK BOWMAN: I bel -- I believe  
22 Vale Inco was there. As a matter of fact, I sat next to  
23 Mr. Schroeder, so I -- I specifically recall that. I  
24 believe Hudson Bay -- or HudBay had a person representing  
25 them, and I believe Gerdau may have been -- Gerdau was on

1 the phone.

2 Those are the only ones I recall, but  
3 there -- there may have been others.

4 MS. PATTIE RAMAGE: And time-of-use rates  
5 were discussed at that meeting, is that correct -- the  
6 concept, at least, not in any great detail? I'm not  
7 suggesting that.

8 But the concept was discussed?

9 MR. PATRICK BOWMAN: Frankly, I -- I  
10 don't -- I don't actually recall that. I have had a  
11 quick flip through the transcript, but it wasn't  
12 something I was looking for. So I actually -- I'm afraid  
13 I don't recall; it's -- it's entirely possible.

14 MS. PATTIE RAMAGE: Okay, I just ask you  
15 to accept that, subject to check, and I can direct you to  
16 page 42 of that transcript.

17 MR. PATRICK BOWMAN: As I -- I'll accept  
18 it, subject to check. I -- I don't recall it being a  
19 central item, but it may have gotten a mention.

20 MS. PATTIE RAMAGE: And I think, again,  
21 subject to check, Hydro had indicated it had not  
22 developed a proposal at that time, and also, subject to  
23 check, that several of your MIPUG members were -- had --  
24 had expressed some serious concerns about Hydro  
25 developing a proposal.

1                   Would that be correct?

2                   MR. PATRICK BOWMAN:    There is -- if it  
3 were mentioned, I would expect it was -- would have been  
4 the same thing that we -- we've seen in other responses,  
5 which is that Hydro hadn't developed a proposal by that  
6 time.

7                   There is a -- suffice to say, a keen  
8 interest among the members on -- on all sides of the  
9 time-of-use topic.  Some have opportunities to benefit,  
10 some see no opportunities to benefit, some see a  
11 potential that it could be a -- a threat, and -- and  
12 however it would be expected to proceed I'm sure all  
13 would -- would like the opportunity to have some -- some  
14 input before anything would -- would get too far along.  
15 But I don't think there's any surprise in any of that.

16                  MS. PATTI RAMAGE:    And think you've also,  
17 in the past, commented, I believe in the Review and Vary  
18 that it would take twelve (12) to eighteen (18) months to  
19 develop a time-of-use proposal.  And I would suggest that  
20 given the varied positions your clients are taking, that  
21 you would agree that it -- it's necessary to take that  
22 kind of time to develop that proposal.

23                  Is that right?

24                  MR. PATRICK BOWMAN:    Every time I've been  
25 involved in or been aware of developing any -- even

1 optional type of material revision to an industrial rate  
2 type of program, whether that's curtailable rates in  
3 Manitoba or the stepped rates that we -- that were  
4 brought in -- or brought forward in Newfoundland, or what  
5 we've heard of the processes in BC, it -- it takes time.  
6 There's a -- there's a -- unique issues to the  
7 jurisdiction. There's -- there's learning curve.  
8 There's implementation details. Sometimes there are --  
9 things that work in one (1) place absolutely don't work  
10 in another, and -- and there's a lot of need to work out  
11 the objectives.

12                   As I said before, Newfoundland's  
13 objectives for a stepped rate were entirely different  
14 than BC's and -- and it may be that Manitoba has no -- no  
15 credible objectives that would -- would require one to go  
16 through that -- that work. But it's -- it's -- it takes  
17 time.

18                   MS. PATTI RAMAGE:   And I would suggest it  
19 would have surprised you if Manitoba Hydro had included a  
20 time-of-use rate proposal in this filing?

21                   MR. PATRICK BOWMAN:   I guess it -- I  
22 don't know about surprise. It -- had a time-use rate  
23 proposal been filed, I think it would have caused great  
24 concern among some people who have not -- would not have  
25 had a chance to -- to digest it. At the same time, I

1 know that the Board was -- was keenly interested and --  
2 and there's aspects of things that we've been talking  
3 about over the last six (6) days that are -- that are  
4 effectively time-of-use issues.

5 So it's -- perhaps in a sense it would  
6 have been both too early and too late in -- at this time.

7 MS. PATTI RAMAGE: Mr. Bowman, something  
8 you said, I think -- I think it was this morning, and  
9 that was that GSL greater than 100 kV is now covering all  
10 costs even without allocation of export revenue.

11 Do you recall that?

12 MR. PATRICK BOWMAN: In the cost of  
13 service context, yes, I -- absolutely, I said that.

14 MS. PATTI RAMAGE: And I just want to  
15 confirm that this assertion is true, as you said, in the  
16 cost of service conste -- context, and that's one that  
17 assigns the embedded cost of five point one five (5.15)  
18 cents per kilowatt hour to exports as compared to three  
19 point one six (3.16) cents per kilowatt hours for GSL  
20 greater than 100 kVs.

21 Is that -- and there I'm looking at the  
22 PUB's book of documents, Tab 16 on the first page.

23 MR. PATRICK BOWMAN: That's right. We  
24 went over, in the Cost of Service Hearing that there are  
25 a number of aspects to export sales that are -- are much

1 higher than average cost to serve.

2 For example, exports served by imports,  
3 the sharp pencil, as I recall Mr. Cormie's term, that put  
4 times when you can buy power at very high costs and sell  
5 it for slightly higher. And -- and those -- those  
6 imports, for example, or the fuel to run those plants,  
7 aren't part of the average cost of operating the system.  
8 They're very much an export targeted cost.

9 And -- and so that -- that's why the  
10 number comes up higher, but those are the numbers that  
11 are in that tab.

12

13 (BRIEF PAUSE)

14

15 MS. PATTI RAMAGE: Thank you, Mr. Bowman  
16 and Mr. Ostergaard and Mr. McLaren, that's all the  
17 questions I have today.

18 THE CHAIRPERSON: Thank you, Ms. Ramage.  
19 We'll take a few minutes, say ten (10) minutes or so,  
20 break and we'll be back with Mr. Peters.

21

22 --- Upon recessing at 2:33 p.m.

23 --- Upon resuming at 2:49 p.m.

24

25 THE CHAIRPERSON: Okay, folks. Mr.

1 Peters...?

2

3 CROSS-EXAMINATION BY MR. BOB PETERS:

4 MR. BOB PETERS: Yes, thank you, Mr.  
5 Chairman. Good afternoon to the panel of witnesses, Mr.  
6 McLaren, Mr. Bowman and Mr. Ostergaard. I have some  
7 questions on behalf of the Board, and I'll go for the  
8 next hour and see how I do and see where we are at that  
9 point in time. I know My Friend opposite may have some  
10 re-examination, brief re-examination, he may wish to  
11 speak to.

12 So let me proceed.

13 And, Mr. Ostergaard, I want to start with  
14 you, although your panel colleagues are certainly welcome  
15 to provide any additional information that they believe  
16 will be useful to the Board.

17 Mr. Ostergaard, the gap between embedded  
18 costs and marginal costs and those -- however you  
19 calculate those marginal costs for bulk power, that's not  
20 unique to Manitoba, BC, or Quebec, is it?

21 MR. PETER OSTERGAARD: For any cost-based  
22 system it is not unique.

23 MR. BOB PETERS: Are there any Canadian  
24 jurisdictions of which you are aware where marginal cost  
25 is now lower than embedded cost of bulk power?



1 MR. PETER OSTERGAARD: Not that I'm  
2 aware, but I am not a -- an avid student of the subject  
3 or -- or its application across the country.

4 MR. BOB PETERS: And I'm not sure I quite  
5 followed the questioning from Ms. Ramage at the beginning  
6 of her questions to you, but would you agree that a made-  
7 in-Manitoba solution is what need be developed here, as  
8 opposed to simply importing a solution from another  
9 jurisdiction?

10 MR. PETER OSTERGAARD: I'm not here to  
11 suggest that a BC system based on Tariff Supplement  
12 Number 6 or -- or -- or the stepped rate tariffs be  
13 adopted holus bolus. All that I'm suggesting is that it  
14 might be helpful to the Board and the province to -- to  
15 address the issues; many of which British Columbia has  
16 experienced, and I guess we've learned some lessons from  
17 it that might be useful to you -- for you to consider.

18 MR. BOB PETERS: So the growing pains  
19 from other jurisdictions may be of assistance to this  
20 Board as they go through this process?

21 MR. PETER OSTERGAARD: Yes.

22 MR. BOB PETERS: And you don't dispute  
23 that the gap that we talk about, and that's the gap  
24 between the embedded costs and the marginal costs of bulk  
25 power supply, that that gap can lead to financial

1 implications for the Utility?

2 MR. PETER OSTERGAARD: It can lead to  
3 financial implications, yes.

4 MR. BOB PETERS: And those financial  
5 implications are what I believe Mr. Bowman says are the  
6 focus of the energy intensive industry rate here in  
7 Manitoba.

8 And you'd agree with that?

9 MR. PETER OSTERGAARD: There are many  
10 ways to the implementa -- or the implications, rather, of  
11 the gap can be addressed and certainly the energy  
12 intensive industrial rate is one (1) way to do it.

13 MR. BOB PETERS: In British Columbia  
14 would I be correct to say that the financial implications  
15 were not the focus of the BC solutions in dealing with  
16 the gap between embedded costs and marginal costs of bulk  
17 power supply?

18 MR. PETER OSTERGAARD: I think the  
19 financial implications were -- were part of the -- the --  
20 or -- or one (1) of the factors that went in to the  
21 stepped rate structures, in other words, to try to dampen  
22 load growth. And also, with respect to Tariff Supplement  
23 Number 6, the financial implications of allowing, as a  
24 hypothetical example -- a hypothetical example, a -- a  
25 large new aluminum smelter into the province without

1 having that smelter contribute to some of the costs of  
2 service of it.

3 So clearly the financial implications were  
4 -- were a factor, not necessarily the only one.

5 MR. BOB PETERS: All right. And -- and  
6 it's a good qualification that you make. But the  
7 financial consideration that was foremost in British  
8 Columbia was the new large general service customer  
9 coming in with a -- with a load of 150 megawatts or more.  
10 That was the financial concern, that they would cause  
11 additional cost to the generation system that would have  
12 to be borne by all customers.

13 MR. PETER OSTERGAARD: That's correct.

14 MR. BOB PETERS: And -- and the way that  
15 was dealt with, and I'll have some questions for you, was  
16 the Tariff Supplement 6 that you've put in your evidence  
17 and you've also spoken to the other lawyers about.

18 MR. PETER OSTERGAARD: Yes.

19 MR. BOB PETERS: In British Columbia, the  
20 domestic load growth was such that all classes were  
21 contributing to that growth, were they not?

22 MR. PETER OSTERGAARD: Yes, over time,  
23 all customer -- all major customer classes in British  
24 Columbia have been growing, albeit at different rates.

25 MR. BOB PETERS: And all of those

1 classes, as they grew then, were driving costs related to  
2 new energy supplies?

3 MR. PETER OSTERGAARD: Yes.

4 MR. BOB PETERS: And there some  
5 disproportionate growth, is what you were suggesting, at  
6 -- at various points in time.

7 MR. PETER OSTERGAARD: Yes, I -- I'm not,  
8 again, an expert in tracking year-to-year changes, but in  
9 my -- in my report, I did include load growth information  
10 for the industrial classes, which does show a dampening  
11 of load growth attributable, arguably, to economic  
12 conditions, but attributable also to the stepped rate  
13 structure in the industrial class.

14 MR. BOB PETERS: Is it just the  
15 residential customers and the industrial customers who  
16 have stepped rates in British Columbia, or is there  
17 stepped rates for the commercial customers now as well?

18 MR. PETER OSTERGAARD: There are no  
19 stepped rates for commercial customers at this time. In  
20 response to an Information Request, I did give a call to  
21 -- I shouldn't say I gave -- I gave a call to, someone  
22 else called the -- a staffer at the BCUC, and that  
23 staffer did indicate that -- at the -- one (1) of the  
24 proceedings this year, I guess it was the residential  
25 inclining block rate proceeding, BC Hydro did indicate

1 that it was considering some form of stepped rate  
2 structure for commercial classes at some point in the  
3 future.

4 MR. BOB PETERS: But not -- not -- it's  
5 not there yet?

6 MR. PETER OSTERGAARD: Correct.

7 MR. BOB PETERS: And there's no  
8 application, that you're aware of, pending on that?

9 MR. PETER OSTERGAARD: There is no  
10 application that I'm aware of.

11 MR. BOB PETERS: And so the focus from  
12 these second tier rate structures in British Columbia,  
13 they're focussed on energy efficiency for -- for the  
14 customer classes to which they apply.

15 Would you agree with that?

16 MR. PETER OSTERGAARD: Yes, they're  
17 attempting to dampen demand in that particular customer  
18 class.

19 MR. BOB PETERS: And as they dampen  
20 demand, that would require less energy from domestic  
21 resources to meet that demand, and that's -- that's one  
22 (1) of the benefits of it.

23 MR. PETER OSTERGAARD: That's right. In  
24 the energy plan, BC Hydro was tasked with the -- the goal  
25 of -- of using DSM as a way to achieve half of the growth

1 between now and 2020.

2 MR. BOB PETERS: But instead of exporting  
3 that savings, what's going to happen to that savings in  
4 British Columbia? It's just going to be used for new  
5 load growth; is that the intention?

6 MR. PETER OSTERGAARD: Yes, to reduce  
7 demand otherwise -- that would otherwise have occurred,  
8 and therefore, require less purchases from independent  
9 power producers, or perhaps, delay Site C.

10 MR. BOB PETERS: And from your evidence,  
11 it appears that the residential customers, as of October  
12 1st of 2008, faced a two (2) tier rate as well.

13 MR. PETER OSTERGAARD: That's correct, we  
14 have a two (2) tier rate structure for -- for residential  
15 customers, effective October 1st.

16 MR. BOB PETERS: And their first block of  
17 energy is at about five point nine eight (5.9) cents a  
18 kilowatt hour.

19 MR. PETER OSTERGAARD: That's correct.

20 MR. BOB PETERS: And then the second  
21 block will be at seven point two one (7.21) cents an hour  
22 --

23 MR. PETER OSTERGAARD: That's correct.

24 MR. BOB PETERS: -- a kilowatt hour?

25 MR. PETER OSTERGAARD: And that the --

1 the cutoff point is thirteen hundred and fifty (1,350)  
2 kilowatt hours over a two (2) month billing period.

3 MR. BOB PETERS: Right, and I -- my  
4 notes, it was six hundred and seventy-five (675) kilowatt  
5 hours a month. It sounds like you only send out bills  
6 every two (2) months in BC.

7 MR. PETER OSTERGAARD: Every two (2)  
8 months.

9 MR. BOB PETERS: Yeah.

10 MR. PETER OSTERGAARD: Yes.

11 MR. BOB PETERS: But on a mon -- but I  
12 see --

13 MR. PETER OSTERGAARD: That -- that can  
14 be significant in the -- in the shoulder seasons, of  
15 course --

16 MR. BOB PETERS: I see that. As I'm  
17 asking the question, I could see where the two (2) month  
18 could allow that second block to be accessed to a higher  
19 level that it otherwise would be on a monthly basis.

20 But six hundred and seventy-five (675)  
21 kilowatt hours a month, was that done as an average, or  
22 why was it done in two (2) months, other than the billing  
23 structure?

24 MR. PETER OSTERGAARD: I'm not familiar  
25 with the ra -- residential inclining block application,

1 but in general, it translates -- thirteen fifty (1,350)  
2 times six (6) is roughly 9,000 kilowatt hours a year,  
3 which is slightly below the average residential  
4 consumption in British Columbia.

5 MR. BOB PETERS: Was the residential rate  
6 designed to be revenue neutral to the class?

7 MR. PETER OSTERGAARD: Revenue neutral to  
8 the class, yes --

9 MR. BOB PETERS: Not --

10 MR. PETER OSTERGAARD: -- not to the  
11 individual customers.

12 MR. BOB PETERS: No, of course not. So  
13 they -- they would be larger bills for the all-electric  
14 or electric heat customers in British Columbia, which are  
15 a significant portion of that load.

16 MR. PETER OSTERGAARD: There will be  
17 larger bills to electric heating customers in general.  
18 In British Columbia, quite often electric heat is  
19 supplemented by other sources, so there will likely be  
20 some form of demand response. For example, people will  
21 turn on their natural gas fireplaces more often.

22 And of course, that will dampen demand for  
23 electricity.

24 MR. BOB PETERS: Am I also correct that  
25 in British Columbia there's not a uniform rate for all



1 residential customers across the province?

2                   Some of the distribution rates, for  
3 example, vary by location?

4                   MR. PETER OSTERGAARD:   If you're a BC  
5 Hydro customer, your rate is the same across the  
6 province, unless you're in what is called Zone 2, which  
7 is the non-integrated grid areas serviced by BC Hydro  
8 diesels.

9                   The city of New Westminster has its own  
10 rate structure, although it is served entirely by BC  
11 Hydro as a -- as a wholesale customer.

12                   In service territories served by Fortis  
13 BC, formerly Aquila, formerly West Kootenay Power, there  
14 are different rates as well, even though BC Hydro is a  
15 main supplier of Fortis BC's electricity.

16                   MR. BOB PETERS:    Are the rates the same  
17 on the island as compared to the mainland -- the lower  
18 mainland?

19                   MR. PETER OSTERGAARD:    Yes.

20                   MR. BOB PETERS:    All right.

21                   In British Columbia, was there ever --

22                   MR. PETER OSTERGAARD:    Sorry, for  
23 electricity, not for gas.

24                   MR. BOB PETERS:    Yes, I meant for  
25 electricity, sir, so thank you for that answer.

1                   Can you tell this Board, sir, that in  
2 British Columbia, was there ever a conscious effort to  
3 discourage load growth by electric customers other than  
4 the new Tier 2 rates?

5                   MR. PETER OSTERGAARD:    The Power Smart  
6 Program has been in effect, I'd say, for at least  
7 eighteen (18) years.  It started around 1990.  It was  
8 quite active in the early 1990s.  But as the surplus  
9 continued to exist, it died out a little bit in the late  
10 '90s.

11                   It was -- was resurrected again in the  
12 2002/2003 period, as it became more widely known that we  
13 were becoming net importers and as BC Hydro's board  
14 changed to have a more of a focus on Power Smart and  
15 energy efficiency under the chairmanship of Larry Bell.

16                   MR. BOB PETERS:    So other than the Power  
17 Smart initiatives, there was no rate initiatives to  
18 discourage load growth prior to the two (2) tier system?

19                   MR. PETER OSTERGAARD:    Using rates to --  
20 to send price signals in BC has gone from having a  
21 declining block rate until about nineteen (19) -- until  
22 some time in the late '80s.  So what had been a declining  
23 block rate -- in other words, you paid less for your last  
24 kilowatt hour of electricity -- to a flat rate from  
25 approximately 1990 through until October, 2008.  And of

1 course, now we have an inclining block rate to discourage  
2 consumption on the margin.

3 But certainly, until the mid- to late  
4 1980s, there was a strong desire on the part of BC Hydro,  
5 through its rate structure, to encourage residential  
6 consumption.

7 MR. BOB PETERS: When you were regulating  
8 BC Hydro, Mr. Ostergaard, what was the rationale for  
9 dividends being paid by BC Hydro through to the  
10 Government of British Columbia?

11 MR. PETER OSTERGAARD: I believe  
12 dividends started in 1990, which was well before my time  
13 at the BC Utilities Commission. The rationale for  
14 dividends to be paid by BC Hydro to the British Columbia  
15 government was that BC Hydro was in a sufficiently sound  
16 financial position by the late 1980s. And for a  
17 government looking for new sources of revenue, BC Hydro  
18 was a logical candidate.

19 MR. BOB PETERS: When you say  
20 sufficiently financially sound, what does that translate  
21 to, in terms of a debt/equity ratio?

22 MR. PETER OSTERGAARD: The debt/equity  
23 ratio in the late '80s, very roughly, was probably around  
24 seventy/ thirty (70:30), in that range. The interest  
25 coverage ratio goal was one point three to one (1.3:1) at

1 the time, although the govern -- the government, through  
2 a special direction, gave BC Hydro more time to achieve  
3 that.

4 MR. BOB PETERS: Can you explain to this  
5 Board briefly how that dividend was quantified by the BC  
6 government?

7 Did you know in advance how much was going  
8 to be required on an annual basis for the dividend to the  
9 shareholder?

10 MR. PETER OSTERGAARD: I believe it was  
11 85 percent of the distributable surplus, which is  
12 generally net income. So roughly speaking, \$200 to  
13 \$350 million a year was the -- was the general  
14 anticipation of dividend payments to the province.

15 MR. BOB PETERS: Was there a factor built  
16 into the revenue requirement to ensure that rates  
17 collected enough money to pay that dividend?

18 MR. PETER OSTERGAARD: Yes.

19 MR. BOB PETERS: And so when you built in  
20 a factor in the revenue requirement, was it a sum certain  
21 on which the base -- the rates were based?

22 MR. PETER OSTERGAARD: No, it would have  
23 been the pre-tax rate of return on equity paid by the  
24 most comparable investor-owned utility which was Terasen  
25 Gas, today's Terasen Gas. Back then it was BC Gas.

1                   So there's a -- a return on equity  
2 percentage that was grossed up to -- to account for the  
3 fact that BC Hydro does not pay income taxes, contrary to  
4 private sector, investor-owned utilities.

5                   MR. BOB PETERS:    Does that mean that you  
6 used a rate-base rate of return methodology for the --  
7 for BC Hydro?

8                   MR. PETER OSTERGAARD:   Yes.

9                   MR. BOB PETERS:    And what would that  
10 pretax rate of return equated to, percentage-wise, if you  
11 could ballpark that for this Board?

12                   MR. PETER OSTERGAARD:   Of course, at that  
13 time interest rates were considerably higher than  
14 today's. I believe it was in the range of  
15 14 to 15 percent, 14 to 16 percent annually.

16                   MR. BOB PETERS:    And more recently, do  
17 you know what -- what it's set at?

18                   MR. PETER OSTERGAARD:   The BC Utilities  
19 Commission uses a -- a system whereby they take the long  
20 Canada bonds and add a -- a risk premium. So for the BC  
21 Hydro, one would probably be in the range of 8 to 10  
22 percent, in that -- in that vicinity.

23                   That's a little bit of a ballpark figure.  
24 I could probably find the information and -- and provide  
25 it subsequent to the closure of the --

1                   THE CHAIRPERSON:   Actually, I could  
2 probably help.  It came over the CIRES newsletter the  
3 other day.  I think it was something in the order of  
4 eight point five (8.5).

5                   MR. PETER OSTERGAARD:   That makes sense.

6

7 CONTINUED BY MR. BOB PETERS:

8                   MR. BOB PETERS:   Maybe I'm asking the  
9 wrong people the questions.  Thank you, Mr. Chairman.

10                   Mr. Ostergaard, do I take it that the  
11 dividends are not a contentious issue in the regulation  
12 of BC Hydro?

13                   MR. PETER OSTERGAARD:   As you might  
14 expect, there was -- they were contentious when they were  
15 first introduced.  But today it's generally accepted that  
16 BC Hydro needs to operate efficiently, and its  
17 shareholder's entitled to a fair return on its invested  
18 capital.

19                   MR. BOB PETERS:   And I think I've heard  
20 you tell my colleagues that BC Hydro depends on net  
21 annual imports currently, because they're not running a  
22 very large thermal plant in the Burrard area.

23                   And therefore, they -- BC Hydro has to  
24 import somewhere between 3 and 12 percent of its annual  
25 energy requirements for domestic load?

1 MR. PETER OSTERGAARD: That's correct.  
2 Except for that one year, 2007/2008 where we had a high  
3 water year. And I believe BC Hydro was slightly a net  
4 exporter in that last fiscal year.

5 MR. BOB PETERS: And when you talk about  
6 annual net exports, in British Columbia it's a very  
7 modest amount by the utility because of the Hyder,  
8 Alaska, and the Seattle Municipal Utility.

9 But other than that there are not exports  
10 by -- by BC Hydro?

11 MR. PETER OSTERGAARD: I believe under  
12 high-water conditions, where BC Hydro would otherwise  
13 have to spill, then the regulatory accountants treat  
14 those exports slightly differently than they do the  
15 Powerex trade numbers. But in most years the numbers --  
16 in most years that number is -- is zero and then some  
17 years it's very small.

18 MR. BOB PETERS: I don't know that I  
19 heard you quantify the exports to Hyder, Alaska and to  
20 the Seattle Municipal Utility. Are you able to quantify  
21 those either in dollars or energy units?

22 MR. PETER OSTERGAARD: Not off the top of  
23 my head. The Hyder, Alaska net exports would be  
24 extremely small, probably in the range of at most a  
25 couple of hundred thousand kilowatt hours a years given

1 the size of Hyder, Alaska, the lack of any industry and  
2 the fact that there's only a couple of commercial  
3 establishments.

4 And with respect to Seattle City Light, it  
5 was the equivalent of what the High Ross Dam would have  
6 generated, and that's a number that I don't have on -- on  
7 the top of my head.

8 MR. BOB PETERS: But in any event the --  
9 the major exporting is done by the wholly owned  
10 subsidiary that's not regulated based on what amount to  
11 really near term sales opportunities?

12 MR. PETER OSTERGAARD: That's correct,  
13 under a transfer pricing agreement between BC Hydro and  
14 Powerex.

15 MR. BOB PETERS: And -- and that -- I was  
16 going to ask you some questions about the transfer  
17 pricing. How does Powerex determine what it's paying for  
18 its electricity that it's going to export?

19 MR. PETER OSTERGAARD: I'm not an expert  
20 by any means in the transfer pricing agreements. I know  
21 that in the responses to the Information Requests, there  
22 is a fair bit of information given on the transfer  
23 pricing agreement. Generally it's based on the -- on the  
24 mid-Columbia forward price, which is a price that -- of  
25 electricity that's traded in the mid-Columbia region



1 where BPA has a lot of transmission lines and generation  
2 stations along the river.

3 MR. BOB PETERS: And that's the price at  
4 which BC Hydro sells it to Powerex?

5 MR. PETER OSTERGAARD: That's the main  
6 factor as far as I know. But to -- to reiterate, I'm --  
7 I'm not an expert on the transfer pricing agreement. I --  
8 -- I don't work for Hydro, I never have.

9 MR. BOB PETERS: Understood. In terms of  
10 the percentage of totally -- of total -- the domestic  
11 generation that happens in British Columbia, how much of  
12 the domestic needs of British Columbia are served from  
13 their -- from BC Hydro's own resources?

14 MR. PETER OSTERGAARD: If we look at the  
15 Annual Report numbers from 2008 fiscal year, in terms of  
16 gigawatt hours, BC Hydro's sources of supply for domestic  
17 -- sorry, BC Hydro's hydroelectric generation supply  
18 totalled 52,140 gigawatt hours. Burrard contributed 260  
19 gigawatt hours, that's the 900 megawatt thermal station  
20 in Greater Vancouver.

21 Other thermal was 353, purchases under  
22 long-term commitments was eleven thousand eight hundred  
23 and seventy-eight (11,878). Then there was a bunch of  
24 export numbers as well.

25 MR. BOB PETERS: Were those -- sorry to

1 interrupt on that, but those purchases you mentioned, are  
2 those the purchases from the independent power producers?

3 MR. PETER OSTERGAARD: Yes.

4 MR. BOB PETERS: All right. And --

5 MR. PETER OSTERGAARD: And probably Alcan  
6 as well, BC Hydro purchases surplus electricity from  
7 Alcan.

8 MR. BOB PETERS: That's from the Kitimat  
9 area and --

10 MR. PETER OSTERGAARD: Correct. The  
11 Kemano -- the Kemano generation station in -- in  
12 northwestern British Columbia generates more electricity  
13 than Alcan needs for it's smelters, so the surplus is  
14 sold to BC Hydro.

15 MR. BOB PETERS: And then if you have  
16 that same report, sir, the imports to serve the BC load,  
17 is that also delineated on that report?

18 MR. PETER OSTERGAARD: Oh, it's in here  
19 somewhere, but I'm not quite sure where it is, it's not  
20 on the same table.

21

22 (BRIEF PAUSE)

23

24 MR. PETER OSTERGAARD: I believe I have  
25 that number in another report, which I brought with me.

1 (BRIEF PAUSE)

2

3 MR. BOB PETERS: Perhaps that's something  
4 we can undertake to have you notify your counsel of and  
5 he can provide it to the record here.

6 MR. PETER OSTERGAARD: Generally -- yes,  
7 I can do that. Three (3) to 13 percent of domestic  
8 requirements would be in the order of -- of 1,500 to  
9 7,000 gigawatt hours a year would be imported to provide  
10 domestic requirements.

11 MR. BOB PETERS: For the 2008 year, are  
12 you able to narrow it down as to which end of the scale  
13 that was on or is that as close as you can come?

14 MR. PETER OSTERGAARD: For the '07/'08  
15 fiscal year, I believe it would have been a negative  
16 number given the -- the hydro surplus last year.

17 MR. BOB PETERS: All right. Then we  
18 don't need that undertaking from -- from you and your  
19 counsel.

20 MR. PETER OSTERGAARD: Actually, I think  
21 I found it here.

22 MR. BOB PETERS: Oh.

23 MR. PETER OSTERGAARD: Imports for  
24 domestic supply gigawatt hours, 2007/'08, not available  
25 at the time this report was prepared; '06/'07, six

1 thousand two hundred and fifty-three (6,253); 2005/'06  
2 fiscal year, four thousand four hundred and sixty-one  
3 (4,461) which was 9 percent of requirements; '04/'05,  
4 seven three eight one (7,381) which was 14 percent of  
5 requirements; '03/'04, 5,118 gigawatt hours which was 10  
6 percent; 2002/2003, was one thousand seven and fifty-  
7 three (1,753) which was 4 percent.

8                   So you can understand the range here of --  
9 in -- in these cases, 4 to 14 percent of domestic  
10 requirements were imported.

11                   MR. BOB PETERS: Thank you. I want to  
12 turn with you, Mr. Ostergaard, to the Tariff Supplement 6  
13 that's been talked about and -- and also the step rate  
14 aspects. And in Tab 13 of a book of documents that I  
15 prepared some time ago -- your counsel may have a copy or  
16 I see Mr. Bowman has one handy -- in Tab 13 of that book  
17 of documents is some information that I believe was filed  
18 by Manitoba Hydro but it contains extracts from some of  
19 the same information I think you provided in some of your  
20 materials.

21                   But I want the Board to understand this  
22 Tariff Supplement 8 -- sorry, Tariff Supplement 6, Mr.  
23 Ostergaard, as well as the inverted rates that -- that go  
24 along with it.

25 In this particular solution to concerns about load growth

1 and sending efficiency signals, customers were provided  
2 with a baseline, correct?

3 MR. PETER OSTERGAARD: We're talking  
4 about Tariff Supplement...?

5 MR. BOB PETERS: I'm talking about the --  
6 the stepped rates as well.

7 MR. PETER OSTERGAARD: Stepped rates,  
8 yes.

9 MR. BOB PETERS: Yes.

10 MR. PETER OSTERGAARD: Yes. Customer  
11 baseline loads were established for each individual  
12 industrial customer to provide that baseline load.

13 MR. BOB PETERS: All right. And -- and  
14 the baseline, once it was established, the heritage rate  
15 was charged against 90 percent of the customer's baseline  
16 in each year, correct?

17 MR. PETER OSTERGAARD: Not quite. The  
18 Tier 2 rate was established. The Tier 1 rate was a  
19 derivative of the actual consumption and the Tier 2 rate  
20 so, yes, in general, it was very close to the heritage  
21 rate.

22 MR. BOB PETERS: All right. Your  
23 correction of me is to perhaps underline the point to  
24 this Board that in applying a baseline with a Tier 1 and  
25 a Tier 2 rate, the objective was to strive for revenue

1 neutrality?

2 MR. PETER OSTERGAARD: At the level of  
3 the individual industrial customer, yes.

4 MR. BOB PETERS: Correct. Not at the  
5 customer's -- not the class necessarily, but certainly at  
6 the customer level, assuming the customer would use the  
7 same amount as their -- as their baseline was calculated  
8 at.

9 MR. PETER OSTERGAARD: Yes.

10 MR. BOB PETERS: So that really meant  
11 that the -- the Tier 1 rate had to drop a little bit and  
12 the Tier 2 rate would be an amount higher than that?

13 MR. PETER OSTERGAARD: Fifty (50) --  
14 fifty-four dollars (\$54) a megawatt hour in the first  
15 year and now seventy-three dollars (\$73) and change in  
16 the second year.

17 MR. BOB PETERS: Right. And the -- the  
18 Tier 2 rate, even though it went from fifty-three dollars  
19 (\$53) -- or fifty four dollars (\$54) to seventy-three  
20 dollars (\$73) a megawatt, it was still designed -- the  
21 rate was still designed to be revenue neutral to the  
22 customer, using a hundred percent of their baseline?

23 MR. PETER OSTERGAARD: Yes. So,  
24 therefore, under the second year, the Tier 1 rate would  
25 fall. The Tier 1 rate has yet to be established because

1 the 2008/'09 revenue requirements decision has yet to  
2 come down from the BCUC.

3 MR. BOB PETERS: Understood. Can you  
4 explain to this Board why the rate was set to be revenue  
5 neutral on a customer-by-customer basis?

6

7 (BRIEF PAUSE)

8

9 MR. PETER OSTERGAARD: I do recall that  
10 that was a direction in the 2002 Energy Plan, where the -  
11 - where the stepped rate was announced.

12

13 (BRIEF PAUSE)

14

15 MR. PETER OSTERGAARD: Of the existing  
16 cust -- consumption level, the total cost to the  
17 consumer, and the total revenue to the distribution  
18 company offering the rate are unchanged.

19 MR. BOB PETERS: So there was a directive  
20 to establish revenue neutrality on a customer-by-customer  
21 basis.

22 MR. PETER OSTERGAARD: Directive is a  
23 word I wouldn't use, but there was a policy direction,  
24 for lack of a better term, or a policy action that stated  
25 that.

1                   MR. BOB PETERS:    And the Tier 2 rate, you  
2 showed some instability in the two (2) prices, if it went  
3 from about five point four (5.4) cents to seven point  
4 three (7.3) cents.

5                   A fairly significant increase, you'd  
6 agree?

7                   MR. PETER OSTERGAARD:   For the -- for the  
8 Tier 2, yes, it's a significant increase.

9                   MR. BOB PETERS:    But if the customer just  
10 used 100 percent of their baseline, they would be revenue  
11 neutral to what the old embedded rate would have been?

12                   MR. PETER OSTERGAARD:    Yes.

13                   MR. BOB PETERS:    And so it's only if the  
14 customer exceeds the baseline will they have revenue  
15 consequences adverse to what they would be under the  
16 heritage rates?

17                   MR. PETER OSTERGAARD:    Yes, if they -- if  
18 they exceed the baseline, they would pay more for their  
19 electricity.

20                   MR. BOB PETERS:    But if the customer  
21 exceeds the baseline by more than 10 percent, the entire  
22 formula is then reset, as I understand it.

23                   Is that your understanding?

24                   MR. PETER OSTERGAARD:    That's my  
25 understanding, yes.



1                   MR. BOB PETERS:    So the customer is still  
2 kept revenue neutral, even though they've now got a new  
3 baseline?

4                   MR. PETER OSTERGAARD:   In -- in the sense  
5 that their -- in the sense that their consumption is  
6 higher than it was the year before, they are paying more,  
7 but they would be argue -- yes, they would revenue  
8 neutral compared to their -- to their -- on the basis of  
9 cents per kilowatt hour paid in total.

10                  MR. BOB PETERS:    As part of these stepped  
11 rates for the industrial class in British Columbia, time  
12 of use, you indicated in your direct evidence, was -- was  
13 an optional portion heretofore not yet used, as I  
14 understood?

15                  MR. PETER OSTERGAARD:   That's right, the  
16 2002 Energy Plan stated that time-of-use rate should be  
17 developed as an option to the stepped rate structure.

18                  The report and recommendations from the  
19 BCUC that discusses this indicates that BC Hydro didn't  
20 develop a time-of-use proposal for that particular  
21 proceeding, mostly because they didn't think anybody was  
22 going to go for it.

23                  The Commission asked them to develop it  
24 anyways, because the Energy Plan referred to it. They  
25 have a time-of-use rate structure, which is in the

1 response to the -- one of the Information Requests.

2 But to date -- in the first two (2) years,  
3 at least, of the review of the stepped rate structures --  
4 BC Hydro was noted in these annual reports on the service  
5 rates that there have been no takers on time-of-use  
6 rates.

7 MR. BOB PETERS: You heard some of the  
8 presenters just before this panel came back on, Mr.  
9 Ostergaard?

10 MR. PETER OSTERGAARD: Yes, I did.

11 MR. BOB PETERS: And can you maybe  
12 explain to this Board why -- why it is -- why there are  
13 no takers, according to your understanding, at this point  
14 in time in British Columbia?

15 MR. PETER OSTERGAARD: I don't have a  
16 reason to -- to give for that, other than one must assume  
17 that it's not as attractive as the stepped rate  
18 structure, in the sense that industrial customers have to  
19 trade off shifting their consumption requirements to take  
20 advantage of lower-priced electricity at certain hours of  
21 the day. And they've made the economic conclusion that  
22 it's not worth -- worth their while to do so.

23 MR. BOB PETERS: Does that suggest that  
24 the customers have load factors, perhaps like some of the  
25 presenters, that are sufficiently high, that they're

1 running -- they're running on a 90 percent or higher load  
2 factor, where time of use, at least daily time of use,  
3 might not be an attractive option?

4 MR. PETER OSTERGAARD: I'm really  
5 reluctant to comment on the reasons why BC industrial  
6 customers have not taken advantage of time-of-use rate  
7 structures. I expect that that will be an issue that the  
8 BCUC will -- will include in its terms of reference for  
9 its report back to government on these issues in less  
10 than a year's time.

11 MR. BOB PETERS: You're not aware of any  
12 inherent rate design aspect of it that has made it  
13 unattractive?

14 MR. PETER OSTERGAARD: I'm not aware of  
15 it -- any -- any inherent aspects of the rate design, but  
16 neither am I familiar with the time-of-use rate  
17 structure.

18 MR. BOB PETERS: All right, thank you.  
19 In British Columbia would it be correct to say that there  
20 is -- there's no cap on the growth of any of the  
21 industrial customers?

22 MR. PETER OSTERGAARD: That's correct.

23 MR. BOB PETERS: They just pay the Tier 2  
24 rate for everything above their -- above 90 percent of  
25 their baseline?

1 MR. PETER OSTERGAARD: Yes, and those  
2 customer baseline loads would be reset, either within the  
3 year or at the end of the year, in accordance with plant  
4 expansions or contractions or, indeed, any other reasons,  
5 such as labour disputes.

6 MR. BOB PETERS: There's no floor in  
7 British Columbia for the second tier rate at which it  
8 kicks in, in terms of dollars and cents amount; it's not  
9 protected by any mechanism?

10 MR. PETER OSTERGAARD: It's 90 percent of  
11 your customer baseline load is where it kicks in,  
12 correct.

13 MR. BOB PETERS: All right. And in terms  
14 of setting the actual price for that second tier of  
15 energy, that's based on the bids that the independent  
16 power producers quote when BC Hydro puts out a request  
17 for bids?

18 MR. PETER OSTERGAARD: It's the results  
19 of the calls for tender in the most recent calls. Hydro  
20 then applies to the BCUC to set the Tier 2 price. And  
21 the most recent example of that was in the spring of  
22 2008, when BC Hydro's Tier 2 price was approved by the  
23 BCUC after a written hearing process.

24 MR. BOB PETERS: Mr. Ostergaard, if the  
25 largest of industrial customers in British Columbia grow

1 disproportionately larger than their class members and  
2 more than the class average, who pays for the growth of  
3 that large customer?

4

5 (BRIEF PAUSE)

6

7 MR. PETER OSTERGAARD: All BC Hydro  
8 ratepayers would -- would pay for increased consumption  
9 in -- in that situation.

10

11 (BRIEF PAUSE)

12

13 MR. BOB PETERS: When I turn to the  
14 Tariff Supplement 6 in the service extension issues, as I  
15 understand your evidence, this was the solution in  
16 British Columbia for someone expanding at such a  
17 significant rate that it would have major financial  
18 repercussions to other ratepayers.

19 This is where the line was drawn?

20 MR. PETER OSTERGAARD: Tariff Supplement  
21 Number 6 would apply to any industrial customer wishing  
22 to locate in British Columbia. The 150 megavolt ampere  
23 cutoff point is for the very large ones that want to  
24 expand -- or -- or locate, rather, in British Columbia.

25 MR. BOB PETERS: So if we pick the very

1 largest of the large -- the -- the greater than 150  
2 megawatts, in my measurement -- they would face the  
3 prospect of having to contribute to the actual generation  
4 facilities that was going -- that would be needed to  
5 serve them?

6 MR. PETER OSTERGAARD: Yes.

7 MR. BOB PETERS: And as I read your  
8 evidence, the aluminum smelter venture on the island was  
9 interested, but not when they got the -- the costs, as  
10 Mr. Bowman had explained in his evidence.

11 MR. PETER OSTERGAARD: Yes, that  
12 particular proposal was one that was perhaps not as  
13 serious as some of the other aluminum smelter proposals  
14 that we've seen across North America.

15 And they were proposing, at the time, that  
16 BC Hydro provide a long-term supply contract at a fixed  
17 rate. So therefore, BC Hydro rightly had no choice but  
18 to sugge-- well, to -- to indicate that their -- that  
19 they were going to be guided by Tariff Supplement Number  
20 6, at which point, the proponents of the smelter  
21 complained to the BC Utilities Commission.

22 The Commission asked BC Hydro for some  
23 information and then indicated in its response -- BCUC,  
24 that is, indicated in its response to the Alberni  
25 Aluminium Corporation that BC Hydro's general

1 interpretation of Tariff Supplement Number 6 was correct,  
2 but if -- and -- and BC Hydro also had indicated that --  
3 that they wanted a -- a more specific estimate, or -- or  
4 a more specific quote, as to what the actual number was  
5 than the cost would be in the order of four hundred  
6 thousand dollars (\$400,000).

7 MR. BOB PETERS: The most serious of the  
8 requests for relief under Tariff Supplement 6, then, came  
9 from the pipeline company you mentioned.

10 And they did in fact proceed with their  
11 generation -- or with their construction and also  
12 contributed to generation?

13 MR. PETER OSTERGAARD: There was no  
14 request for relief from Kinder Morgan. And I do not  
15 believe there was any contribution to generation, since  
16 the load was in the range of 55 to 60 megawatts, as  
17 opposed to 150 megawatts.

18 MR. BOB PETERS: On a related issue, in  
19 terms of service extension, BC Hydro provides an offset  
20 or credit against the cost of system reinforcement.

21 And that formula appears to be the net  
22 revenue increase times seven (7) years, plus 50 percent  
23 of one (1) year's depreciation, as well as other  
24 benefits, to be determined by -- by the utility?

25 MR. PETER OSTERGAARD: Generally, yes.

1 The formula is -- is set out in both Tariff Supplement  
2 Number 6, which is attached to a response to an  
3 Information Request, and I believe it may also be in my  
4 report.

5 MR. BOB PETERS: Can you tell this Board  
6 what the typical, or maybe even range of, offsets or  
7 credits are as a percentage of the cost of system  
8 reinforcement?

9

10 (BRIEF PAUSE)

11

12 MR. PETER OSTERGAARD: Sorry for the  
13 delay.

14 In my response to Manitoba Hydro/MIPUG-9,  
15 page 4 and 5, we were asked to give some examples of  
16 Tariff Supplement Number 6.

17 And as I believe I noted in the section  
18 dealing with examples, based on examples that I am aware  
19 of, TS-6 customers tend not to pay any system  
20 reinforcement costs but do tend to pay the full cost of  
21 the transmission extension and connection to the system,  
22 based on that formula.

23 That is because BC Hydro's revenues over  
24 the number of years usually fully offset the -- the costs  
25 of transmission reinforcement under the formula. BC



1 Hydro does require some sort of financial security or a  
2 letter of credit which is refundable over the years as  
3 the new customer does indeed take the electricity that it  
4 says it's going to take, for the purposes of calculating  
5 the formula.

6 MR. BOB PETERS: All right. Thank you  
7 for that answer, Mr. Ostergaard.

8 When you sit back and you've heard  
9 considerable discussion and evidence here in the Manitoba  
10 proceedings -- and I suppose, if I put you on the spot,  
11 maybe even -- had you -- if you had to be a panel member  
12 deciding this in Manitoba, what solution do you think  
13 works best, based on your understanding of the Manitoba  
14 solu -- situation?

15 MR. PETER OSTERGAARD: Well, as I  
16 mentioned in my -- my direct evidence yesterday, I do  
17 believe that the -- for existing customers, some form of  
18 stepped rate system to discourage consumption at the  
19 margin and encourage efficiency investments, self-  
20 generation, works in British Columbia, it may be  
21 appropriate for Manitoba.

22 And, similarly, for new customers, there  
23 is a need, similar to what was described in Tariff  
24 Supplement Number 6 as a -- as a way to have new  
25 customers pay much of the freight of locating in a new

1 jurisdiction, but at the same time, not being suffi -- so  
2 onerous that you're discouraging new industrial loads to  
3 locate in Briti -- in -- in Manitoba.

4           The -- the long-term ramifications, I  
5 expect, of what is under review in this application could  
6 be quite serious, if you look at the long-term.

7           My father, in the 1940s, worked in an  
8 industrial plant in Neepawa, and I don't think that plant  
9 is there anymore. I don't know why it shut down. But  
10 over the very long run, industries in any jurisdiction  
11 come and they go for lots of reasons.

12           But if you're discouraging new industry  
13 from locating and existing industries go, for whatever  
14 reason -- mines in British Columbia open and close,  
15 aluminum smelters in Pacific Northwest normally close  
16 because electricity costs are too high -- then over time,  
17 your society may transform itself into a post-industrial  
18 society sooner than you think it otherwise might.

19           So what British Columbia has done here  
20 with industrial loads is to try to send price signals at  
21 the margin for industry to become efficient, self-  
22 generate, to find efficiencies through -- through power  
23 smart programs on the margin, and for new customers to  
24 pay part of the freight, much of the freight, but not to  
25 the point where you're saying no to new industry based on

1 electricity costs.

2 MR. BOB PETERS: Does that -- and I  
3 thought you might answer something like that towards the  
4 existing customers, sir, and I -- I do appreciate your  
5 other answers.

6 In terms of those stepped rates for  
7 existing customers, in your view, is there a need that  
8 they be revenue neutral to the customer, or would it work  
9 if they were revenue neutral to the -- to the class only  
10 as a whole?

11 MR. PETER OSTERGAARD: I haven't given  
12 that any thought, but I would imagine that in -- in  
13 another jurisdiction, then -- in terms of thorough  
14 analysis, studies, discussion, agreement -- then revenue  
15 neutrality at the level of the class may be something  
16 that we should be looking at.

17 MR. BOB PETERS: Thank you, Mr.  
18 Ostergaard.

19 Mr. Bowman and Mr. McLaren, I have a few  
20 areas to ask question of you, and I -- I know we've  
21 talked quite a bit about constraints and different types  
22 of constraints. One of the constraints that we may not  
23 have talked a lot about yet are the market constraints.

24 And is it your understanding, gentlemen,  
25 that there are market constraints that impact Manitoba

1 Hydro's ability to export?

2 MR. PATRICK BOWMAN: Yes, good afternoon.  
3 I would say I have heard discussion in this room about  
4 constraints with people who would not be interested in  
5 purchasing Manitoba Hydro's power at times.

6 I seem to recall a bit of discussion that  
7 I've read transcript of recently where you were asking  
8 about exports to Saskatchewan of Manitoba Hydro, and them  
9 indicating there's not a lot of interest in -- in  
10 Saskatchewan on buy -- buying Manitoba Hydro's power.

11 And I think we've also heard some  
12 discussion about Manitoba Hydro's new possible tie-lining  
13 into the United States and the need to get far enough --  
14 it's not just a matter of getting to the border. It's  
15 getting quite a ways across the border, because there's  
16 also tie-line constraints on that side of the border.

17 So if all of those fit into the aspect of  
18 constraints that occur outside of Manitoba's borders but  
19 are market-related constraints, I think the -- there has  
20 been evidence at times that those exist.

21

22 (BRIEF PAUSE)

23

24 MR. BOB PETERS: Mr. Bowman, Mr. McLaren,  
25 I want to make sure I understood -- I -- what it -- what

1 Mr. Bowman may have talked about in his direct evidence.

2 But when Hydro equates 1 megawatt of firm  
3 industrial load to 1.1 megawatts of potential new  
4 exports, does that, in your view, accurately reflect the  
5 quality of energy being moved?

6 MR. PATRICK BOWMAN: It -- I don't  
7 believe that the concept of equating those two (2) is  
8 entirely accurate.

9 Clearly, on a capacity side, there are  
10 reserves that are required. But it's not like those  
11 reserves necessarily cause one to have to spill a bunch  
12 of water that you'd otherwise generate with. The water  
13 is still there, and I'm assuming it's not leading someone  
14 to waste water in order to maintain reserves.

15 It may mean that in -- you might have to  
16 keep certain capacity in reserve. It's -- it's part of  
17 the rationale for the comments Mr. Turner made earlier  
18 today that he's a -- he's a part of a capacity DSM  
19 program, that -- that his plant effectively acts as a  
20 backup generator to Manitoba Hydro.

21 But it doesn't mean one goes in and spills  
22 the water. You just store it to another time.

23 MR. BOB PETERS: In your view, can  
24 Manitoba Hydro, through reservoir storage manipulation,  
25 convert all off-peak energy from reduced industrial

1 consumption to on-peak export sales?

2 MR. PATRICK BOWMAN: Not if the evidence  
3 is that there are generation constraints at on-peak  
4 times.

5 MR. BOB PETERS: In the below-average  
6 flows, that answer might be different, Mr. Bowman?

7 MR. PATRICK BOWMAN: Below-average flows  
8 require one to think about the system entirely  
9 differently. It may not be possible to move all water  
10 from off-peak times to on-peak times, for example,  
11 because you may have off-peak minimum flow constraints,  
12 where you have to release the water.

13 And of course, it -- at very low flow  
14 conditions, you may be into marginal resources,  
15 incremental resources -- in fact, being from things like  
16 thermal generation, not from the hydro generation.

17 So I don't want to understate the extent  
18 to which the system -- thinking your way through all of  
19 the different scenarios, this -- this system becomes very  
20 complicated, because high flows look very different than  
21 low flows, look different than -- than average.

22 But I think at a -- at a basic level,  
23 Hydro's system obviously can -- can firm and shape power.  
24 It's what it does for wind resources. It does -- what it  
25 does for aspects of the water that it receives.

1                   But that -- that isn't an unlimited  
2                   capability.

3                   MR. BOB PETERS:    If and when Keeyask and  
4                   Conawapa generating stations come online, does the  
5                   substantial increase in energy available affect the  
6                   marginal price that should be employed as a proxy rate  
7                   that we're discussing in this Hearing?

8

9   (BRIEF PAUSE)

10

11                   MR. PATRICK BOWMAN:   We have to be very  
12                   careful about the -- the proxy rate that people are  
13                   talking about and the use to which it is put.

14                                        If you're talking about a rate being used  
15                   in a way that Mr. Ostergaard has noted in BC, in a  
16                   revenue-neutral way, your price signals aren't intended  
17                   to be perfect.  They're intended to be directional.

18                                        If you get that run out rate a little high  
19                   so that the base rate is a little low, it's not the end  
20                   of the world, because the customer is generally being  
21                   kept -- held whole.  That run over is only being used to  
22                   send a price signal.

23                                        It's an entirely different situation when  
24                   you're into the -- this type of thing that Mr. Svidal was  
25                   talking about that Enbridge deals with in a lot of

1 jurisdictions, where you have market prices. When your  
2 load is almost entirely exposed to market, you -- you  
3 really want to make sure you get that price right,  
4 because they don't see the offset somewhere else.

5           But outside of that comment, the --  
6 bringing on Conawapa and Keeyask will obviously change  
7 the mix with respect to exports, the mix of firm and  
8 opportunity, the extent to which the system is at risk of  
9 opportunity in any given year, the extent to which the  
10 system is at risk of having to use imports in any given  
11 year.

12           And -- but probably that -- what will  
13 change it as much as that is what happens in the overall  
14 market, in particular, with addition of a new tie-line  
15 that's -- that's in -- intended to be part of that  
16 overall capital development plan.

17           That may change -- the tie-line may change  
18 more substantially Hydro's system than -- than Conawapa  
19 and Keeyask alone do. And it's very hard to look at the  
20 Power Resource Plan that's arrived yesterday and get  
21 one's mind all the way around that issue.

22           MR. BOB PETERS: I want to jump to the  
23 Service Extension Policy issue that I discussed briefly  
24 with Mr. Ostergaard.

25           And Mr. Bowman and Mr. McLaren, are you



1 familiar with what Manitoba Hydro's gas subsidiary does,  
2 in terms of extensions?

3 MR. PATRICK BOWMAN: Generally, it's  
4 pretty common to other regulated utilities we've dealt  
5 with.

6 MR. BOB PETERS: And your general  
7 understanding is that it's a thirty (30) year net present  
8 value test over the expected revenues and -- and costs?

9 MR. PATRICK BOWMAN: Expected revenues  
10 and incremental costs arising on the system as a result  
11 of the -- the -- the customer, yes.

12 MR. BOB PETERS: Could a similar system  
13 be invoked for Manitoba Hydro's service extension for  
14 industrial customers?

15

16 (BRIEF PAUSE)

17

18 MR. PATRICK BOWMAN: Certainly  
19 mathematically, a similar system could be used. Whether  
20 it would have a major practical difference, compared to  
21 what Manitoba Hydro does now, is an -- is an exercise  
22 that would be interesting to see some analysis done on.

23 But the -- the number-one item that one  
24 must be cautious of is that we're not doing through the  
25 back door, through that route, exactly the thing that

1 we're saying you have to be very careful and -- and is  
2 not recommended to be done with but through the front,  
3 which is saying to the new customer, You're the one who's  
4 going to have to pay for Conawapa, not me, because I was  
5 here first.

6                   That -- that is -- whether that principle  
7 is -- is -- is violated on an ongoing rates basis or  
8 whether it's the -- being violated by making a customer  
9 pay a one (1) big -- a big, one (1) time contribution  
10 that is intended to pay for the present value costs of  
11 Conawapa, or -- or Wuskwatim or whichever resource you  
12 want to talk about, it's -- it's not what's in Tariff  
13 Supplement Number 6. It's -- it's not what's in Hydro's  
14 current System Extension Policies. And it -- it should  
15 not be brought into the ongoing setting of rates for --  
16 for a subclass of customers. And equally it shouldn't be  
17 brought into the one (1) time contribution number for  
18 customers.

19                   And so doing -- doing a thirty (30) year  
20 net present value analysis is fine as long as you're not  
21 trying to do via that route, dinging the customer with  
22 saying, You're the marginal guy and I'm not; your power  
23 is the marginal one and mine isn't.

24                   MR. BOB PETERS:    In the few minutes I  
25 have left, gentlemen, I had a series of questions about -

1 - about the different way a rate could be applied. But  
2 I'm going to maybe ask it in a different way.

3 We heard from Mr. Ostergaard in terms of  
4 possible solutions that he sees working in Manitoba.

5 I want to give you equal opportunity to  
6 tell the Board what specifically you see as a -- as your  
7 preferred solution in Manitoba?

8

9 (BRIEF PAUSE)

10

11 MR. PATRICK BOWMAN: We summarized this  
12 in the evidence at page 7 to 8. But there is effectively  
13 three (3) pieces, if I understand your correction --  
14 question correctly, three (3) pieces to the overall  
15 recommendations we were putting forward.

16 First, on the rate front, maintain rates  
17 for all customer classes set on the -- and all customers  
18 set on the same principles, which is the embedded costs  
19 of Hydro's system. If that means that when load grows,  
20 everybody who's using power has to share in the costs of  
21 new resources, so be it. That's part of the overall  
22 principle of embedded cost rates.

23 Second, rather than the focus that's been  
24 there to date on how to target three (3) customers, spend  
25 the time figuring out how to get efficient price signals

1 in as -- in as many situations as possible to all of the  
2 different customers.

3                   It's -- it's a lost opportunity when we're  
4 sitting here today -- and -- and going to Mr. Turner's  
5 comments, for an example, that his plant could be running  
6 differently, in a way that would cause less costs on  
7 Hydro's system than it's running right now. And the way  
8 -- currently the rate structure offers him no opportunity  
9 to do that. And rather than being able to work with  
10 Manitoba Hydro towards a way to do that, he's having to  
11 come in and deal with the issues that -- that people have  
12 been focussed on here.

13                   And third, in the event that people are  
14 very concerned about these massive new loads, like --  
15 like the Albern Aluminum smelter or the other things  
16 that Mr. Lazare was talking about back in 2004, look at  
17 the way that a Tariff Supplement Number 6 could deal with  
18 something like that, similar to British Columbia.

19                   If it's causing major shocks to the system  
20 that are in the BC language, aligned with the rate base  
21 of the system, aligned with the investment in the  
22 capacity cost of the system, the ability to supply the  
23 load, then the -- then the new customer should to be made  
24 to bear those one (1) time costs.

25                   But those aren't -- that isn't the same as

1 charging the new customer for -- for Conawapa. It's  
2 charging them for a system that can reliably deliver the  
3 power on the capacity side.

4 The -- the point is, if you're bringing on  
5 a Conawapa and -- and every kilowatt hour being used in  
6 Manitoba is -- is in part being served by Conawapa, then  
7 every kilowatt hour needs to see that as part of its  
8 pricing.

9 MR. BOB PETERS: And I -- I understand  
10 that answer and appreciate it.

11 But in terms of some specifics, Mr.  
12 Bowman, can I interpret you to be saying that a 90  
13 percent baseline at heritage rates, with 10 percent of  
14 the customer's baseline exposed at a Tier 2 rate would be  
15 the right -- the right way to go in Manitoba?

16 MR. PATRICK BOWMAN: No, for two (2)  
17 reasons. First, because the 90 percent baseline, using a  
18 British Columbia type of example, wouldn't be at heritage  
19 rates. It would be at below heritage rates, with a  
20 runout rate at above heritage rate, such that the average  
21 cost in the heritage rate.

22 That - that's the princi -- principle  
23 behind when people use the term "inverted rates," there  
24 is an inverse impact on the two (2) different components  
25 of the rate block; one (1) goes up -- the tail rate --

1 one (1) goes down -- the base rate. It's an inverse  
2 impact.

3 But separately, I don't say that that's  
4 what one would impose today because that was the outcome  
5 of two (2) years of discussions in BC between the  
6 industrial customers and the utility, framed by a policy  
7 decision by government and facilitated by a staff member  
8 of the BCUC.

9 In Newfoundland, a similar process went  
10 on, that Mr. McLaren was involved in more than me, that  
11 led to a different type of -- of inverted rate being --  
12 being put forward to their Board, which does not yet have  
13 a pro -- proceeding to make a decision on; so it's not  
14 yet in place. But it would have had an inverted type of  
15 structure, different than BC's, because it suited  
16 Newfoundland's context.

17 Similarly, it was the industrial customers  
18 working with Hydro, and at times, an appointee from the  
19 Board, and eventually, bringing in other customer groups  
20 to come forward with a report on how that could be done.

21 I'm not saying that today I could grab a  
22 napkin and design the rates on the back of the napkin.  
23 There's -- there's work needed to be done to set out your  
24 objectives and to make sure that you're finding a way to  
25 do it that -- that works for people, including an

1 educational process, and building some buy-in, and let --  
2 letting people consider how they could respond to it, and  
3 seeing how it could work for Manitoba.

4 MR. BOB PETERS: In light of that last  
5 answer, Mr. Bowman, is it possible that a customer-  
6 specific rate within a range of a minimum and a maximum  
7 could be applied to perhaps the top four (4) or five (5)  
8 customers through such a process of discussion and  
9 negotiation in an attempt to -- to make it a win-win  
10 situation?

11 MR. PATRICK BOWMAN: Customer-specific  
12 baselines using a standard set of rates designed on a  
13 consistent set of principles could lead to a win-win  
14 situation. That's the basic framework that inverted rate  
15 have been applied.

16 Customer-specific rates, probably, is the  
17 most specific example I could imagine of -- of  
18 discrimination at that personal level that is as  
19 antithetical to a regulated environment as I -- as I can  
20 imagine.

21 MR. BOB PETERS: All right. I thank you  
22 for that.

23 And Mr. Chairman, I'm going to ask the  
24 permission of the Board and -- and the panel's counsel  
25 that I be given an opportunity to submit some written

1 questions to them that would complete the questions that  
2 I do have. And I would try to provide those timely so  
3 they could be answered, I'll say by early January.

4 And that would then complete my questions  
5 of this panel.

6 THE CHAIRPERSON: Is that okay with you,  
7 Mr. Landry?

8 MR. JOHN LANDRY: That's fine. I've  
9 spoke to Mr. Peters about that; that's fine.

10 THE CHAIRPERSON: Very good.

11 MR. BOB PETERS: And then I'd like to  
12 thank Mssrs. McLaren, Bowman, and Ostergaard. Those do  
13 complete my questions at this time.

14 And I do believe Mr. Landry may have some  
15 -- some re-examination issues he would like to address.

16 THE CHAIRPERSON: Mr. Landry...?

17 MR. JOHN LANDRY: Thank you, Mr. Chair.  
18 If I could just be given a moment to take a look at my  
19 notes?

20

21 (BRIEF PAUSE)

22

23 RE-DIRECT EXAMINATION BY MR. JOHN LANDRY:

24 MR. JOHN LANDRY: Sir, I have a few areas  
25 that shouldn't take me much more than five (5) minutes,



1 so if I can.

2 Mr. Ostergaard, I'll go to you first and--

3 MR. ROBERT MAYER: Much more than five  
4 (5) minutes is not available.

5

6 CONTINUED BY MR. JOHN LANDRY:

7 MR. JOHN LANDRY: I sort of looked up and  
8 saw that so I -- I gave myself a minute leeway there.

9 Mr. Ostergaard, in a question that you  
10 received from Mr. Williams, regarding Tariff Rate  
11 Supplement Number 6, he was asking you about the  
12 challenges with respect to that -- that rate.

13 Do you recall that?

14 MR. PETER OSTERGAARD: Yes.

15 MR. JOHN LANDRY: And the one that you  
16 mentioned as one of the challenges related to -- and I'm  
17 going to use my terminology; I think you and I know what  
18 it is -- the Northwest Transmission Line in British  
19 Columbia, correct?

20 MR. PETER OSTERGAARD: Yes.

21 MR. JOHN LANDRY: And it -- and it  
22 related to the -- just to get some background -- it  
23 related to the, I think you said three (3) or four (4)  
24 potential large mines that may in the near or medium  
25 future become viable?

1 MR. PETER OSTERGAARD: Yes.

2 MR. JOHN LANDRY: Now, it's in relation  
3 to that that I would like to ask the question, sir.

4 In that context, if I understood your  
5 answer, the -- the load that would be required for those  
6 mines was at or above the 150 MVA that's in Tariff Rate  
7 Supplement 6?

8 MR. PETER OSTERGAARD: Yes, we have one  
9 (1) mine there called Red Chris, which was in the  
10 vicinity of 65 megawatts. We had a second mine called  
11 Galore Creek, which could have been in the range of 115  
12 megawatts. And then there was a third mine -- actually  
13 more than -- more than a third mine that would have added  
14 significantly more, in terms of load requirements. And  
15 we also had in that particular region a independent power  
16 producer of 105 megawatts to provide generation.

17 So you can expect that, how do you plug  
18 all those variables into a formula to come up with an  
19 equitable allocation of -- of costs under a scenario  
20 where the mines themselves didn't know what their final  
21 loads were going to be, and in fact, none of them were  
22 going to get even close to 150 megawatts, for the  
23 possible reason that they might have to -- to contribute  
24 to generation, and where you also had a different time  
25 table. Nobody wanted to go first, in terms of being the

1 new mine, because they felt that they would have to  
2 shoulder a disproportionate burden of possible  
3 transmission reenforcement costs.

4 And you also had the very fact that you  
5 had a large independent power producer in that same  
6 region that could conceivably provide just about all the  
7 electricity required for the new mines.

8 MR. JOHN LANDRY: Sir, the question --  
9 and -- and that -- that is helpful background for the  
10 question that I have arising out of that.

11 And that is, sir, first of all, were you  
12 involved in the discussions that led to the -- the, at  
13 least attempted, resolution of -- of the issue?

14 MR. PETER OSTERGAARD: Yes.

15 MR. JOHN LANDRY: And, sir, in your  
16 discussions in respect of the attempt of resolution, when  
17 you have such a large load coming on the system, was  
18 there any discussion at that time about the concern that  
19 that load might have in relation to the export  
20 capabilities of Powerex or -- or Hydro, and the -- and  
21 the financial impact that would have on the -- on the  
22 trading revenue that we've been talking about?

23 MR. PETER OSTERGAARD: No, there was no  
24 concern whatsoever on that front. The main issue was to  
25 develop a long-term transmission solution for that region

1 to serve the region over many, many decades, as opposed  
2 to serve one (1) or two (2) possible mines with -- with  
3 inferior transmission voltage that, a few years down the  
4 road, would have to be reinforced.

5 MR. JOHN LANDRY: And, sir, did the --  
6 did the province, and -- and I guess BC Hydro, in those  
7 discussions consider the addition of mines to the  
8 province to be of a economic advantage to the province?

9 MR. PETER OSTERGAARD: Very much so. An  
10 additional benefit was to take the diesel generation in a  
11 First Nation's community called Iskut-Eddontenajon and  
12 provide it with line power from this new proposed  
13 transmission line.

14 MR. JOHN LANDRY: Sir, staying again with  
15 you, Mr. Ostergaard, on another topic, which relates to a  
16 question that came from Mr. Peters and the issue of  
17 revenue neutrality on a customer basis, which led you  
18 into some discussions about step rates, and I just wanted  
19 to make it sort of clear from the record -- for the  
20 record that is.

21 You referred to the -- I believe it was  
22 the 2002 Energy Policy of the -- the British Columbia  
23 government. Just so that, like I say, it's clear for the  
24 record, you -- you had a little discussion with Mr.  
25 Peters about whether that was a policy or a policy

1 direction.

2 I wonder if you could just make it clear  
3 to the -- for the record how that -- I think you called  
4 it a "policy direction" -- how the policy direction  
5 ultimately ended up into the proposal that is now  
6 implemented in rates.

7 And what I mean by that, sir: How did --  
8 how did it go from the government to BCUC to the  
9 stakeholders and -- and back through into rates?

10 Do you -- can you give us a little bit of  
11 a -- a very quick history lesson on that?

12 MR. PETER OSTERGAARD: And yes, I was  
13 referring to the 2002 Energy Plan. Policy Action Number  
14 21 reads:

15 "New rate structures will provide  
16 better price signals to large  
17 electricity consumers for conservation  
18 and energy efficiency."

19 It then goes on to describe what was meant  
20 by that, including:

21 "At the existing consumption level the  
22 total cost to the consumer, and the  
23 total revenue to the distribution  
24 company offering the rate, are  
25 unchanged.

1 The policy action also specifies that:

2 "The BC Utilities Commission will  
3 conduct a hearing to develop new  
4 stepped and time-of-use pricing for BC  
5 Hydro's industrial and large commercial  
6 customers. As a principle for stepped  
7 rates, the last block of energy consumed  
8 -- consumed should reflect the cost of  
9 new supply."

10 Then it goes on to set, basically, the  
11 criteria. The criteria were set in more detail in a  
12 subsequent terms of reference for a BCUC inquiry into the  
13 heritage contract and stepped rate structures.

14 The Commission conducted that inquiry in  
15 the summer of 2003, issued its report and recommendations  
16 to government that fall.

17 The government responded with a letter  
18 back to BC Hydro on the commission saying, Thank you very  
19 much; here are the recommendations we accept without  
20 qualification; here are the ones that we want to amend.  
21 This is the government talking.

22 And the next step was for BC Hydro to  
23 apply for rate schedules to deal with those stepped rate  
24 structures. That was done through a negotiated  
25 settlement process over a period of approximately six (6)

1 months, where the rate schedules for the 1823-A  
2 (phonetic), and the other ones listed in my response to  
3 the Information Requests, were articulated, framed by a  
4 bunch of what are called the "customer baseline load  
5 guidelines."

6                   So at -- at that point, the stepped rates  
7 were in -- put into place and -- with the following  
8 qualifications.

9                   That BC Hydro was to submit an annual  
10 report, or report card, on the transmission service rate  
11 structures every year with the BCUC. And after three (3)  
12 of those annual reports, BCUC is to submit an evaluation  
13 report on how well the stepped rate structures are doing.

14                   Basically, a report card to the province  
15 by the end of 2009.

16                   MR. JOHN LANDRY: Thank you, sir. Mr.  
17 Chair, I have one (1) more question --

18                   THE CHAIRPERSON: I think --

19                   MR. JOHN LANDRY: -- and I'm beyond the 4  
20 o'clock, so I --

21                   THE CHAIRPERSON: -- I think, Mr. Landry,  
22 the problem we have is a plane. Could we extent to you  
23 the same courtesy we have given to Mr. Peters?

24                   Could you provide the question and  
25 circulate it around and get the response?

1 MR. JOHN LANDRY: I will do that.

2

3 (MIPUG PANEL STANDS DOWN)

4

5 THE CHAIRPERSON: Thank you, sir. Thanks  
6 are due to the MIPUG Panel. You have provided good  
7 information and interesting views, and this will be drawn  
8 on in our subsequent deliberations.

9 This brings us to the end of the evidence  
10 phase of the proceeding. This proceeding had its origins  
11 with a concern expressed by Hydro, this now going back a  
12 few hearings ago.

13 Well, much is as it was then, much has  
14 changed. Loads. New export contracts, capital  
15 expenditure plans, currency values, the general economy,  
16 and the impact on all customer classes.

17 The outcome of this proceeding may be  
18 significant so it is important that each of the parties  
19 present provide careful and supportable closing  
20 statements, towards assisting the Board, not only in  
21 assessing the application as it has been presented, but  
22 also in considering any options that a party may consider  
23 feasible and in the public interest. We are to come  
24 together again on January the 20th after the holidays for  
25 the closing statement of Board counsel and the



1 Intervenor. Two days later, on January 22nd, we will  
2 hear from Hydro.

3 Speaking for the Board, the proceeding to  
4 date has been both informative and of great interest. We  
5 grasp the range of issues that will need to be taken into  
6 account in our deliberations that will follow January  
7 22nd. We appreciate the contributions of all parties  
8 present, including witnesses and presenters and we wish  
9 you all a good holiday season. Thank you.

10

11 --- Upon adjourning at 4:04 p.m.

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14 Certified correct,

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Cheryl Lavigne, Ms.

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