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MANITOBA PUBLIC UTILITIES BOARD

Re: MANITOBA HYDRO  
2004 GENERAL RATE APPLICATION

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

HELD AT:  
Public Utilities Board  
400, 330 Portage Avenue  
Winnipeg, Manitoba  
June 28th, 2004  
Volume VII  
Pages 1191 to 1355

## APPEARANCES

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

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1 --- Upon commencing at 9:04 a.m.

2

3 THE CHAIRPERSON: Good morning, everyone. I  
4 call the Hearing back to order.

5 Ms. Ramage, do we have anymore undertakings?

6 MS. PATTI RAMAGE: We expect that we're going  
7 -- we're going to be filing quite a few after the break, but  
8 we thought we'd consolidate it and give them to you all at  
9 once, rather than piecemeal.

10 THE CHAIRPERSON: Very good. On last  
11 Wednesday, Manitoba Hydro's Panel on the Cost of Service  
12 rates and DSM gave direct evidence. And this morning we will  
13 allow Professor Miller, aided by Mr. Lazar to ask questions  
14 of Manitoba Hydro's Panel. And then we will hear from Mr.  
15 Lazar.

16 Professor Miller...?

17

18 CROSS-EXAMINATION BY MR. PETER MILLER:

19 DR. PETER MILLER: Thank you, and good morning  
20 everyone.

21 You should all have a four (4) page crib-sheet  
22 for this cross-examination. Does everyone have that who  
23 needs it?

24 Fortuitously this was an insert in -- in  
25 Saturday's free press; a new PowerSmart newsletter. And

1 there was a -- a page there that accomplished a lot of what I  
2 had intended to do so -- and that's the one (1) right at the  
3 top of this packet; number one (1).

4                   And they're asking, what does PowerSmart mean  
5 to you? With nine (9) options and a blank to fill in others.  
6 And it says, choose one (1). So, I would like to ask Mr.  
7 Kuzcek what does PowerSmart mean to you? How -- how would  
8 you answer your -- your quiz?

9                   MR. LLOYD KUZCEK: I couldn't just answer  
10 with one (1) but just to give you some idea of the background  
11 here. What we -- what we're doing here is trying to get an  
12 idea of what people think.

13                   Two (2) things actually with the survey here.  
14 We want to get some feedback in terms of how many people are  
15 looking at the brochure and also we've been branding  
16 PowerSmart for I guess about fourteen (14) years now. And  
17 one (1) of -- one (1) of the things we are interested in is,  
18 what does that mean to people?

19                   And so some people it does mean energy  
20 efficiency; using energy efficiently. It does mean  
21 increasing my home comfort and you could go through the whole  
22 list and so it means something to -- something different  
23 possibly to different people.

24                   But we at Manitoba Hydro are pursuing a number  
25 of strategic objectives and goals for the company and it

1 means more than just one (1).

2 DR. PETER MILLER: Okay, which from the list  
3 would you pick out then if you don't want to pick one (1).

4 MR. LLOYD KUZCEK: Well, I -- I guess from  
5 Manitoba Hydro's perspective, if you look at our strategicals  
6 we -- the -- the latest version and probably the number one  
7 (1) would be -- being a leader in implementing cost effective  
8 energy conservation and alternative energy programs. That's  
9 -- that's probably the one (1) that is the highest priority  
10 in terms of PowerSmart.

11 But PowerSmart does more. It provides  
12 customers with exceptional value and so you get into, you  
13 know, increasing my home comfort and that's -- that's one (1)  
14 of the non-energy benefits of DSM.

15 Mr. Tory (phonetic) talked about the  
16 non-energy benefits of --

17 DR. PETER MILLER: PowerSmart programs.

18 MR. LLOYD KUZCEK: Yes, programs, yes. So --  
19 so one (1) of the things you try -- you do, is you -- you  
20 promote the non-energy benefits to consumers as well when  
21 you're promoting energy conservation programs.

22 A third strategic objective of the company is  
23 to provide customers with exceptional value. So, that's  
24 providing with -- providing customers with knowledge on  
25 energy efficiency and also knowledge and awareness of the

1 benefits associated with energy efficient products.

2           The fourth strategic objective that it does  
3 support is providing customers with an alternative form of  
4 resources and that's through DSM.

5           DR. PETER MILLER:     Hmm, hmm.

6           MR. LLOYD KUZCEK:     And that helps through the  
7 reduced energy use in Manitoba we, as you know, we can sell  
8 the energy in the export market and therefore increase our  
9 revenues for the corporation and keep rates low. So that it  
10 helps our financial situation.

11          DR. PETER MILLER:     Okay. Thank you, very  
12 much. Are there any that aren't there and that might go in  
13 the other category?

14          MR. LLOYD KUZCEK:     Well, some people might  
15 bring up sustainable development. And there's probably  
16 others, you know, nothing --

17          DR. PETER MILLER:     Yes. Well, let -- let me  
18 try one (1) and -- and see if -- if you would agree there.  
19 How about, on the gas side, keeping dollars in Manitoba's  
20 economy instead of sending them to Alberta?

21          MR. LLOYD KUZCEK:     Well, I couldn't say  
22 nobody would put that down.

23          DR. PETER MILLER:     Okay. But that's not a --  
24 a -- basically part of the consideration of Manitoba Hydro in  
25 developing it for -- for gas customers.

1 MR. LLOYD KUZCEK: That's correct.

2 DR. PETER MILLER: Yeah. Okay. Now, if we  
3 turn to page 2; this is taken from your introduction to the  
4 -- no, this says 2000 but I thought it was 2001 Plan.  
5 Anyhow, and that's half-way down the page.

6 If we look at the stated purposes of DSM, of  
7 -- there are two (2) that you mentioned; provide alternative  
8 cost effective methods of power supply, and minimize the  
9 total cost of energy services to customers, which might  
10 correspond on page 1 to the -- to the middle ones on the left  
11 and right side, saving money on my energy bills and keeping  
12 less electricity rates.

13 So, would you agree with that?

14 MR. LLOYD KUZCEK: Yes, yeah.

15 DR. PETER MILLER: However, those are the only  
16 purposes that are stated for the DSM program. Now, there's  
17 those two (2) very specific economic ones, in terms of  
18 benefits to -- to the -- the Corporation, and to that -- to  
19 the ratepayers, and -- and to the individual user of DSM  
20 services.

21 Is this -- does this mean that there's a  
22 discrepancy between the 2001 plan and your current view of  
23 DSM?

24 MS. PATTI RAMAGE: Excuse me, Mr. Chair, just  
25 before Mr. Kuzcek answers, I thought it might be helpful, it

1 certainly would be for me to identify -- I think Mr. Kuzcek  
2 and Mr. Miller know where this number 2 pages come from --

3 DR. PETER MILLER: Oh right, sorry about that.

4 MS. PATTI RAMAGE: -- but I'm not familiar  
5 with it.

6 THE CHAIRPERSON: Thank you, Ms. Ramage.  
7 Professor Miller...?

8 DR. PETER MILLER: Yes, this page is from the  
9 Appendix 8, I believe it is, which is the 2001 PowerSmart  
10 Plan.

11

12 CONTINUED BY DR. PETER MILLER:

13 DR. PETER MILLER: Okay. So -- so, the  
14 question was, this states perhaps two (2) of the -- the nine  
15 (9) goals on your quiz, and does this mean that there is an  
16 evolution in the view of what DSM -- the purposes of DSM or  
17 how -- how can we reconcile that?

18 MR. LLOYD KUZCEK: I -- I think your -- your  
19 term evolution is probably correct. When the new plan comes  
20 out, I think we would probably articulate it a little  
21 different and broader, and include those strategic goals that  
22 we -- that DSM does support, not just the primary goals.

23 So -- so, I mentioned four (4) of them earlier  
24 and I think they all would be on -- on the -- in the new  
25 plan, in terms of our objective.

1 DR. PETER MILLER: Okay, thanks for that. And  
2 let me approach this through one (1) other manner. You  
3 mentioned that you have a new tenth goal in your strategic  
4 plan, which I'm quoting here; I got it from the page 4 of the  
5 -- of the Annual Report:

6 "Be a leader in implementing cost  
7 effective energy  
8 conservation and alternate energy  
9 programs."

10 Does the word cost effective there,  
11 essentially confine it to the -- to the two (2) objectives in  
12 the 2001 plan? I mean, you don't speak of cost effective  
13 working relationships with aboriginal peoples, or cost  
14 effective safety measures. So, I'm -- I'm wondering why the  
15 word cost effective is used in this -- in this one (1)  
16 instance.

17 We know from these Proceedings that everything  
18 is under scrutiny, every expense. So, why is this particular  
19 one (1) singled out?

20 MR. LLOYD KUZCEK: The only reason that I  
21 could think of is because we have -- well, I don't think it's  
22 the only one (1) that's singled out by the way. I think when  
23 we talk about developing wind, we also talk about developing  
24 wind in terms of it being cost effective.

25 With DSM, as you know, we have two (2) tests

1 that we use to determine whether or not we're going to  
2 proceed with a program, and you know, the TRY, the total  
3 resource costs, and the --

4 DR. PETER MILLER: Hmm hmm.

5 MR. LLOYD KUZCEK: -- the RIM test; the Rate  
6 Impact Measure test. So, those are the tests that we use,  
7 and that's what's being referred to as cost effective.

8 DR. PETER MILLER: Now, in many of the other  
9 programs like establishing good working relationships, or  
10 like safety, you -- you don't have comparable tests, do you?

11 MR. LLOYD KUZCEK: We -- we have tests where  
12 it's appropriate. We also have customer service programs  
13 that promote conservation that we don't use tests like that.

14 DR. PETER MILLER: Hmm, hmm.

15 MR. LLOYD KUZCEK: And -- you know, the --  
16 like, we could go through some of them, the workshops, the  
17 seniors-wise program and there's a whole list of them that  
18 don't have to pass those tests.

19 So, it -- it isn't a strict adherence to that,  
20 but, the incentive based programs have to pass -- pass those  
21 tests.

22 DR. PETER MILLER: Okay. Thanks for that.

23 Now, I'd like to -- to go on -- there was an earlier  
24 discussion with the Board that -- about bringing material  
25 over from the Wuskwatim proceedings. And -- so, there's just

1 one statistic, my favorite statistic that I'd simply like to  
2 confirm in this forum.

3                   And I'm sorry that I don't have the -- haven't  
4 reproduced the documents. But, in that same 2001 plan which  
5 I understand is the most recent one that you have there is a  
6 table on page 25, table 2.4 which is the megawatt and  
7 gigawatt hours of savings and utility costs for the years  
8 1989-90 to 2000-2001; assess a twelve (12) year period.

9                   And the residential annual saving is thirty  
10 seven point six (3.6) gigawatt hours at a cost of 3.9 million  
11 dollars. And I reckon that's barely over a penny a kilowatt  
12 hour, if -- if my arithmetic is correct and that the  
13 percentage of saving compared to the total residential  
14 consumption of that year five two eight two (5282) gigawatt  
15 hours, is seven (7) tenths of a percent.

16                   Do those figures sound reasonable?

17                   MR. LLOYD KUZCEK: They sound reasonable,  
18 yeah.

19                   DR. PETER MILLER: Okay. So, whenever we hear  
20 the -- the word aggressive use for DSM, we have to juxtapose  
21 that measure of achievement. Do you have any comment on that  
22 juxtaposition?

23                   MR. LLOYD KUZCEK: I think I've got a few  
24 comments. In -- in the terms of being aggressive one has to  
25 view that and judge that in -- in the context of the

1 environment that you're at and the period of time that you're  
2 at.

3           In the 90's, Manitoba Hydro had a PowerSmart  
4 program that, I believe -- this was prior to my time, my  
5 understanding of what was going on in the industry was  
6 considered aggressive -- certainly was aggressive in Canada.

7           Our program has evolved since the 90's like a  
8 lot of programs have in North America. A lot of US utilities  
9 and Canadian utilities, their programs slowed down in the  
10 mid-90's as you know, when the market changed.

11           And as we approached the year 2000, the  
12 reverse happened. People started picking up their programs  
13 because of the value of DSM programs and other  
14 considerations, I guess.

15           And so throughout that period, Manitoba Hydro  
16 has had an aggressive DSM plan. And I think in the context  
17 of today, and we've filed evidence to support that, that our  
18 program is still aggressive in Canada and North America.

19           And you mention numbers in terms of what we  
20 achieved on -- in the residential market in the 90's and  
21 those numbers are approximately correct. We've taken a  
22 number of steps to -- to change that as we're moving forward.

23           We've structured our PowerSmart design program  
24 into residential and commercial to ensure that the  
25 residential market doesn't get overlooked, that's one of the

1 structural changes that we've done.

2           The other thing that we have done and we keep  
3 referring back to the 2001 PowerSmart plan and I guess I  
4 should -- should talk about that a bit. Even though we have  
5 a plan that's formally documented as 2001, we are actually  
6 progressing and we've launched a number of programs,  
7 including programs that aren't in that plan.

8           So, our plan really is a modification of that  
9 plan and we're moving forward with a number of programs. And  
10 I think you mentioned thirty (30) some gigawatt hours that we  
11 achieved in a residential market. And I think it's  
12 forty-four (44), if I am not mistaken, in 2001.

13           But, we just launched two (2) programs and  
14 we're about to launch another that's going to launch another  
15 that's going to target a hundred (100) gigawatt hours by  
16 2010/'11 -- '11/'12 sorry.

17           And the market potential studies suggests that  
18 there's in that time frame, somewhere around two hundred and  
19 twenty-five (225) gigawatt hours, and we're looking at  
20 launching more programs to achieve those results as well.

21           So, yes, in the '90s, we didn't achieve as  
22 much in the residential market as we did in the -- certainly  
23 the industrial market, but that was the '90s, and we're  
24 moving forward, and we've -- we're certainly -- plan to  
25 achieve -- in fact, probably more so, a greater percentage in

1 the residential market than in the industrial market, in the  
2 -- going forward from this point on.

3 DR. PETER MILLER: There's more to accomplish  
4 there, I guess?

5 MR. LLOYD KUZCEK: Correct. I agree with you.

6 DR. PETER MILLER: Okay. Thanks for that.

7 Now, I'd like to turn to the diagram of home and water  
8 heating costs, number 3, page 3 of my handout.

9 As the -- the Panel will know from -- from  
10 previous hearings, a concern about Hydro rates and in  
11 particular, inverted rates and so on, is that it might  
12 unfairly impact electric -- all electric customers.

13 And -- and I guess the assumption is that the  
14 cost of electric heating far exceeds the cost of gas heating.  
15 I don't see that large a discrepancy here, if you're talking  
16 about say a mid efficiency furnace, is a maybe thirty-one  
17 dollars (\$31) a year.

18 Do you see that in the current pricing of gas  
19 and electricity, that there is a significantly greater impact  
20 on electric heating customers than gas heating customers?

21 MR. LLOYD KUZCEK: Based on the prices that  
22 we're using in here, if you compare the high efficiency to  
23 the electric, gas costs about 83 percent of the electric  
24 customers. So, is that significant? I guess that's -- and  
25 I'm not sure how you would judge that; the gap is narrow,

1 certainly.

2 DR. PETER MILLER: Hmm, hmm.

3 MR. LLOYD KUZCEK: But that depends on where  
4 prices are, going forward.

5 DR. PETER MILLER: And when you look at water  
6 heating, you're equal, correct?

7 MR. LLOYD KUZCEK: Yeah.

8 DR. PETER MILLER: So, was that part of your  
9 consideration, because you -- you faced this problem to a  
10 lesser extent with your -- your flat rate; is that correct?  
11 I mean, it has a somewhat higher impact on all electric  
12 customers. Maybe, Mr. Wiens, can -- can speak to that? The  
13 -- the all electric customers would have a slightly higher  
14 impact from the rates you're proposing, the uniform ones?

15 MR. ROBIN WIENS: In this Application?

16 DR. PETER MILLER: Yes.

17 MR. ROBIN WIENS: Yes, there's no question  
18 about it.

19 DR. PETER MILLER: Yeah.

20 MR. ROBIN WIENS: The residential average  
21 we're looking at overall in -- in the first year, is about 4  
22 percent and that's the low end of the spectrum. The  
23 increases are quite a bit more modest than that.

24 DR. PETER MILLER: Hmm hmm.

25 MR. ROBIN WIENS: And as you get up to the

1 heavy use for electric heating, you're getting up into the  
2 five (5) and 6 percent range, and that is obvious fall out  
3 from the fact that we priced the whole of the residential  
4 class increase, into the tail block.

5 DR. PETER MILLER: Right, thank you. Have you  
6 -- and this is perhaps back to Mr. Kuzcek, when you think of  
7 those -- those impacts, is there any programming, DSM  
8 programming, that is trying to address groups where the --  
9 the impacts may be greatest?

10 MR. LLOYD KUZCEK: If you're talking in terms  
11 of these rate increases, we -- we haven't discussed that at  
12 this point, but we have done that in the past and as  
13 instructed, I believe by the PUB, but with the diesel  
14 hearings, we're -- we're doing diesel rate increases that  
15 just recently took place. We're doing more in those  
16 communities to try -- try to help them out in -- in the  
17 interim.

18 We also are focusing -- our geothermal program  
19 is focused, although we provide customers with information in  
20 general, across Manitoba, whether you use electric or gas  
21 heat or have access to those energy sources, we provide you  
22 with information on the use of geothermal.

23 But we are internally targeting the electric  
24 market more with the geothermal program than we are with the  
25 gas customers. The gas -- served -- service areas.

1 DR. PETER MILLER: So, in our case they would  
2 end up with significantly lower operating costs than -- than  
3 the -- the gas customers.

4 MR. LLOYD KUZCEK: Their operating costs  
5 would be lower, yes. And, of course, our concern with any  
6 rate structure change if we're talking inverted rates, is the  
7 -- one (1) of the impacts that -- that we'd be concerned  
8 about is the geothermal market and what that does to it. But  
9 we'll be looking at with the study that we're undertaking  
10 right now.

11 DR. PETER MILLER: Okay, thank you for that.  
12 I noticed -- and this is for Mr. Wiens -- that  
13 in your rebuttal evidence, there were two (2) of Mr. Lazar's  
14 proposals which didn't seem to receive mention, or maybe one  
15 (1) of them was mentioned at the introduction but no comment  
16 on it. And I guess I'm wondering if silence means agreement?

17 The first of these is the idea of a hook-up  
18 charge to reflect the cost of increased service places  
19 additional demand on the system and -- and hence it's going  
20 in at marginal costs to a system within -- then -- and Mr.  
21 Lazar proposed a -- a charge -- a hook-up charge that would  
22 be rebated for energy efficient construction at two (2)  
23 different levels.

24 Has there been any reflection on that?

25 MR. LLOYD KUZCEK: It's probably best for me

1 to answer that.

2 DR. PETER MILLER: Okay.

3 MR. LLOYD KUZCEK: I -- I chose not to  
4 respond to that inner-rebuttal but that doesn't meant we  
5 agree with it. I guess, in general, there's -- there's a  
6 number of ways that you can achieve market transformation and  
7 with Mr. Lazar's proposal, I think that would -- that would  
8 achieve it in the new home program.

9 Because if the customer had the choice of a  
10 two thousand dollar (\$2000) hook-up charge, or spending three  
11 thousand dollars (\$3000) on the energy efficiency  
12 improvements that would be required to achieve that -- that  
13 level that you would -- that would be required to not pay  
14 that fee. I think most people would actually go there.

15 Our overall strategy is to transform the  
16 market through eventually codes and standards, as opposed to  
17 a hook-up fee. And so, at this point we've -- we've talked  
18 about it internally a bit but I don't think we would prefer  
19 to go down the route of charging two thousand dollars (\$2000)  
20 for hook-up fees.

21 DR. PETER MILLER: Don't you have to achieve  
22 a certain level of -- of existing buy-in before you invoke  
23 standards, or isn't that the normal pattern? And the  
24 question is, how do you get sufficient platform of -- of  
25 adoption to then add to that -- the codes and standards that

1 get the rest?

2 MR. LLOYD KUZCEK: Yes. I -- I guess, Mr.  
3 Miller, it depends on how quick you want it -- you want to  
4 get there and how -- how -- what's the techniques you want to  
5 use.

6 Whether you want to ram it down your  
7 customer's throat, or you want to slowly transform the  
8 customer, so there's the more market acceptance. And you --  
9 you have -- I guess you're balancing achieving your DSM or  
10 your conservation objectives with customer service  
11 objectives.

12 And so the balance that we've decided to go  
13 down is to transform the market by having customers accept it  
14 in a more -- oh, satisfactory fashion as opposed to it -- I  
15 see that as the hard stick actually, in --

16 DR. PETER MILLER: Mmm hmm.

17 MR. LLOYD KUZCEK: -- something like a two  
18 thousand dollar (\$2000) hook-up fee.

19 DR. PETER MILLER: But isn't part of the  
20 problem that it's the builder who would pay the hook-up fee  
21 and the -- the homeowner who would make the savings. Isn't  
22 that part of the economic dilemma there, and that the hook-up  
23 fee as they've tended to address.

24 MR. LLOYD KUZCEK: I think the home-owner --  
25 or the builder would have to pay the hook-up fees if he was

1 building the -- the home but the -- ultimately the home-owner  
2 would pay for it because the builder would just add it onto  
3 his price.

4 DR. PETER MILLER: That's true. And then --  
5 in -- in which case the -- since the measures are cost  
6 effective, the homeowner would be at least as well off.

7 MR. LLOYD KUZCEK: That's correct.

8 DR. PETER MILLER: Okay.

9 MR. LLOYD KUZCEK: And I guess that -- that  
10 applies whether you have the hook-up fee or not. So, and I  
11 guess I should clarify it, when I say the homeowner is better  
12 off. It really depends on the -- the individual case and --  
13 and that's part of the problem with DSM. Is if all customers  
14 bought a home, lived there long enough, that's true, some  
15 customers, seniors, for example, may want to move to a  
16 seniors home in a couple of years, three (3) years, and it  
17 may not be cost effective for those customers.

18 There's other customers that may be looking at  
19 moving in the near future, and that wouldn't be cost  
20 effective for them as well. And there's the other issue of  
21 customer choice of course, and where they want to put their  
22 money.

23 DR. PETER MILLER: At the same time though,  
24 there -- it is costing the system, in other words, talk about  
25 freedom of -- of choice, but the freedom of choice costs

1 everyone, costs the system more, by increase in demand,  
2 that's incremental power; is that correct?

3 MR. LLOYD KUZCEK: In general, I guess that  
4 would be correct, yeah.

5 DR. PETER MILLER: Yeah. Let me move on to  
6 the other measure that was proposed. In your responses to  
7 us, you indicated that there's a different economic reality  
8 for gas customers and electric customers, in that energy  
9 saved through DSM for an electric customer, can be sold at a  
10 -- at a higher price, but not so with a gas customer; is that  
11 correct? Is that your -- your testimony?

12 MR. LLOYD KUZCEK: Can you just repeat that,  
13 Mr. Miller?

14 DR. PETER MILLER: You can pay for a DSM  
15 investment from the utility standpoint, by the earnings --  
16 the export earnings that you can make on the electricity that  
17 otherwise a domestic customer would have consumed.

18 So, you have a pot of money, using your cost  
19 effective standard, to invest in DSM, but I think -- let's  
20 see TREE-RCM-MH-I-41, I think is where you responded to this.

21 But if the gas customer reduces consumption,  
22 you don't make any money?

23 There is a difference between the two (2)  
24 businesses. And you are correct with the electric market,  
25 because of our ability to export the energy at a higher price

1 we can actually realize revenues to pay for the program costs  
2 and any incentives that we would provide to customers with  
3 DSM programs.

4                   Now, you can have -- you can actually have  
5 programs that are cost neutral, and still pass those tests, I  
6 guess --

7                   DR. PETER MILLER: Like a loan --

8                   MR. LLOYD KUZCEK: The loan program's and  
9 no-cost program. Yeah, so whether it's a gas customer or  
10 electric customer, it really doesn't matter, it's cost  
11 effective.

12                   On the gas side, as you know, there -- there  
13 isn't that opportunity to get those revenues to pay for the  
14 program costs and the incentive costs.

15                   DR. PETER MILLER: Now, one (1) of the  
16 intentions, I -- I believe, or -- or one (1) of your  
17 strategies is to try to have a common DSM program, and I  
18 realize there's some differences, but as much as possible, in  
19 common between gas and electric.

20                   And so that -- the economics on the gas side,  
21 would seem to affect the -- your willingness to invest on the  
22 electric side, given that it has to be similar; is that  
23 correct?

24                   MR. LLOYD KUZCEK: No, actually it's not  
25 correct. We will still implement programs that are just

1 targeted, the electric market, if it still makes sense for  
2 our electric business, as well as the consumers of Manitoba.  
3 And an example of that is their recently launched insulation  
4 program. It's just for electric customers.

5 DR. PETER MILLER: Okay.

6 MR. LLOYD KUZCEK: Gas customers don't  
7 qualify.

8 DR. PETER MILLER: Thank you. Now, this is  
9 the background to Mr. Lazar's other proposal you didn't  
10 comment on, which is the system benefit charge, as a means of  
11 creating the revenues for DSM investment that you already  
12 have on the electric side. Again, can I interpret silence as  
13 agreement?

14 MR. LLOYD KUZCEK: Well, I'm not -- I'm not  
15 sure what agreement means in this case, but probably we're  
16 more in agreement with the proposal here than we are in the  
17 other one (1).

18 Since purchasing Centra Gas, Manitoba Hydro  
19 has had some ongoing discussions with the Government on gas  
20 DSM programs and how best to implement them. Our legislative  
21 mandate right now, is -- was written for the electric  
22 business, not the gas business.

23 So there's one (1) of two (2) ways that  
24 something like that could -- could happen, I guess; one (1)  
25 would be through the Public Utilities Board, the other would

1 be through legislative changes possibly.

2 Manitoba Hydro is not opposed to gas DSM  
3 programs.

4 DR. PETER MILLER: Might you include something  
5 like that in your next rate application then?

6 OBJ MS. PATRICIA RAMAGE: If I could interject, in  
7 terms of rate applications, we're -- we're now on to the gas  
8 side of the business and this is an electric GRA. I don't  
9 think this panel was prepared to answer what will happen on  
10 the Centra Gas side of the business.

11 DR. PETER MILLER: If I may comment on that.  
12 This is a case where integration at the corporate level  
13 hasn't yet reached integration at the regulatory level. And  
14 I see that as -- as a problem.

15 And since this does have an impact on some  
16 programming, maybe there are exceptions, but under the  
17 emphasizing cost recovery programs rather than others, it --  
18 it seems to me that it is relevant to the electric rate  
19 hearing.

20 MR. LLOYD KUZCEK: Patti, if could just add a  
21 comment. Dr. Miller, I have instructed my staff to design  
22 programs not to -- not to go forward or recommend any  
23 programs because of the gas business.

24 So, I don't think there's any barriers with us  
25 proceeding with -- pursuing electric programs because of us

1 owning the gas business, as well.

2

3 CONTINUED BY DR. PETER MILLER:

4 DR. PETER MILLER: Okay. Thank you. So,  
5 you're willing to spend money on the gas side if that's  
6 necessary for a common program.

7 MR. LLOYD KUZCEK: I don't think I said that.  
8 I --

9 DR. PETER MILLER: No --

10 MR. LLOYD KUZCEK: -- I instructed staff to  
11 proceed with all electric programs that makes sense and if --  
12 if you have to exclude the gas customers, so be it --

13 DR. PETER MILLER: Okay --

14 MR. LLOYD KUZCEK: -- but we should still  
15 proceed with those programs that make sense.

16 DR. PETER MILLER: Okay.

17 MR. LLOYD KUZCEK: So, it's not causing any  
18 barriers right now for the electric company -- or for the  
19 people designing programs that just make sense or -- pass  
20 those tests for the electric business.

21 DR. PETER MILLER: Okay. Thanks for that  
22 clarification. Let's move on to trucking. On pages 13 and  
23 fourteen (14) of the -- Hydro's rebuttal, the -- there's a  
24 discussion of economic rents from the almost windfall export  
25 sales that preceded the last years drought.

1                   And you use the analogy assigning benefits in  
2 proportion to usage of generation and transmission systems is  
3 no longer appropriate way of distributing that economic rent  
4 on a system that's a past investment.

5                   And you say:

6                                 "That type of allocation would be  
7 analogous to the Government of  
8 Alberta, rebating its resource  
9 revenues to -- to petroleum  
10 products customers and thereby  
11 making the trucking industry, the  
12 largest beneficiary of Alberta's  
13 greatest resource."

14                   Is -- I'm wondering if that position is -- you  
15 view that as similar to Mr. Lazar's recommendations at  
16 several points that the benefits should be distributed  
17 independently of -- of consumption?

18                   He mentioned several possibilities. Something  
19 like you know, the Alaska permanent resident payment to  
20 individuals or -- or the Heritage Fund in Alberta, that kind  
21 of thing. Do you see that as a similar idea?

22                   MR. ROBIN WIENS: I -- I don't think that we  
23 would necessarily be recommending going as far as something  
24 like the Alaska Heritage Fund. But, we do see some merit in  
25 -- in decoupling to the extent that we can, given our

1 tradition, our histories, and the economics here; decoupling  
2 to the extent possible from the level of consumption, in  
3 terms of the distribution of these benefits.

4           There's a number of ways to do that and we  
5 have looked at a couple of them in -- in the report that we  
6 filed with this Board, it doesn't mean to say that we are  
7 necessarily prepared to offer something that is radically  
8 different from what we do now. But we do like the idea of  
9 looking at alternatives.

10           DR. PETER MILLER: And -- and don't have any  
11 particular ones to recommend at this point?

12           MR. ROBIN WIENS: Well, I guess the closest  
13 one (1) that we've come to recommending is that we have -- we  
14 have said in our response to, I believe the Public Utilities  
15 Board Information Request Second Round Number 3, that in  
16 principle, we -- we accept the recommendations of the NERA  
17 Report; that's as far as you've said we are able to go as a  
18 Corporation at this time.

19           DR. PETER MILLER: Okay. Thank you, very  
20 much. And finally, on page 22 of your rebuttal evidence, you  
21 state that you're referring to the inverted rate report and  
22 which is due at the end of this year, I believe. And you say  
23 that if the Manitoba Hydro's Executive and Board concur with  
24 the recommendation of the study, you will include it in your  
25 next GRA.

1 I guess my question has to do with the nature  
2 of the -- of the report and its being made available to the  
3 public and to other Inter -- Intervenors to comment on.

4 Is it -- is it the policy, I mean, we have in  
5 a recent example, it's the NERA Report; does the Board have  
6 to approve any report before it is released to the public?

7 MR. ROBIN WIENS: Are you asking for a legal  
8 opinion?

9 DR. PETER MILLER: No, it's -- it's Manitoba  
10 Hydro Policy. I don't know that -- if there's a legal  
11 requirement, I'm just talking about your practice?

12 MR. VINCE WARDEN: Yes, typically, that --  
13 that is the practice; the Manitoba Hydro Board would approve  
14 it before it sub -- submitted to this Board.

15 DR. PETER MILLER: Is there any danger that  
16 recommendations might be lost or -- or changed in certain  
17 ways, from -- from that particular practice, before we know  
18 what the recommendations are?

19 In other words, what -- what kind of a  
20 filtering affect would that -- would that have, to have it  
21 internally screened?

22 MR. VINCE WARDEN: Well, I wouldn't call it  
23 internally screened. Manitoba Hydro has to develop its  
24 position, and the position of the Board of Manitoba Hydro  
25 represents that position.

1                   So, while the -- the NERA report is -- that  
2 has been submitted with these Proceedings, is -- is  
3 interesting, and useful for purposes of discussion, it  
4 doesn't represent Manitoba Hydro's position at this point in  
5 time.

6                   DR. PETER MILLER: Yeah, I'm just -- I'm  
7 trying to distinguish two (2) things, one (1) is the release  
8 of a -- of a report, and the opportunities to comment on that  
9 report. And -- and I want to distinguish that from the  
10 ultimate decisions by the Corporation on whether to accept or  
11 reject various recommendations in the report; it's the first  
12 phase that I'm talking about. The -- the release of the  
13 report.

14                   MR. VINCE WARDEN: Yeah, well, I think the --  
15 the process allows Intervenors and other interested parties  
16 ample opportunity to comment on Manitoba Hydro's position.  
17 We clearly stated that this Application does not reflect any  
18 of the recommendations contained in the NERA Report, and that  
19 future Applications will, if Manitoba Hydro deems it to be  
20 appropriate, includes such recommendations and have  
21 opportunity for all parties to comment at that time.

22                   DR. PETER MILLER: I guess the difference  
23 would be that the NERA Report, as you indicate, was released  
24 without the adoption of the recommendations in your  
25 Application, whereas the -- this -- the one (1) we're talking

1 about, is to be the basis for the next GRA, if -- if I  
2 understand correctly; the statements that were made in the  
3 rebuttal?

4 MR. VINCE WARDEN: I think what you said is  
5 correct, yes. Yes, the -- the -- any -- any recommendations  
6 that flow from the NERA Report, will be incorporated in -- in  
7 future GRA's, if deemed appropriate by Manitoba Hydro.

8 DR. PETER MILLER: Now, the -- the analogy  
9 though would be -- it'd take the -- the inverted rate study  
10 -- there won't be the -- the double sequence if, you know,  
11 first the release as an report and opportunity to comment on  
12 it. And -- and then implementation of inverted rates would  
13 have to -- it would be two (2) processes from now, rather  
14 than -- than one (1) -- if I'm making myself clear; probably  
15 not?

16 MR. VINCE WARDEN: Well, I would think if  
17 inverted rates are deemed to be appropriate and that report  
18 is filed after approval of the -- of the Manitoba Hydro  
19 Board, then we will proceed in that direction with future  
20 rate applications. And at that point, all -- all Intervenors  
21 will have an opportunity to -- to comment.

22 DR. PETER MILLER: On both the report and the  
23 recommendations?

24 MR. VINCE WARDEN: Yes, exactly.

25 DR. PETER MILLER: Yes. Trying to look at

1 another point of possible difference. The -- the NERA report  
2 was commissioned -- you -- you commissioned an outside  
3 consultant to do that. Are you doing that with the inverted  
4 rates as well?

5 MR. VINCE WARDEN: Yes.

6 DR. PETER MILLER: Okay. Thank you.

7 At this point, I would like to turn the  
8 cross-exam over to Mr. Lazar on the more technical issues.

9 MR. JAMES LAZAR: Thank you, and good  
10 morning. It's nice to be here again.

11 THE CHAIRPERSON: Before you -- before you  
12 begin Mr. Lazar. I was just going to welcome you back to  
13 Winnipeg. You finally got us on a day when it's actually  
14 warm.

15 MR. JAMES LAZAR: And thank you again, very  
16 much for accommodating my -- my schedule this week. It's a  
17 bit of a chaotic time for me and I really appreciate it.

18

19 CROSS-EXAMINATION BY MR. JAMES LAZAR:

20 MR. JAMES LAZAR: I have some questions on  
21 four (4) -- four (4) issues. And I'll just list them off so  
22 you can kind of a heads-up of the topics.

23 The first is the level of residential rate  
24 inversion.

25 The second is potential for inverted

1 commercial and industrial rights.

2 The third have to do with the export credit.

3 And the last has to do with the load factors  
4 of the -- some of the DSM programs that are identified in the  
5 rebuttal evidence. And that fourth group will reference the  
6 fourth page of the hand-out that Dr. Miller provided earlier.

7 At page 24 and twenty-five (25) of the  
8 rebuttal evidence, you recompute TREE's estimate of the level  
9 of rate inversion justified by the load factor difference for  
10 usage below two hundred and fifty (250) kilowatt hours and  
11 usage above that level; is that correct?

12 MR. ROBIN WIENS: Yes.

13 MR. JAMES LAZAR: And the result of that  
14 calculation takes the generation and transmission load factor  
15 and the distribution load factor into account and computes a  
16 cost inversion of just under a penny a kilowatt hour?

17 MR. ROBIN WIENS: Yes.

18 MR. JAMES LAZAR: That, just to be clear,  
19 that does not in any way address the proposal that TREE has  
20 also made for a rate inversion element based on the  
21 difference between older and lower cost resources versus  
22 newer and higher cost resources; is that correct?

23 MR. ROBIN WIENS: No, that strictly addresses  
24 the issue of distribution load factor.

25 MR. JAMES LAZAR: Thank you. Will the

1 inverted rate study that's referenced at the bottom of page  
2 25 also look at the cost differentials between older and  
3 lower cost versus newer and higher cost resources?

4 MR. ROBIN WIENS: The study will definitely  
5 look at what the difference is between current embedded costs  
6 for the Manitoba Hydro Generation and Transmission and  
7 marginal costs of those functions.

8 We have not specifically instructed the  
9 consultant to look at the cost of different vintages of  
10 generation.

11 MR. JAMES LAZAR: What consultant is  
12 preparing that work for you?

13 MR. ROBIN WIENS: It's the same consultant  
14 that prepared the -- that prepared the study we filed here,  
15 which is National Economic Research Associates.

16 MR. JAMES LAZAR: Thank you. I'm going to  
17 change now to the second topic of commercial and industrial  
18 rates.

19 MR. ROBIN WIENS: At page 18, line 17, you  
20 indicated that MIPUG has recognized the issue of large  
21 customer rates diverging from marginal costs. And that  
22 references MIPUG's testimony.

23 Are there any specific proposals that either  
24 MIPUG or Manitoba Hydro have made in this proposal to move  
25 large customer rates for marginal usage significantly closer

1 to marginal costs?

2 MR. ROBIN WIENS: No.

3 MR. JAMES LAZAR: Would you agree that the  
4 rolling baseline proposal discussed by TREE is one (1) way to  
5 do this without shifting costs between customer classes?

6 MR. ROBIN WIENS: Yes.

7 MR. JAMES LAZAR: Does Manitoba Hydro object  
8 to TREE's recommendation that Manitoba Hydro measure the  
9 impact that one (1) or two (2) example rate designs of the  
10 rolling baseline approach be included in a report to the  
11 Board later this year?

12 MR. ROBIN WIENS: We've instructed the  
13 consultant to look at invertebrate options for all classes of  
14 service, including industrial class.

15 MR. JAMES LAZAR: Well, let's now turn to the  
16 -- the export credit. The current practice as I understand  
17 it, subtracts only water rent, fuel and imports from export  
18 revenue in computing the export credit, is that correct?

19 MR. ROBIN WIENS: A portion of those water  
20 rentals, but, yes correct.

21 MR. JAMES LAZAR: And the NERA -- I'll call it  
22 the NERA methodology, uses a fully allocated cost approach  
23 and subtracts the fully allocated cost of the generation from  
24 the export revenues in computing an export credit, is that --

25 MR. ROBIN WIENS: That's correct.

1                   MR. JAMES LAZAR: What alternatives have been  
2 proposed in this docket to the current practice of allocating  
3 exports credits on the basis of generation and transmission  
4 costs and computing the export credit, as it has historically  
5 been calculated?

6                   MR. ROBIN WIENS: If you're -- if by that you  
7 mean what methods have been used in this particular  
8 application and what is before the Board as part of this  
9 application, Manitoba Hydro was directed in Order 703 to  
10 prepare a cost of service study, following certain specific  
11 instructions regarding a number of factors, one (1) of which  
12 was the treatment of export revenues.

13                   And export revenues are treated in the 2003/04  
14 perspective cost of service study in the same manner as which  
15 they -- as they had been treated prior to 2002. Which is to  
16 say, that we had deducted the variable costs from the overall  
17 export revenues.

18                   And we've allocated those export revenues on  
19 the basis of customer usage factors with the demand and  
20 energy split of those usage factors being on the same basis  
21 of generation and transmission.

22                   MR. JAMES LAZAR: That's what in the  
23 application. But Manitoba Hydro has also presented in this  
24 docket the NERA methodology, correct?

25                   MR. ROBIN WIENS: We have filed it. But, we

1 have not filed it as part of this application. Manitoba  
2 Hydro has filed the NERA report and its recommendations, but,  
3 we have not incorporated any of those into the remainder of  
4 the application.

5

6

(BRIEF PAUSE)

7

8 MR. ROBIN WIENS: The report itself and the  
9 responses to some of the information requests do indicate  
10 what impacts we expect from the application or inclusion of  
11 the -- of the NERA recommendations.

12 But, that is the extent to which we've  
13 discussed them in this application.

14 MR. JAMES LAZAR: But in the rebuttal evidence  
15 you've said in a number of places, a concern with the current  
16 methodology and have -- it certainly looks to me as though  
17 you've made positive noises about changing that methodology  
18 in the rebuttal evidence?

19 MR. ROBIN WIENS: Yes, we have. But, the most  
20 of the material that we have filed here, in support of this  
21 application has not incorporated it.

22 MR. ROBERT MAYER: Mr. Lazar, I think what Mr.  
23 Wiens is getting at, is they tried to change it last time and  
24 we made them change it back. And I think they want to  
25 convince us that we were wrong. And they may be right.

1                   MR. JAMES LAZAR: That covers Manitoba Hydro.  
2 What about the other parties. What other parties have  
3 proposed things in this docket that would change the  
4 allocation of the -- either the calculation of the export  
5 credit amount or the allocation of it between customer  
6 classes or within rates?

7

8                   (BRIEF PAUSE)

9

10                   MS. PATTI RAMAGE: Mr. Chair? I'm just --  
11 I'm a little concerned with that question because I think  
12 we're -- Mr. Wiens is being asked to -- to pontificate on  
13 what the other parties' positions are and I'm not sure that  
14 it's appropriate for Manitoba Hydro to be putting those  
15 positions in.

16                   THE CHAIRPERSON: Can you phrase it in a  
17 different way?

18

19 CONTINUED BY MR. JAMES LAZAR:

20                   MR. JAMES LAZAR: Let me -- let me try and  
21 rephrase it. I'm -- what is your understanding of the  
22 alternatives that have been proposed by other parties in this  
23 proceeding?

24                   MR. ROBIN WIENS: Well, I don't think any of  
25 the parties has proposed anything that has been taken to any

1 degree of -- of development. Mr. Lazar, yourself or your  
2 client, have proposed a -- a method that would return export  
3 revenues to customers on some basis that would make it at  
4 least appear not to be related to consumption. Although I --  
5 I guess I don't -- I don't fully understand how that proposal  
6 would actually work in practice.

7           Perhaps one (1) of the other Intervenors has  
8 -- has, not necessarily made a -- a different proposal, but  
9 they have discussed the possibilities of what might happen if  
10 there were some other approach taken to the allocation of  
11 export revenues.

12           MR. JAMES LAZAR: If I refer you to the top  
13 of page 19 of the rebuttal evidence, you state,

14           "It may be appropriate to make an initial  
15 allocation of export revenues to compensate  
16 for the effect of uniform rates on the  
17 residential class, and to a lesser extent,  
18 on the general service, small in area and  
19 roadway lighting classes."

20           Is that a -- an observation, a recommendation,  
21 a suggestion for consideration or a suggestion for further  
22 study?

23           MR. ROBIN WIENS: Well, we -- we had a  
24 suggestion in the pre-filed evidence of one (1) of the  
25 Intervenors that it would be appropriate to -- to add some

1 revenue to the residential class to compensate for the fact  
2 that uniform rates have been legislated by the Province.

3           And I'm not aware of any way you could do that  
4 without -- without affecting the other classes. I guess  
5 notionally you don't have to do it as a -- as an initial  
6 allocation of export revenue. You could simply assume that  
7 it's going to be distributed among the other classes without  
8 reference to export revenue. But certainly that's one (1)  
9 possibility for dealing with it and I -- I guess we are not  
10 making a specific proposal here.

11           I guess what we are saying is that -- that we  
12 do have some degree of sympathy with the -- with the  
13 perspective that was put forward by that particular  
14 Intervenor CAC/MSOS.

15           MR. JAMES LAZAR: Thank you. Changing topics  
16 just a little bit of it still on the issue of the export  
17 credit -- on page 27, you refer to a possible 40 percent  
18 change in rates as a result of -- of zeroing out the export  
19 credit. It's my understanding that that is based upon the  
20 current of method of computing the export credit that is  
21 taking out only variable costs from export revenues.

22           MR. ROBIN WIENS: That's correct.

23           MR. JAMES LAZAR: And if instead, the NERA  
24 methodology was the benchmark for that calculation and so,  
25 several hundred million dollars of generation and

1 transmission costs were allocated to export, that would  
2 change significantly, would it not?

3 MR. ROBIN WIENS: Well, it could, but we  
4 would still have the issue about how we were going to deal  
5 with the losses coming from the drought. We would be  
6 allocating costs, but we wouldn't be getting much revenue.

7 MR. JAMES LAZAR: In the NERA Report it shows  
8 a net export credit for the test year that they use of the  
9 sample year that they used of about \$169 million. Is that  
10 correct?

11 MR. ROBIN WIENS: That sounds about right.

12 MR. JAMES LAZAR: And if you divide that by  
13 the retail load of Manitoba Hydro, you get something under a  
14 penny a kilowatt hour, would you not?

15 MR. ROBIN WIENS: That sounds right.

16 MR. JAMES LAZAR: Thank you. The last  
17 questions that I have come back to the DSM issue, have to do  
18 with the -- some of the figures that have been provided at  
19 the end of the testimony on the peak and energy savings of  
20 some of these programs.

21 Would you agree that programs with a high  
22 ratio of peak savings, relative to average savings, are more  
23 valuable because of the capacity related costs of generation  
24 and transmission and distribution that are avoided?

25 MR. LLOYD KUZCEK: To the extent that the

1 value is there. We're an energy driven company right now, so  
2 there's significant more value in energy for Manitoba Hydro,  
3 than there is capacity. But we take into account the value  
4 of both those -- the capacity and the energy when we evaluate  
5 programs.

6 MR. JAMES LAZAR: Well, let's take a  
7 particular program to start with, the Power Smart Chiller  
8 Program of -- that you discuss at the top of page 33, that's  
9 a program that affects air conditioning loads, is that  
10 correct?

11 MR. LLOYD KUZCEK: Correct.

12 MR. JAMES LAZAR: And so the savings would be  
13 primarily in the summer afternoons?

14 MR. LLOYD KUZCEK: Correct.

15 MR. JAMES LAZAR: And are those the hours when  
16 export revenue prices are the very highest, typically?

17 MR. LLOYD KUZCEK: Correct.

18 MR. JAMES LAZAR: So, savings during those  
19 hours to the extent they free up energy for -- for export is  
20 -- would be more valuable than savings in 3:00 in the morning  
21 on October 13th?

22

23

(BRIEF PAUSE)

24

25

MR. LLOYD KUZCEK: I'm -- I'm not an expert in

1 where -- where -- and the amount of the energy -- or the  
2 value is that we place on these commodities. I know that  
3 resource planning provides us with those numbers, and -- and  
4 we use those numbers now, because we're a hydraulic system.

5 I do -- I do have some -- not because we're a  
6 hydraulic system, because I've worked for Hydro for twenty-  
7 three (23) years, and I've also worked in the export market.  
8 It is true that the short term market is higher in the summer  
9 than it is in the winter.

10 When you're selling a long term product,  
11 usually it's across the entire year, and you're -- the value  
12 that you get in the winter time and the summer time is the  
13 same value.

14 Now, when they're determining the value of DSM  
15 programs, they look at the long term, not the short term,  
16 because that's -- that's where we get the greatest value.

17 MR. JAMES LAZAR: Let's just calculate if we  
18 can, the -- the load factor of the savings of that Power  
19 Smart Chiller Program. I -- the evidence says that it would  
20 save 3 megawatts, I assume that's of peak, and 4 gigawatt  
21 hours of energy savings?

22 What is -- what would the load factor of those  
23 savings be, that is the ratio of average to -- to peak  
24 savings?  
25

1 (BRIEF PAUSE)

2  
3 MR. LLOYD KUZCEK: I calculated the same  
4 number you have in the load factor column, they're 15.2  
5 percent.

6 MR. JAMES LAZAR: And can you confirm that for  
7 the other three (3) programs, the load factors for commercial  
8 industrial lighting were 40 percent, for Power Smart New Home  
9 of 30 percent, and Power Smart Insulation of 34 percent?

10 MR. LLOYD KUZCEK: I could go through the  
11 calculations and confirm that, or we can assume they're  
12 correct, and move on.

13 MR. JAMES LAZAR: Would you accept those  
14 subject to check?

15 MR. LLOYD KUZCEK: Sure.

16 MR. JAMES LAZAR: Thank you. In summary, would  
17 you agree that all of these programs have peak savings that  
18 are -- or savings that are more highly concentrated in the  
19 peak period, than the average of Manitoba Hydro's load?

20 That is there -- these are all lower load  
21 factors than Manitoba Hydro's system load factor.

22  
23 (BRIEF PAUSE)

24  
25 THE CHAIRPERSON: Mr. Lazar, do you have

1 several more questions?

2 MR. JAMES LAZAR: One (1).

3 MR. LLOYD KUZCEK: I'm going to have to get  
4 you to repeat that question, sorry Mr. Lazar.

5 MR. JAMES LAZAR: Two (2). Would you agree  
6 that all of the load factors of the savings of these three  
7 (3) DSM programs are lower than the Manitoba Hydro system  
8 load factor?

9 MR. ROBIN WIENS: Yes.

10 MR. JAMES LAZAR: And final question, is the -  
11 - each of these load factors, is in fact, lower meaning a  
12 higher ratio of peak savings to energy savings, is a lower  
13 load factor than the load factor of any of Manitoba Hydro's  
14 major customer classes, residential, small general service  
15 and on up?

16 MR. ROBIN WIENS: Yeah, they -- they do appear  
17 to be somewhat lower than the load factor of each of the  
18 classes. Although we tend to -- I guess we tend to think of  
19 the class load factors, in terms of their coincidence with  
20 the system peak.

21 So whether the class diversified load factors  
22 are -- are higher than all of these -- it mostly likely would  
23 be the case.

24 MR. JAMES LAZAR: Thank you. That's all.

25 THE CHAIRPERSON: Thank you Mr. Lazar and

1 we'll have a ten (10) minute break now. I should mention  
2 that we're going to adjourn at 11:30 today and then we'll  
3 resume again at 2:00. So when we come back at 10:15 we'll be  
4 only running to 11:30.

5

6 --- Upon recessing at 10:05 a.m.

7 --- Upon resuming at 10:25 a.m.

8

9 THE CHAIRPERSON: Okay, welcome back,  
10 everyone.

11 Before we -- I ask Mr. Barren to swear Mr.  
12 Lazar, I'm just going to suggest that we introduce as an  
13 Exhibit, the collage of documents that Professor Miller used  
14 during the -- and Mr. Lazar used during the  
15 cross-examination.

16 I suggest we call them all TREE-5, A, B, C,  
17 and D. A, would be the PowerSmart advertisement. B, would  
18 be an excerpt from the PowerSmart program description, C,  
19 would be website comparison, electricity and gas costs. And  
20 5D would be an illustration of DSM savings. So, that will be  
21 that. Mr. Barron would you swear Mr. Lazar?

22

23 --- EXHIBIT NO. TREE-5A: PowerSmart advertisement.

24 --- EXHIBIT NO. TREE-5B: Excerpt from the PowerSmart  
25 program description.

1 --- EXHIBIT NO. TREE-5C: Website comparison of electricity  
2 and gas costs.  
3 --- EXHIBIT NO. TREE-5D: Illustration of DSM savings.

4

5 JAMES LAZAR, Sworn:

6

7 THE CHAIRPERSON: Thank you Mr. Barron. I  
8 should mention by the way that on Wednesday, we can start  
9 right at 9:00 o'clock. One time we talked about starting at  
10 10:30 on Wednesday, but we're back at 9:00. The matter that  
11 was to be dealt with at that time has been taken care of.

12 Mr. Lazar...?

13

14 EXAMINATION-IN-CHIEF BY DR. PETER MILLER:

15 DR. PETER MILLER: Please state your name,  
16 address and occupation and summarize your experience in  
17 utility regulation?

18 MR. JAMES LAZAR: Jim Lazar, 1063 Capital Way  
19 South, Suite 202, Olympia, Washington, 98501, USA. I'm a  
20 consulting economist specializing in utility rate and  
21 resource issues.

22 I've been engaged in utility rate consulting  
23 continuously since 1979. During that time I've appeared  
24 before many local, state and Federal regulatory bodies,  
25 authored papers and articles on utility rate making and have

1 been a faculty member on numerous occasions at training  
2 sessions for utility industry analysts.

3 I've appeared before numerous regulatory  
4 commissions, including the British Columbia utilities  
5 commission, this Board and State commissions of Washington,  
6 Oregon, Idaho, Montana, Arizona, Illinois, Hawaii and  
7 California.

8 I'm also an associate with the Regulatory  
9 Assistance Project or RAP; that is headquartered in Gardner,  
10 Maine, and is a group of former utility regulators who  
11 provide technical assistance to utility regu -- regulators  
12 around the world.

13 My work with RAP has involved training  
14 programs, principally oversees in India, China, the  
15 Phillippines, Brazil, Namibia, Mozambique and Indonesia.

16 I testified on behalf of TREE and RCM in the  
17 2002 rate review for Manitoba Hydro.

18 DR. PETER MILLER: Mr. Lazar, do you have any  
19 changes or corrections to your written testimony?

20 MR. JAMES LAZAR: Yes I have, one (1); I'll  
21 ignore the minor typos, but, there's one (1) that's  
22 meaningful. On page 13, at line 32, the word, current,  
23 should be changed to NERA, N-E-R-A, so the sentence would  
24 then, or the phrase would then read, I have estimated the  
25 average revenue per kilowatt hour for each customer class

1 under the NERA methodology and with separation of the export  
2 credit.

3 MR. JAMES LAZAR: Thank you. What is the  
4 purpose of your evidence in this proceeding?

5 MR. JAMES LAZAR: I've been asked by TREE and  
6 RCM to propose measures to encourage energy conservation in  
7 Manitoba. These measures include movement toward inverted  
8 rates for all Manitoba Hydro customer classes.

9 The appropriate treatment of net export  
10 revenues, the option of implementing new customer connection  
11 fees and credits to encourage energy efficiency and new  
12 structures built in Manitoba, and I'd also address a means to  
13 provide for adequate investment in homes and businesses for  
14 energy efficiency in the natural gas space heating and water  
15 heating area.

16 DR. PETER MILLER: Could you please provide an  
17 overview of your testimony?

18 MR. JAMES LAZAR: First I recommend that  
19 Manitoba Hydro's request to move from a declining block  
20 residential rate to a flat rate design be approved. This is  
21 a sensible first step in implementing more efficient and  
22 equitable electricity prices.

23 Second, I recommend that Manitoba Hydro be  
24 directed to submit an inverted rate design for implementation  
25 no later than the end of 2006. And that should address the

1 needs of electricity dependent heating customers in some  
2 constructive manner.

3           Third, I recommend that Manitoba Hydro be  
4 directed to examine methods to implement inverted or tiered  
5 rates, for commercial and industrial customers, and report  
6 back to the Board within a year of -- or less, on the options  
7 that I have discussed in my evidence. And on other options  
8 that they identify, that may provide a system benefit.

9           Fourth, I recommend that the Board direct that  
10 the export earnings credit be separated from the normal  
11 electricity rate. And at a minimum, be separately stated on  
12 each customer's electric bill.

13           Rates should be designed to recover the fully  
14 allocated costs of serving each class. The export credit to  
15 the extent that it's flowed through to customers, as part of  
16 the electricity purchases, should at a minimum, be a separate  
17 element of the bill.

18           Fifth, I recommend that the Board direct  
19 Manitoba Hydro to explore implementing hookup fees and hookup  
20 credits, that provide a greater incentive for new homes and  
21 businesses connecting to the Manitoba Hydro system, to choose  
22 state of the art, cost effective energy efficiency measures.

23           Finally, I recommend that a system benefit  
24 charge on the Manitoba Hydro natural gas distribution rates  
25 be considered in order to fund energy efficiency measures,

1 low income, weatherisation programs and energy efficiency  
2 research and development in natural gas.

3 DR. PETER MILLER: Let's begin with your  
4 proposal for implementing inverted rates. What is the  
5 essence of your proposal?

6 MR. JAMES LAZAR: I propose that Manitoba  
7 Hydro be directed to file an inverted rate design in its next  
8 Rate Application, and that the flat rate Manitoba Hydro has  
9 proposed here, be adopted at this time.

10 My recommendation is based on two (2)  
11 different approaches to rate making, both of which justify  
12 inverted rates for the Manitoba Hydro system.

13 First, I've looked at the differences in cost  
14 between the lower cost, older hydro resources, principally on  
15 the Winnipeg River, and the higher end cost -- the higher  
16 cost and newer northern generating and DC transmission  
17 resources.

18 When you factor in the cost of DC  
19 transmission, the northern resources cost far more than the  
20 southern resources.

21 Looking at them as a group, while there's some  
22 lower cost northern resources, as a group, the northern units  
23 are more expensive.

24 Allowing each customer an equitable share of  
25 the low cost resources at a price commensurate with costs,

1 and access to additional power from the higher cost  
2 resources, at cost based rates, would imply an inverted rate  
3 design for Manitoba Hydro.

4                 Second, I looked at the difference in load  
5 factor between residential usage below 250 kilowatt hours and  
6 usage above that level. I think it's fairly obvious to  
7 anyone in Manitoba that 250 kilowatt hours is a pretty  
8 minimal level of usage here, covering only maybe lights,  
9 refrigerators, television and other very basic appliances.  
10 It would not provide for any water heating or space  
11 conditioning usage.

12                 I found that the higher load factor of this  
13 initial block of usage justifies a lower rate for this usage.  
14 I have since reviewed Manitoba Hydro's rebuttal testimony on  
15 the load factor issue. And I adopt the methodology used in  
16 that rebuttal exhibit, as more accurately reflecting the  
17 approach that should be used.

18                 I remain a bit skeptical about the underlying  
19 data, it seems to show a higher load factor on the  
20 distribution system, that I would expect to see for larger  
21 customers with electric heat, and/or electric air  
22 conditioning. That's a data issue, not a methodological  
23 issue. I adopt the methodology that Hydro has used, to look  
24 at both the generation load factor and the distribution load  
25 factor separately.

1                   Based on those two (2) different and  
2 independent approaches, that is both looking at cheap  
3 resources first as more expensive resources and load factor,  
4 I've concluded that inverted rates are appropriate for  
5 Manitoba Hydro residential customers.

6                   I -- I urge the Board to direct Hydro to  
7 submit an inverted rate option or options for effectiveness  
8 in 2006.

9                   The speed at which such rates are implemented  
10 is dependent upon policy that the Board will have to  
11 consider, as well as technical issues.

12                  DR. PETER MILLER: How have you addressed the  
13 impact of these inverted rates on customers without access to  
14 natural gas?

15                  MR. JAMES LAZAR: I've presented in my  
16 evidence the option of a larger initial block during the  
17 winter months for customers that do not have access to  
18 natural gas.

19                  Now, there's not an economic justification for  
20 this, only a public policy justification. These rural  
21 customers and northern customers already probably cost more  
22 to serve than their revenues cover.

23                  An inverted rate which gave them the same  
24 initial block as urban and southern customers would probably  
25 actually close the gap that exists in the revenue to cost

1 ratio for zones two (2) and three (3), while simultaneously  
2 complying with the legislative directive for uniform rates.

3 But those customers would see significant  
4 increases in their bills and that's an important public  
5 policy matter. And the Board is best suited to consider the  
6 delicate balance between economics and policy.

7 DR. PETER MILLER: What about inverted rates  
8 for non-residential customers?

9 MR. JAMES LAZAR: It's much more difficult to  
10 design inverted rates for non-residential classes of  
11 customers. This is because the usage patterns of such  
12 customer are much less homogenous, the customer size varies  
13 over a very wide range.

14 I've proposed an option, what's called rolling  
15 baseline rates be pursued as the best way to provide each  
16 general service customer with a fair share of lower cost  
17 resources and provide them with access to higher cost  
18 resources, as needed, on a cost basis.

19 Manitoba Hydro and MIPUG, have both expressed  
20 some sympathy to some kind of an approach that would move the  
21 end block rate for -- or the run out rate for general service  
22 customers, closer to reflecting margin cost.

23 My evidence urges the Board to direct Manitoba  
24 Hydro to submit an option or options for inverted rates for  
25 non-residential customers in its next rate application.

1 DR. PETER MILLER: Thank you. Now, let's turn  
2 to the treatment of export revenues. What is your  
3 understanding of the method that has been used in recent  
4 years for accounting for export revenues, and setting rates  
5 in Manitoba?

6 MR. JAMES LAZAR: My understanding is that  
7 gross revenues from export sales, are on average very large.  
8 Manitoba Hydro has defined its quote, "net export revenue" as  
9 this gross revenue, less variable cost, such as water rent,  
10 fuel ,and imported power.

11 The result is a very large amount that is  
12 considered the export credit. In its cost of service study,  
13 pursuant to Board direction, Manitoba Hydro has assigned all  
14 of the fixed costs of the Hydro project, transmission system  
15 and other generating resources, to core customers, to  
16 domestic customers.

17 And then applies the large export credit to  
18 the class revenue requirement in setting rates.

19 DR. PETER MILLER: In your opinion, is it  
20 appropriate to compute the export credit in the manner that  
21 Manitoba Hydro historically has done, assigning the cost to  
22 retail classes, and then applying the credits back to retail  
23 classes?

24 MR. JAMES LAZAR: I think it's the second best  
25 approach. Because -- Manitoba Hydro is in a surplus position

1 under normal water conditions and projects that it will not  
2 need new resource to serve its domestic load for many years  
3 to come, I think it makes more sense to treat the export of  
4 power, as a customer class in the cost of service study.

5           The NERA methodology which has been submitted  
6 to the Board in this proceeding does this by assigning costs  
7 to export customers on a fully allocated average cost basis.  
8 I think that is one (1) reasonable approach.

9           Another reasonable approach might be to assign  
10 the oldest and lowest cost resources on the system, entirely  
11 to domestic customers. In my sense, supporting the creation  
12 of a first block rate and then allocate all of the remaining  
13 resources, the newer, higher cost resources to all classes of  
14 customers, and to include export as one (1) of the classes of  
15 customers that would get an allocation of those higher cost  
16 resources.

17           In my evidence, when I refer to the term net  
18 export credit, I'm sort of referring to -- it is calculated  
19 in the NERA methodology, that is the revenues from export,  
20 less the full cost of producing power for -- for export. The  
21 NERA methodology calculated this net export credit as \$169  
22 million dollars a year.

23           If the southern hydro system or the low cost  
24 resources were allocated entirely to domestic load and the  
25 NERA methodology then applied to the remaining system, and an

1 export class were created, that \$169 million dollars would go  
2 down. I have not calculated the extent to which it would go  
3 down.

4 I understand that when Manitoba Hydro uses the  
5 term, net export credit, they're generally referring to the  
6 traditional approach of treating almost the entire export  
7 revenue, net of variable costs in this fashion. It's a  
8 semantic difference. I think we all understand each other.

9 But to me, only netting out a very small  
10 amount of cost and calling it a net export credit, didn't  
11 seem intuitive. So, I've used it pretty much the same way  
12 NERA has, net of the costs of producing the power; fixed and  
13 variable costs.

14 DR. PETER MILLER: Thanks for that. Mr.  
15 Lazar, what methods have you recommended for distributing the  
16 net export credit, as you have defined it to the public?

17 MR. JAMES LAZAR: I've identified several  
18 approaches. I think the principle goal should be to  
19 distribute this in a manner that does not significantly  
20 affect customer consumption.

21 First and foremost I'd recommend that the  
22 export credit be removed from the rate design, and separately  
23 stated, if it's included in the electric bill.

24 I think this will create greater understanding  
25 among customers of the benefits of Manitoba Hydro's export

1 driven capital program, both new generation and -- and DSM  
2 are partly justified on the expectation of profitable  
3 exports.

4                   Second, I recommend that consideration be  
5 given to rebating the export credit to customers once a year,  
6 rather than in periodic utility bills.

7                   I think if this were done, the customers would  
8 more likely base their consumption decisions during the year,  
9 on the electric rate, before the export credit. And  
10 receiving a one time cheque or a one time credit once a year  
11 from the utility, would, in my opinion, have less of an  
12 impact on the customer consumption, than the current method.

13                   The current method applies that in tariff  
14 design and thereby suppresses the prices the customers see  
15 each month.

16                   The periodic rebate is an approach that BC  
17 Hydro used to distribute its very significant profits that it  
18 obtained during the 2000/2001 West Coast energy crisis.

19                   I've also discussed in the evidence making the  
20 credit uncertain, that is tying it to actual export earnings  
21 of Hydro. If customers didn't know what it was going to be  
22 in advance, they would be less likely to bias their  
23 consumption decisions, based on a rational expectation of  
24 receiving it.

25                   And that again is basically what BC Hydro has

1 -- has done with a one (1) time big credit in the year that  
2 they had, I'll call them windfall profits.

3           Third, I think there's a basis for removing  
4 the credit -- the export credit entirely, from the utility,  
5 and rebating it to the public in the form of lower taxes, or  
6 improved Governmental services, or something else unrelated  
7 to electricity usage.

8           That's in effect what happened when the  
9 Government appropriated a dividend from Manitoba Hydro last  
10 year.

11           DR. PETER MILLER: Let's shift now to the  
12 evidence on hookup charges and credits. What's your  
13 principal recommendation.

14           MR. JAMES LAZAR: I recommend that Manitoba  
15 Hydro be directed to develop a symmetrical program of hookup  
16 charges for less efficient structures, and hookup credits,  
17 for more efficient structures.

18           I think these would provide a very strong  
19 incentive for builders to choose more efficient building  
20 techniques. It would provide financial rewards for those  
21 that choose to go above and beyond the minimum construction  
22 standards now in place.

23           I've included, in my evidence, a paper that I  
24 delivered more than a decade ago on this subject. I  
25 specifically proposed a two thousand dollar (\$2000) hookup

1 fee per residential structure and an off-setting two thousand  
2 dollar (\$2000) credit for meeting the PowerSmart Program  
3 standards. I proposed an additional thousand dollar (\$1000)  
4 credit for builders that go beyond PowerSmart to the R-2000  
5 standard.

6                   Based on my experience with similar programs  
7 elsewhere, I expect this will provide very large savings to  
8 the buyers of new homes over time. It would not unduly  
9 penalize builders of new homes and I think it would  
10 facilitate moving to an improved construction code and  
11 standard by having hundreds and thousands of efficient new  
12 homes built, you eliminate, I'll call it, builder resistance  
13 to code changes.

14                   For the non-residential sector, a hook-up fee  
15 should be based on the kilowatts of connected load so that  
16 small structures and large structures pay appropriately  
17 different connection charges and are treated equitably.

18                   I've recommended a two hundred dollar (\$200)  
19 per kilowatt connection charge. This also should be off-set  
20 by a symmetrical set of credits for builders that go beyond  
21 minimum required construction standards. The goal should be  
22 for -- for it to be revenue neutral and result in improved  
23 efficiency.

24                   In the event that the credit succeed the  
25 charges, that is, that the participation rate is higher than



1 Miller. Thank you, Mr. Lazar.

2 We'll move on now to cross-examination. Will  
3 be of TREE and RCM's Witness and -- and we'll begin with  
4 CCEP, Mr. Feldschmid -- Mr. Feldschmid ...?

5 MR. FELDSCHMID: Should we -- sorry, Mr.  
6 Chair, thank you. CCEP has no questions for this Witness,  
7 thank you.

8 THE CHAIRPERSON: Then after that we'll move  
9 to CAC/MSOS. Mr. Williams ...?

10 MR. BYRON WILLIAMS: Mr. Williams, we do have  
11 a few questions on behalf of my clients. With your  
12 permission, I wonder if I could move to the other side of the  
13 room. I'll only be there for about, you know, about twenty  
14 (20) minutes or so. But I think both Mr. Lazar and I would  
15 appreciate not having to twist and contort our bodies.

16 THE CHAIRPERSON: By all means.

17 MR. ROBERT MAYER: While we're waiting for  
18 Mr. Williams to relocated, you -- you've drawn the  
19 distinction between high cost power and low cost power and  
20 somehow justify the inverted rate based on those  
21 differences.

22 But it strikes me that, that's somewhat of an  
23 artificial difference in light of the fact that what you call  
24 low cost power of the Winnipeg River appears to represent  
25 about 8.66 percent of Hydro's hydraulic production. Is that

1 not just then an artificial figure?

2 MR. JAMES LAZAR: Well, the figure is a cost  
3 based figure that I, actually you know, looked and calculated  
4 at the amount of power available from the low cost resources  
5 and the cost of that power as it shows up in the Manitoba  
6 Hydro revenue requirement.

7 I think it's very real, but, I agree with you,  
8 it's not a huge part of the hydraulic production. And that's  
9 actually the reason that -- one of the reasons that I  
10 proposed a relatively small initial block in my rate design.

11 MR. ROBERT MAYER: The other comment -- I  
12 happen to be one of those people who has -- who is most  
13 concerned about people who, basically are required to heat  
14 with electricity, unless one wants to go to propane. And  
15 your exhibit shows what that would do to us.

16 And I am sorry, but, I don't recall -- what  
17 was the initial block you proposed for hydro customers to use  
18 electricity for heat, what was the initial block and what did  
19 you call winter?

20 MR. JAMES LAZAR: The discussion of this  
21 begins at the bottom of page 7 in my evidence. I used an  
22 initial block of a thousand (1000) kilowatt hours and the  
23 calculation that I did was to apply that in all months.

24 So, I guess I call winter, January through  
25 December, if -- if that's responsive. But, that was only

1 because I -- I didn't have the monthly bill frequency  
2 analysis data that would have enabled me to tailor it to less  
3 than twelve (12) months of the year --

4 MR. ROBERT MAYER: I thought your evidence  
5 here though you -- I thought when I heard your recommendation  
6 you said that block -- you did mention during winter months?

7 MR. JAMES LAZAR: Well on page -- the  
8 calculation that I did in my evidence was all months. The  
9 recommendation that I make on page 8 at line 27, is an  
10 initial block of a thousand (1000) kilowatt hours during  
11 November through April.

12 Now, the -- keep in mind that when the initial  
13 block is a thousand (1000) kilowatt hours, that means that  
14 customers are going to pay less than the average rate, for  
15 the first thousand kilowatt hours and more than the average  
16 rate for all above that.

17 The crossover point where they actually start  
18 paying larger bills than with an average rate, is up above  
19 two thousand (2000) kilowatt hours.

20 So, if you're looking at it as, where does the  
21 price incentive show up; it shows up at a thousand (1000)  
22 kilowatt hours. Where does the bill actually get larger; it  
23 gets larger above two thousand (2000) kilowatt hours.

24 And that amount was chosen, in part, because  
25 with the geothermal heating system customers ought to be able

1 to stay below that two thousand (2000) kilowatt hour level  
2 and therefore there is a electrically heated alternative  
3 available to them that would provide for a -- a lower bill  
4 than they would get with the flat rate.

5 MR. ROBERT MAYER: I'm firstly not sure how  
6 far you would have to go down into the permafrost to get the  
7 heat out of the ground but, the issue of November to April,  
8 is an interesting concept when you understand that a good  
9 portion of those people who are in my position live north of  
10 the 53rd parallel, where we don't call winter, November to  
11 April.

12 But, more likely, we call it October to the  
13 end of May and this year we were heating houses until just  
14 recently. I realize that's not a question.

15 MR. JAMES LAZAR: I've indicated that the  
16 treatment of these customers is more a policy issue than a  
17 technical issue. And I'm trying to primarily address the  
18 technical side of it and recognize the policy side.

19 THE CHAIRPERSON: Mr. Lazar, Mr. Evans has a  
20 few questions as well.

21

22 CROSS-EXAMINATION BY MR. LEN EVAN:

23 MR. LEN EVANS: Thank you, Mr. Graham. I  
24 appreciated your presentation and appreciate your great  
25 knowledge and experience in this area. And I have a lot to

1 learn and I'm not sure whether I understand everything that  
2 you've stated.

3                   But, you're making reference to the cost of  
4 old power and new power, you know, the Winnipeg river versus  
5 facilities in the north. And it seemed to me, I may have  
6 missed it, but you're suggesting that rates reflect -- be  
7 separated somehow to reflect the old and the new facilities.  
8 And I'm not sure whether I follow you, and it seems to me  
9 you're making life awfully complicated for a utility, by  
10 trying to bring that into affect.

11                   And the cost of power is cost of power, and  
12 you have to confront it as a utility, and then you set your  
13 rates to, you know, recover your costs or whatever.

14                   But why make the distinction between cheaper  
15 versus the higher costs of power?

16                   MR. JAMES LAZAR: Let me, if I may, approach  
17 that in -- in two (2) different ways; the first sort of from  
18 a traditional utility economics perspective. The utility's  
19 revenue requirement is a function of its embedded cost of  
20 power; it is the sum of cheap costs for cheaper power plants,  
21 higher costs for newer and more expensive power plants, and  
22 all the costs of the transmission and distribution system.  
23 Each element of which has a cost that's partly a function of  
24 when it was built.

25                   The total of that comes out to less than the

1 current or marginal or market value or cost of -- of power.  
2 And that creates the distortion in how customers use  
3 electricity.

4                   And Manitoba Hydro's approach to this, well,  
5 let's look at it, sort of, I'll call it the NERA way, which  
6 is rates should be equal to marginal costs, and we should  
7 apply discounts to infra-marginal consumption elements, so as  
8 to not distort consumption.

9                   And I think that's a very legitimate and --  
10 and methodological way to look at it from an economic theory  
11 perspective.

12                   From my perspective, we get to the same place,  
13 by actually looking at the building blocks of the revenue  
14 requirement, and pricing them according to costs. If we sell  
15 the cheap power cheap in limited quantities, and the  
16 expensive power at cost, we wind up with a tail block that  
17 looks pretty much like marginal cost, and every element of  
18 the rate design is tied to the cost of some real thing.

19                   I find it easier to explain than switching to  
20 economic theory and employing what we call Ramsey pricing,  
21 and deviating from marginal costs, so as to reduce  
22 distortion. I just find it easier to say, sell the cheap  
23 stuff cheap and the expensive stuff at cost, and the people  
24 want more of the expensive stuff, then sell it to them.

25                   So, that's -- that's sort of the utility way

1 of looking at it.

2           If I use -- a whole different way of looking  
3 at it is an analogy; I bought my house twelve (12) years ago,  
4 and I paid a hundred and ninety-two thousand dollars  
5 (\$192,000) for it, and my mortgage payment is a thirty (30)  
6 year fixed rate mortgage. My cost of living in that house  
7 doesn't change over time.

8           But if I want to add two (2) more rooms and  
9 another bathroom to my house, I'm going to have to pay  
10 today's cost to do that, and my decision of whether or not to  
11 increase my consumption of housing is not going to be based  
12 upon a builder who charges me the average of what it costs to  
13 build today, at what it costs to build twelve (12) years ago.  
14 They're going to charge me marginal costs for the additional  
15 consumption.

16           And that's the way the real market works for  
17 stuff that's not regulated in price. And so, one (1) of the  
18 functions of regulation is to preserve the efficiencies that  
19 an unregulated market can achieve, while preserving the  
20 equity that people expect from a basic public service such as  
21 electricity.

22           And this particular rate design, I think  
23 accomplishes that. It makes electricity consumption growth  
24 function a little bit more like the consumption of growth of  
25 almost anything else one (1) might buy. So, I -- it is a

1 little complicated, but all -- averaging everything together  
2 to me, is over simplification.

3 MR. LEN EVANS: Thank you. I'm not sure  
4 whether I followed your argument entirely, and I'm not sure  
5 whether Manitoba consumers would understand, if they were  
6 being charged different rates, one (1) being referred to as  
7 based on old or cheaper power production, versus newer more  
8 expensive power production. And maybe I don't follow what  
9 you're proposing.

10 But it seems to me if you had a rate schedule  
11 and you're publishing it, and you're saying this is cost of  
12 the old versus the new and -- it sort of boggles my mind.  
13 How do I decide whether my consumption or any individual's  
14 consumption, you know, is -- is related to the old facilities  
15 versus the newer higher cost facilities.

16 In fact, I guess what I'm saying is I -- I  
17 find it rather complicated and I find it sort of difficult to  
18 pursue in whether it's practical, that's another question.

19 But anyway, I had a couple of other areas that  
20 -- when you talk about net export credits, giving them once a  
21 year, this is interesting. What happens if there isn't a  
22 credit? What happens if, unfortunately you had a debit  
23 situation?

24 Do you ask the customers to rebate to Hydro  
25 or?

1                   MR. JAMES LAZAR:   Well I -- I come from a  
2 Hydro dominated region and we deal with -- with drought  
3 regularly and some of the utilities of -- do implement, with  
4 Board regulator approval, drought year surcharges. We  
5 currently have a surcharge in effect for Evista Utilities and  
6 the State of Washington because of the -- actually it's a  
7 still hangover from the drought of 2000/2001.

8                   I think that the more sensible and prudent  
9 thing to do would be to design rates so that you would never  
10 have a debit situation and that you -- no one would ever get  
11 a lump of coal in their -- in their Christmas stocking.

12                   That they would either be a -- a few dollars  
13 in the -- in the stocking, or a lot of dollars in the  
14 stocking. But I think you would want to design the program  
15 so that over the -- the debits would be accounted for in  
16 advance. And -- and the -- the credits would be the  
17 uncertain element.

18                   MR. LEN EVANS:   Just one (1) more and I'll  
19 let the experts carry on here. The relation -- the reference  
20 to inverted rates for industries, and you're recommending  
21 Visa's, I gather, and others are as well. Inverted rates as  
22 opposed to retail consumption or residential consumption,  
23 you're suggesting it for industrial consumption?

24                   MR. JAMES LAZAR:   Yes, my -- I'm recommending  
25 the consideration of what's called a rolling base line rate

1 and the example that I give is on pages 10 and 11 of my  
2 evidence that -- that the example is that everyone would get  
3 -- all of these customers would get 90 percent of their  
4 historical usage at the initial block rate. And any usage in  
5 excess of that would be at the second block rate.

6                   So, essentially, all of the customers would  
7 have some their consumption at the marginal rate that would  
8 give them the incentive to conserve. Or when expanding their  
9 plant or facility, to choose cost-effective energy efficiency  
10 measures.

11                   It wouldn't change the total amount of money  
12 collected from the class, but it would structure the rate so  
13 that for marginal consumption, customers would always see  
14 something close to marginal cost.

15                   MR. LEN EVANS: Well, just very briefly, I  
16 don't want to take too much time but -- so, you're not --  
17 you're not considering the impact of the rate proposals on  
18 the efficiency, or rather not efficiency, but the  
19 profitability of the particular industry that has to perhaps  
20 compete in the market, export market or the domestic market.

21                   MR. JAMES LAZAR: No, actually, that's  
22 exactly what I am doing, is taking that into account. Is by  
23 -- by giving all of them a reasonably certain block of power  
24 at a low and predictable price we're preserving their -- or  
25 strengthening, their competitiveness.

1                   What we're doing is we're pricing the cost of  
2 expansion for competitors moving into Manitoba to take  
3 advantage of your low cost power more closely to marginal  
4 cost.

5                   We have one (1) utility in --near where I  
6 live, the Grand County Public Utility District has about the  
7 cheapest electricity of any utility in the world, two (2)  
8 large dams on the Columbia River.

9                   And all of the energy intensive industries in  
10 the whole region -- the silicon smelters and the  
11 chloralkalide plants, they're all converging on that one (1)  
12 county and driving up rates for all of the irrigators who  
13 were the historical backbone of that County's economy.

14                   Now they're -- they're being very profit --  
15 the new industries are being very profitable compared to what  
16 they could do elsewhere. But, their devastating the existing  
17 industry of potato growing and potato processing, in the  
18 process.

19                   And the approach that I've proposed would  
20 protect existing industry in Manitoba from price increases  
21 caused by growth on the system. I think you're at real risk  
22 of attracting some very energy intensive industries that use  
23 a lot of electricity and provide very little employment  
24 because your rates are so low.

25                   And this would protect your existing economy

1 from that kind of situation.

2 MR. LEN EVANS: Thank you.

3 THE CHAIRPERSON: Thank you very much.

4 Interesting exchange. Mr. Williams...?

5

6 CROSS-EXAMINATION BY MR. BYRON WILLIAMS:

7 MR. BRYON WILLIAMS: Thank you Mr. Chairman.

8 Mr. Lazar and Dr. Miller. I guess before starting again I  
9 did this during the Clean Environment Commission and on  
10 behalf of my clients, I do want to thank both Dr. Miller and  
11 yourself for the interesting thoughts that you bring to the  
12 process and the -- the challenges to the status quo that TREE  
13 RCM brings to the proceedings and it's much appreciated by my  
14 clients.

15 Mr. Lazar, before we move to kind of perhaps  
16 departures from the status quo, I want to talk about your  
17 analysis of -- or one (1) aspect of your analysis of the  
18 system, as it currently is, in terms of the current  
19 allocation of costs and revenues.

20 And my understand is, that in terms of the  
21 residential shortfall from full cost coverage, your analysis  
22 is that it's largely or perhaps all explained by below cost  
23 pricing to zone three (3) customers. Is that right, sir?

24 MR. JAMES LAZAR: Yes, that's correct, a  
25 little bit on two (2), but overwhelming zone three (3).

1                   MR. BRYON WILLIAMS: And that's based upon  
2 your review of an interrogatory response, I believe MIPUG I-  
3 21, which shows that zone one (1) and zone two (2),  
4 residential customers are paying about -- close to 100  
5 percent of their cost of service, whereas zone three (3)  
6 customers are -- paying close to 80 percent.

7                   Is that right?

8                   MR. JAMES LAZAR: Yes, that's one (1) part of  
9 it, but there also was an analysis that Manitoba Hydro did  
10 that looked at the pre-export credit revenue to cost ratio  
11 and showed that the residential class, as a whole, even  
12 including the effective of uniform rates, was very close to  
13 the system average on a pre-credit basis.

14                   And so it appears to me that the -- their also  
15 is, in addition to the distortion caused by the uniform rate  
16 requirement, there's an additional distortion caused by the  
17 method of calculation and allocation of the export credit.

18                   MR. BRYON WILLIAMS: Mr. Lazar, you're always  
19 tremendous at segues, I remember that from the -- the last  
20 time that I was here.

21                   So I do want to turn to the -- to the issue of  
22 the export revenue. And specifically, I want to talk first  
23 of all, at a high level about the analysis of yourself and  
24 NERA in terms of -- of the problem that may be caused by the  
25 current -- by the status quo, as it currently exists.

1                   And again, without asking you to elaborate too  
2 much, it would appear to me that a concern that both yourself  
3 and NERA share in terms of the status quo, in terms of the  
4 allocation of export revenues is that it's distorting in  
5 terms of economic efficiency; would that be fair?

6                   MR. JAMES LAZAR: Yes.

7                   MR. BRYON WILLIAMS: And, in particular, and I  
8 think this would be a fair characterization of -- of yourself  
9 as well, as your analysis of NERA that it -- it's distorting  
10 the status quo in terms of the allocation of export revenues  
11 is distorting, in terms of its impact upon energy  
12 consumption. Would that be fair?

13                   MR. JAMES LAZAR: Yes, it has the effect of  
14 bringing the prices paid by customers far below the market  
15 value of the power or the marginal cost of the power.

16                   MR. BRYON WILLIAMS: Now, I want to turn, just  
17 to a second, for where you and NERA may agree or disagree, in  
18 terms of the status quo as it currently stands. And as I  
19 understand it, in terms of the idea of an export class,  
20 you're in agreement with the NERA recommendations, at least  
21 at a high level, in the sense that you think the creation of  
22 -- of such a class would be appropriate?

23                   MR. JAMES LAZAR: Yes, I do. It's going to be  
24 a part of the system for many years to come, it appears. I  
25 don't think it should be treated as a simply transitory

1 event.

2 MR. BYRON WILLIAMS: And in terms of your  
3 analysis of the NERA recommendation to allocate the net off-  
4 system sales revenue on total cost to serve, as compared to  
5 the current status quo, I take it you'd agree and it's your  
6 view that the NERA recommendation is more economically  
7 efficient than the status quo?

8 MR. JAMES LAZAR: I think it's -- it's more  
9 economically efficient, I -- I don't think it's optimal.

10 MR. BYRON WILLIAMS: And we'll get to that in  
11 -- in just a second, but one (1) of the reasons you consider  
12 it's more economically efficient would be that it would be  
13 less distorting, in terms of energy consumption, is that  
14 fair?

15 MR. JAMES LAZAR: Yeah, there's -- there's two  
16 (2) parts to it, first of all it recognizes a real cost of  
17 providing power to the export classes and assigns that to  
18 them. I just think that's more logical for a system such as  
19 this.

20 And then when it applies the credit, it does  
21 so in the manner that has less of an affect on the  
22 incremental consumption pricing, than the current method  
23 does.

24 MR. BYRON WILLIAMS: Thank you for that, and I  
25 was -- I noted from -- and you don't need to turn to it, but

1 when you were -- your response to the first Interrogatory  
2 that the Public Utilities Board asked you, in terms of your  
3 comments on NERA, you noted that it might be considered very  
4 controversial in terms of its treatment of export revenues,  
5 but you seem to suggest that your approach would be as well.  
6 Is that right?

7 MR. JAMES LAZAR: Yes.

8 MR. BYRON WILLIAMS: And I guess you'd agree  
9 with me that one (1) of the reasons that both of your  
10 approaches might be considered controversial is because  
11 they're challenging the -- the status quo or the tyranny of  
12 the status quo, would that be fair?

13 MR. JAMES LAZAR: Change is difficult and this  
14 is sort of a zero (0) sum gain, when we're dealing with cost  
15 allocation. So, if you make changes, you create winners, and  
16 in the process of creating winners you create losers. And  
17 losers are often not very happy about that situation.

18 MR. BYRON WILLIAMS: And just without needing  
19 a great deal of elaboration, as -- as I understand one (1) of  
20 the differences between your preferred routes and the -- the  
21 NERA route is that your preference would be for the export  
22 net revenue, any kind of credit or net revenue benefit to be  
23 applied in a way that's decoupled from consumption.

24 Is that correct?

25 MR. JAMES LAZAR: Yes, that's one (1) of the

1 differences.

2 MR. BYRON WILLIAMS: And that's a fairly  
3 material difference, would that -- would that be fair?

4 MR. JAMES LAZAR: Yes, I think actually the  
5 other difference that I identified in my -- in my evidence,  
6 is the possibility of assigning the low cost resources  
7 entirely to domestic customers, and that would reduce the  
8 \$169 million export credit by some amount. And I haven't  
9 calculated what it would be, but it would be a significant  
10 reduction.

11 MR. BYRON WILLIAMS: So both -- NERA's  
12 proposal and your proposal, are departures from the status  
13 quo. And -- and I think I heard Mr. -- Mr. Wiens say this  
14 morning, I think he was talking about your -- your proposal  
15 as radical. And I'm sure you wouldn't accept that  
16 characterization.

17 But I wonder if you would agree with me that  
18 you move farther away from the status quo than NERA does?

19 MR. JAMES LAZAR: Yes, I do. I'm not quite as  
20 radical as what they've done in Alberta with the oil export  
21 revenue credit, but father away than NERA.

22

23

(BRIEF PAUSE)

24

25 MR. BYRON WILLIAMS: I just want to turn -- I

1 noted in your introductory remarks, you were talking about  
2 your experience, both in appearing before many regulators.  
3 And also in assisting a number of regulatory tribunals in the  
4 international arena, is that correct, sir?

5 MR. JAMES LAZAR: Yes, it's an increasing part  
6 of my work.

7 MR. BYRON WILLIAMS: So, both as a participant  
8 before -- before regulators, as an expert -- providing advice  
9 to regulators in a forum like this, and also kind of in the  
10 back -- back rooms, in terms of providing advice to  
11 regulators, in terms of your international consulting work,  
12 you've had an opportunity to put yourself in the shoes of  
13 regulators from time to time, is that correct?

14 MR. JAMES LAZAR: Well, I haven't ever laced  
15 them up all the way.

16 MR. BYRON WILLIAMS: Well, even with your  
17 shoes partly laced up, I wonder if you'd agree with me, and  
18 I'm sure you'd accept this as well from your experience as a  
19 -- as a participant, or as an expert, that regulators benefit  
20 when they're exposed to a -- a variety of reasonable ideas,  
21 would you agree with that, sir?

22 MR. JAMES LAZAR: Oh, in general, as long as  
23 all of those reasonable ideas are mine.

24 MR. BYRON WILLIAMS: I wonder if I could push  
25 you a little -- little farther and say, not only just your

1 ideas which are reasonable, but you'd agree with me that  
2 regulators benefit from the competition of ideas, whether  
3 it's from the utility, from reasonable individuals like  
4 yourself, or -- or very reasonable individuals like Mr.  
5 Harper?

6 MR. JAMES LAZAR: Regulators benefit from the  
7 diversity of ideas and they are appointed for the express  
8 purpose of being able to consider all of these ideas in -- in  
9 the context of broad public policy goals.

10 MR. BYRON WILLIAMS: And you're aware that in  
11 terms of Manitoba Hydro's responsibilities, in terms of  
12 preparing a study on the subject of inverted rates, that the  
13 -- the new date for the filing of the report is, I believe to  
14 be in December of 2004.

15 Are you aware of that, sir?

16 MR. JAMES LAZAR: Yes, I am.

17 MR. BYRON WILLIAMS: And just asking you to  
18 put yourself in the partially laced up shoes of a regulator,  
19 and recognizing that this regulator has -- has directed the  
20 Manitoba Hydro study to be presented to it.

21 I wonder if you'd agree with me that from  
22 that perspective, if you were that regulator, you'd want to  
23 be in the position, in terms of the issue of inverted rates,  
24 to fully consider the issue, taking into account not only  
25 your August opinion, but Mr. Harper's and the fully informed

1 opinion of Manitoba Hydro.

2                   Would -- would you accept that, sir?

3                   MR. JAMES LAZAR: Yes, I would. And in fact,  
4 the reason that I recommended in my evidence that the  
5 Manitoba Hydro's proposal to move to a flat rate be approved  
6 at this time, and that inverted rates be looked at for  
7 implementation in '06, is the sense that I have in my  
8 experience with regulators, that things do and generally  
9 should, move gradually.

10                   MR. BYRON WILLIAMS: So -- and -- and I  
11 appreciate that -- that answer. So, for the regulator, it  
12 certainly would not be unreasonable to weigh your advice, but  
13 also take into account what Manitoba Hydro's put on -- on the  
14 table. And see what other parties, such as my clients have  
15 recommended to them, once they've had an opportunity to  
16 consider all the -- all the material on the subject.

17                   MR. JAMES LAZAR: Yes, absolutely, when I was  
18 sixteen (16) years old I knew everything, but I've been  
19 slipping since then, and other people have quite a bit to  
20 offer to a discussion now.

21                   MR. BYRON WILLIAMS: I find that as well, Mr.  
22 Lazar, much as it pains me to say that. I thank you once  
23 again for the opportunity to speak with you, and for your  
24 insight you've provided to my clients.

25                   And those are my questions, Mr. Chair.

1 THE CHAIRPERSON: Thank you, Mr. Williams.  
2 Ms. McCaffrey, from MIPUG...? Would you like to --

3 MS. TAMARA McCAFFREY: Mr. Chair, perhaps I  
4 can move perhaps to the side or across the room.

5 THE CHAIRPERSON: Perhaps where Mr. Williams  
6 was and Mr. Peters before him.

7

8 (BRIEF PAUSE)

9

10 CROSS-EXAMINATION BY MS. TAMARA McCAFFREY:

11 MS. TAMARA McCAFFREY: Good morning, Mr.  
12 Lazar.

13 MR. JAMES LAZAR: Good morning.

14 MS. TAMARA McCAFFREY: Just on -- just as a  
15 starting point then, the scope of what you looked at and were  
16 asked to do, basically focused on rate design and demand side  
17 management, is that fair to say?

18 MR. JAMES LAZAR: Primarily, yes.

19 MS. TAMARA McCAFFREY: All right. In the --  
20 in the PUB-TREE-I, do you have that available at all? You're  
21 discussing NERA's proposals?

22 MR. JAMES LAZAR: Yeah, I -- I can bring that  
23 up if it's important, or I can --

24 MS. TAMARA McCAFFREY: You may -- you may not  
25 need to.

1 MR. JAMES LAZAR: Okay.

2 MS. TAMARA McCAFFREY: I'll ask the question,  
3 and then if you need to, you've got the reference.

4 MR. JAMES LAZAR: Yes, I have it.

5 MS. TAMARA McCAFFREY: I just want to make  
6 sure that -- that we're on the same page with respect to what  
7 you're talking about there in terms of net off system or  
8 export sales.

9 First of all, it seems that you've said that  
10 it's appropriate to try to develop an export cost for  
11 customers?

12 MR. JAMES LAZAR: Yes.

13 MS. TAMARA McCAFFREY: Or some other way to  
14 allocate fixed costs and variables to exports, in order to  
15 determine the net off system sales. I'm right there?

16 MR. JAMES LAZAR: Yes.

17 MS. TAMARA McCAFFREY: Second on the top of  
18 the second page of that response, you suggest that there may  
19 be some alternative ways to do this, compared to what NERA  
20 came up with? That's also accurate?

21 MR. JAMES LAZAR: I've identified some  
22 different ways of apportioning costs and calculating the  
23 credit than NERA has.

24 MS. TAMARA McCAFFREY: And in the end, you  
25 support using some new approach to allocating the net off-

1 system revenues. And when I'm talking about net off-system  
2 revenues, I'm talking about net of fixed costs, you know, the  
3 bricks, the mortars types of costs and net of variables,  
4 which include things like water rentals and fuel, the things  
5 you outlined earlier.

6 And that would focus more on infra-marginal  
7 usage, is that -- is that right, sir?

8 MR. JAMES LAZAR: I'm not sure I understand  
9 the question.

10 MS. TAMARA MCCAFFREY: I just want to make  
11 sure that when we're talking about net off-system revenues,  
12 we're actually talking about a number that's less variable  
13 costs, as well as fixed costs?

14 MR. JAMES LAZAR: Yes, I would -- I've used  
15 the \$169 million calculation that NERA presented as my  
16 touchstone and then suggested that there might be some  
17 slightly different ways of calculating a number like that.

18 But I'm not using \$400 million that Hydro has  
19 historically used.

20 MS. TAMARA MCCAFFREY: Thank you. Now, can  
21 you explain infra-marginal?

22 MR. JAMES LAZAR: To me, infra-marginal means  
23 the portion of consumption that is unlikely to vary in the --  
24 in response to -- to prices for a residential customer. My  
25 refrigerator brings me such tremendous value and there are so

1 few alternatives to it that even when I'm in Hawaii where the  
2 electricity is twenty cent (.20) a kilowatt hour, I keep the  
3 milk in the refrigerator.

4                   Whereas space heat or space cooling, there are  
5 substitutes available and they are subject to price  
6 competition. And I -- those are not infra-marginal.

7                   MS. TAMARA MCCAFFREY: And with respect to the  
8 marginal costs, you've recommended that Manitoba Hydro  
9 continue to consider and study a two (2) part or inverted  
10 rate for large commercial industrial customers, that's one  
11 (1) of your recommendations here?

12                   MR. JAMES LAZAR: Yes.

13                   MS. TAMARA MCCAFFREY: Now, I take it you've  
14 had an opportunity to review the evidence filed on behalf of  
15 MIPUG, that of Mr. Osler and Mr. Bowman?

16                   MR. JAMES LAZAR: I've looked at it briefly,  
17 yes.

18                   MS. TAMARA MCCAFFREY: I'm going to refer to a  
19 couple of points that were made at page 10 and 11 in the  
20 evidence. You may not have to turn to it, it's brief points,  
21 I'm going to read the statement to you okay --

22                   MR. JAMES LAZAR: Okay --

23                   MS. TAMARA MCCAFFREY: -- and then I'm just  
24 going to ask you just to give just a brief comment. For  
25 reference, however, I'm looking at page 10 of the pre-filed

1 testimony of Mr. Osler and Bowman.

2 And I'm looking at the last paragraph on that  
3 page, where they're talking about,

4 "Other jurisdictions have recently been  
5 engaging in cooperative efforts to  
6 redevelop industrial rate designs to  
7 attempt to increase the price signals on  
8 the marginal consumption or the part of the  
9 load that is most subject to management,  
10 i.e. conservation by the customer.

11 To both result in increase costs from short  
12 term load incursions and cost savings to  
13 the customer from incremental efficiency  
14 improvements or self-generation."

15 That statement I've read to you, sir, from  
16 that evidence is essentially something similar in principle  
17 to what you're proposing, right? You're proposing that rate  
18 design ought to be refined with a couple of objectives in  
19 mind, but one (1) of which is to attempt to increase the  
20 price signals on the marginal consumption.

21 Am I right there?

22 MR. JAMES LAZAR: Yes, you are.

23 MS. TAMARA MCCAFFREY: Now, in the MIPUG  
24 evidence they also talk again about this cooperative  
25 approach. And at the end of the first paragraph on page 11,

1 sir, the evidence reads that:

2 "It would seem timely to ensure  
3 the Board's directive to Hydro in  
4 this proceeding are aimed at  
5 developing a cooperative proposal  
6 over time between Hydro and large  
7 consumers, to refine rate  
8 designs, to address Hydro's  
9 concerns with respect to price  
10 signals."

11 This is obviously a -- a general sort of  
12 proposal but it's not at odds with the type of thing that  
13 you're coming here and proposing.

14 Is that fair?

15 MR. JAMES LAZAR: I -- I think that's fair.  
16 Although I would want to caution the Board to make sure that  
17 not just large customers and Hydro were engaged in any  
18 discussions designed to produce some kind of a change but  
19 that all stakeholders were invited to the -- to the table.

20 MS. TAMARA MCCAFFREY: That's a very comment,  
21 Sir, and -- and of course that's in keeping with the  
22 discussion you just had with Mr. Williams, where you talked  
23 about how regulators, in particular, benefit from a variety  
24 of ideas and -- contribution from different -- different  
25 sources, different experts, different ideas.



1                   others, should be part of electrical  
2                   utility DSM programs since it does in fact  
3                   save power."

4                   Is that right?

5                   MR. JAMES LAZAR:    Yes, switching to natural  
6 gas I think definitely falls into that situation.  And fuel  
7 choice programs, I think, are an important point.  Some  
8 alternative fuels have adverse environmental impacts that  
9 are, I think, might want to make regulators at least a little  
10 bit skeptical.

11                   I mean, converting people over to direct  
12 burning of coal in residential neighbourhoods, I think,  
13 would, you know, it would be kind of icky.  To use a  
14 technical term.

15                   MS. TAMARA MCCAFFREY:    So common sense would,  
16 of course, have to apply here.

17                   MR. JAMES LAZAR:    Yeah.  But natural gas is -  
18 - is a fairly easy one (1) because any increase -- any  
19 substitution of natural gas for electricity consumption in  
20 Manitoba immediately translates into an export of -- of  
21 electricity from Manitoba and a decrease of either natural  
22 gas or coal consumption south of the border.  And it all  
23 blows back up into Canada anyway.

24                   So, except for the fact that you're  
25 benefitting Ontario, the -- environmentally the shift from

1 electricity to natural gas is one (1) that has pretty  
2 unambiguous environmental benefits whereas some other fuels  
3 might -- might be more -- more of a concern.

4 MS. TAMARA MCCAFFREY: All right, I have no  
5 further questions for you. Thank you very much.

6 THE CHAIRPERSON: Thank you, Ms. McCaffrey  
7 and you couldn't have timed that better. So, we'll stand  
8 adjourned until -- I'm wondering before we go there. I -- I  
9 see we don't have Mr. Anderson here for a MKO. Do you, Mr.  
10 Peters, whether he intends to cross-examine Mr. Lazar?

11 MR. BOB PETERS: Mr. Chairman, in my  
12 discussions with Mr. Anderson, I've kept him aware of the --  
13 the timetable and specifically as to whether he has questions  
14 of Mr. Lazar, I do not know. I suspect not. But I'll try to  
15 follow it up at the break.

16 MS. PATTI RAMAGE: No, I don't.

17 THE CHAIRPERSON: Okay then, we'll stand  
18 down.

19 MS. PATTI RAMAGE: Mr. Chair, I have a  
20 package of undertakings. We didn't get them quite slipped in  
21 and it might be helpful for the parties to have them before  
22 the break but if --

23 THE CHAIRPERSON: Let's do it now.

24 MS. PATTI RAMAGE: Would you like to -- to  
25 assign them exhibit numbers now? Or wait until after the

1 break because there is quite a few in this package.

2 THE CHAIRPERSON: Let's assign the numbers to  
3 save time when we go back to cross-examination.

4 We'll take them now and we'll number them  
5 later.

6 MS. PATTI RAMAGE: Got you.

7 THE CHAIRPERSON: All right, so...

8

9 (BRIEF PAUSE)

10

11 ---Upon recessing at 11:30 a.m.

12 --- Upon Resuming at 2:05 p.m.

13

14 THE CHAIRPERSON: Welcome back everyone. Ms.  
15 Ramage, when we dropped off you were going to introduce the  
16 various exhibits, which there's a significant number here.

17 Manitoba Undertaking No. 5. Do you have  
18 number to propose? I must admit I've lost track in my head  
19 of --

20 MS. PATTI RAMAGE: Yeah. This number five  
21 (5) is actually just an updated version of Exhibit 16.

22 THE CHAIRPERSON: Okay, so it supersedes the  
23 previous distribution of sixteen (16)?

24 MS. PATTI RAMAGE: Yes. And moving through  
25 the package, and I'll take the liberty of -- the numbers have

1 been assigned on the document in front of me so, Exhibit --  
2 or the document labeled, Undertaking No. 7, I'd suggest be  
3 Exhibit NO. 40, which is response to the question, has the  
4 surplus energy program been revenue neutral over the past two  
5 (2) or three (3) years.

6

7 --- EXHIBIT NO. MH-40:           Response to Manitoba Hydro  
8                                   Undertaking NO. 7

9

10                           MS. PATTI RAMAGE:    Then we have a Manitoba  
11 Hydro Undertaking No. 8, wherein Manitoba Hydro was requested  
12 to file the Phase I Initial Review of Risks of the Risk  
13 Advisory Report on drought, and that would be Exhibit number  
14 41.

15

16 --- EXHIBIT NO. MH-41:           Response to Manitoba Hydro  
17                                   Undertaking NO. 8.

18

19                           MS. PATTI RAMAGE:    I apologize, I've missed  
20 under -- oh, no, Undertaking Number 7 is the Surplus Energy  
21 Program. Number 8 is the Risk Advisory Report, which is  
22 Exhibit 41.

23

THE CHAIRPERSON:    Yes.

24

MS. PATTI RAMAGE:    Then Manitoba Hydro  
25 Undertaking Number 24, which would be Exhibit 42, is the

1 reference to the CICA handbook, for capital expenditures.

2

3 --- EXHIBIT NO. MH-42: Response to Manitoba Hydro  
4 Undertaking NO 24.

5

6 MS. PATTI RAMAGE: Undertaking number 26, I  
7 propose it be assigned Exhibit number 43, and that is the  
8 ratio of capital expenditures to total expenditures of  
9 Manitoba Hydro. And then subsequent questions with respect  
10 to payroll dollars and EFTs.

11

12 --- EXHIBIT NO. MH-43: Response to Manitoba Hydro  
13 Undertaking NO. 26.

14

15 MS. PATTI RAMAGE: Manitoba Hydro Undertaking  
16 Number 30, with respect to EFTs which are planned, which with  
17 respect to planned overtime for 2004/'05 and '05/'06, that be  
18 assigned Exhibit number 44.

19

20 --- EXHIBIT NO. MH-44: Response to Manitoba Hydro  
21 Undertaking NO. 30.

22

23 MS. PATTI RAMAGE: Manitoba Hydro Number 32,  
24 requesting information with respect to the thirty-three (33)  
25 EFT increase in IT services, which were the result of

1 transfers and what of those thirty-three (33) increases was  
2 attributable to the fact Manitoba Hydro took over Banner.  
3 And I suggest that be Exhibit 45.

4

5 --- EXHIBIT NO. MH-45: Information in respect to EFT  
6 increases in IT services, which  
7 are the result of transfers and  
8 what of those thirty-three (33)  
9 increases was attributable to the  
10 fact Manitoba Hydro took over  
11 Banner.

12

13 MS. PATTI RAMAGE: Undertaking 35, which deals  
14 with \$20 million dollars reductions in the operate -- in the  
15 O&A costs for 2003/'04, and whether that resulted from  
16 deferred spending to the present and its contingency budget  
17 and I would suggest that be assigned Exhibit number 46.

18

19 --- EXHIBIT NO. MH-46: Response to Manitoba Hydro  
20 Undertaking NO. 35.

21

22 MS. PATTI RAMAGE: Next is Manitoba Hydro  
23 Undertaking Number 36, which we were asked to add a column to  
24 the previous Manitoba Hydro Exhibit Number 24, showing the  
25 updated O & A forecast for '04/'05. I suggest that be

1 Exhibit 47.

2

3 --- EXHIBIT NO. MH-47: Response to Manitoba Hydro  
4 Undertaking NO. 36.

5

6 MS. PATTI RAMAGE: Undertaking Number 37,  
7 which was to update the response to CAC/MSOS-I-18-C, to  
8 specifically reference the treatment of subsidiaries in the  
9 actual and forecast OM&A costs. I suggest that be Exhibit  
10 number 48.

11

12 --- EXHIBIT NO. MH-48: Response to Manitoba Hydro  
13 Undertaking NO. 37.

14

15 MS. PATTI RAMAGE: Manitoba Hydro Undertaking  
16 Number 38 is next, which was a question requesting  
17 confirmation of whether the calculation of the operating  
18 costs per customer of Manitoba Hydro's Corporate Strategic  
19 Plan has been presented consistent with the operating costs  
20 per customer in this Application. And I suggest that be  
21 Exhibit number 49.

22

23 --- EXHIBIT NO. MH-49: Response to Manitoba Hydro  
24 Undertaking NO. 38.

25

1 MS. PATTI RAMAGE: Undertaking Number 39, is  
2 providing the OM&A costs for each year commencing 1998, '99  
3 and ending in 2003, and the calculation Manitoba Hydro used  
4 to achieve the 1.9 percent annual increase. That be Exhibit  
5 50.

6

7 --- EXHIBIT NO. MH-50: Response to Manitoba Hydro  
8 Undertaking NO. 39.

9

10 MS. PATTI RAMAGE: Manitoba Hydro Undertaking  
11 Number 43 was a request by MKO to provide copies of  
12 information communicated to customers, regarding the  
13 implementation of uniform rates. That with the attachments,  
14 be assigned Exhibit 51.

15

16 --- EXHIBIT NO. MH-51: Response to Manitoba Hydro  
17 Undertaking NO. 43.

18

19 MS. PATTI RAMAGE: And then we have  
20 Undertaking Number 44. Mr. Anderson was requested to  
21 assemble -- requested us to assemble extracts from the  
22 Hearing, that are relevant to the description of how the  
23 model -- this would be the splash model is developed and  
24 worked, and file it as an exhibit, I suggest that be assigned  
25 number 52.

1 --- EXHIBIT NO. MH-52: Response to Manitoba Hydro  
2 Undertaking NO. 44.  
3

4 MS. PATTI RAMAGE: And finally, Manitoba Hydro  
5 Undertaking Number 46, was dealing with the goodwill  
6 associated with the acquisition of Winnipeg Hydro, I suggest  
7 that be marked as Exhibit number 53.  
8

9 --- EXHIBIT NO. MH-53: Response to Manitoba Hydro  
10 Undertaking NO. 46.  
11

12 THE CHAIRPERSON: That's fine. Thank you,  
13 very much. Okay, I think, Ms. Ramage, we were up to the  
14 point now where Manitoba Hydro can examine Mr. Lazar.

15 Before beginning I'll just mention something I  
16 should have covered off before. I just want to indicate that  
17 the Board accepts Mr. Lazar as an expert witness.

18 Ms. Ramage...?

19 MS. PATTI RAMAGE: Thank you, Mr. Chair.  
20

21 (BRIEF PAUSE)  
22

23 MS. PATTI RAMAGE: Mr. Lazar, at page 3 of  
24 your rebuttal testimony, and I don't think it's necessary to  
25 turn to it, but you -- you note that since Washington

1 Utilities and Transportation Commission ordered the  
2 implementation of an inverted rate design, that one (1)  
3 significant shift has been for new residential customers to  
4 -- to choose natural gas heat and go on to say:

5 "In 1980, as much as 80 percent  
6 of new homes in Washington  
7 installed electric heat. Today,  
8 that statistic has reversed with  
9 about 80 percent choosing gas  
10 heat."

11 You would agree that switching from an all  
12 electric home to a natural gas home would require a fairly  
13 significant up-front contribution on the part of a customer,  
14 would you not?

15 MR. JAMES LAZAR: Converting an existing home  
16 would, yes. The -- the reversal that I referred to in the  
17 evidence was new construction had been 80 percent electric  
18 and is now 80 percent gas. And where you're installing a new  
19 heating system, the cost differential is much smaller.

20 MS. PATTI RAMAGE: Well, in any event, you  
21 would agree that the gas commodity price itself is not --  
22 would not be within Manitoba Hydro's control?

23 MR. JAMES LAZAR: No.

24 MS. PATTI RAMAGE: And that the gas commodity  
25 price is largely dictated by the market?

1                   MR. JAMES LAZAR:    Yes.  The -- the exception  
2 of that would be if Manitoba Hydro acquired long term gas  
3 resources under contract or by ownership of resources in the  
4 ground.  Some utilities have sought to stabilize their  
5 commodity cost by some form of long term acquisition.

6                   MS. PATTI RAMAGE:    But to -- to make a switch  
7 from natural gas for -- I guess for any consumer actually.  I  
8 was going to say for the one (1) who already has electric  
9 heat but, for any consumer is ultimately an economic decision  
10 and would be dependant on that customer's view of the market  
11 place.

12                   MR. JAMES LAZAR:    It's probably an economic  
13 decision.  It's partly a -- driven by factors such as comfort  
14 and convenience.  Gas water heaters provide essentially  
15 unlimited hot water.  Electric water heaters usually take  
16 much longer to recover.  So there's -- there's some other --  
17 some other factors there that will affect people.

18                   I have one (1) neighbour who -- the only gas  
19 appliance in their home is a gas range.  They like to cook on  
20 gas.  They otherwise have an electric heat pump.  But they  
21 wanted gas for cooking.  That's the way they like to cook.  
22 So, generally, economic but there's some non-economic issues.

23                   MR. ROBERT MAYER:    Some of us think gas  
24 explodes.  
25

1 CONTINUED BY MS. PATTI RAMAGE:

2 MS. PATTI RAMAGE: And -- and in your  
3 evidence, Mr. Lazar, we also -- you explored the idea of a  
4 --- a hookup charge. Now the hookup charge is for the  
5 purpose of encouraging energy efficient building choices. Is  
6 that correct?

7 MR. JAMES LAZAR: Well, it's for the purpose  
8 of recovering the incremental distribution system additions  
9 and perhaps up to the generation level that the utility  
10 incurs to serve a new customer in excess of the revenues that  
11 it will receive from that customers. This is applicable in a  
12 situation like Manitoba Hydro where marginal cost exceeds  
13 tariff rates.

14 One (1) of the benefits of doing so is to  
15 encourage customers to avoid putting that demand on the  
16 utility in order to avoid the hookup charge. But I -- I  
17 would describe the purpose of the hookup charge as being to  
18 recover costs that utility actually incurs to serve.

19 MS. PATTI RAMAGE: It -- it would be a cost  
20 that is -- when you say, a cost to serve, it's a cost that  
21 hasn't been incurred so it's more in the nature of a  
22 deterrent to provide an incentive to avoid that cost. Would  
23 that be right?

24 MR. JAMES LAZAR: If I build an inefficient  
25 house, than Manitoba Hydro needs another five (5) kilowatts

1 of generation capacity, and another five (5) kilowatts of  
2 transmission capacity, and another five (5) kilowatts of  
3 distribution capacity. And that's expensive for Mani --  
4 Manitoba Hydro to build.

5           The hookup charge is my way of compensating  
6 the system for a portion of that cost that you will incur if  
7 I build the inefficient house.

8           If, instead, I choose to build an efficient  
9 house, you don't need some part of that capacity. The  
10 utility doesn't incur that cost. I don't pay a hookup fee  
11 and the cost is avoided to me. The revenue is unnecessary to  
12 the utility and we can go ahead with an efficient house and a  
13 smaller utility.

14           MS. PATRICIA RAMAGE: But the hookup fee, it  
15 wouldn't be in any way dependent then on consumption after --  
16 actual consumption, in terms of how long they left the lights  
17 on or something like that, the hook up fee is something that  
18 you pay -- independent of the price for power; is that  
19 correct?

20           MR. JAMES LAZAR: The way I proposed it, it  
21 would for the residential sector, it would be a fee per house  
22 and for the non-residential sector, it would be a fee per  
23 kilowatt of connected load and it would -- the customer would  
24 then pay the normal tariff right for whatever electricity  
25 they use after they're connected to the system.

1 MS. PATRICIA RAMAGE: So, I understand it --  
2 so it's -- it's independent of the price for power?

3 MR. JAMES LAZAR: Yes.

4 MS. PATRICIA RAMAGE: You also reference in  
5 your evidence -- now, I'm going to find it for myself, the  
6 situation in British Columbia when dealing with export  
7 credits.

8 And you indicated that BC Hydro paid a one  
9 time two hundred dollar (\$200) credit to residential  
10 customers rather than to build the credit into rates.

11 Would you agree that that credit pay in 2001  
12 was in response or directly related to the California energy  
13 crisis, where it related to revenues, export revenues that  
14 the utility earned because of that crisis?

15 MR. JAMES LAZAR: Yes, BC Hydro had the  
16 wonderful I guess I should say, vision, but, I'll at least  
17 say luck of having a very large storage reservoir in Bennett  
18 Dam and was able to make a ton of money during the California  
19 energy crisis.

20 And they decided, rather than reduce rates on  
21 a long term basis to give all the money back in -- in one  
22 shot, one of the reasons for doing that was to not distort  
23 consumer -- consumption habits of consumers.

24 MS. PATRICIA RAMAGE: But, BC Hydro continues  
25 to earn export revenue and incorporate that revenue into

1 their prices today, correct?

2 MR. JAMES LAZAR: Yes, they do. Sort of  
3 normal level of revenues are built into prices.

4 MS. PATRICIA RAMAGE: So, the export credit  
5 that was paid in 2001 was maybe best put as a windfall for  
6 that year because of BC's fortuitous position?

7 MR. JAMES LAZAR: Yes, I think that's a fair  
8 characterization.

9 MS. PATRICIA RAMAGE: Are you aware of any  
10 other -- any jurisdiction that shows the equivalent of an  
11 export credit on customer's bills?

12 MR. JAMES LAZAR: Well, I certainly know of  
13 the -- the opposite of utilities that have imple --  
14 implemented drought surcharges, hydro based utilities that  
15 have put in temporary surcharges during a drought when the  
16 going got rough.

17 But, these are mostly investor owned utilities  
18 and when then the going -- it goes really well they just hid  
19 the money from the regulators and don't give it back. There  
20 have been a couple of rebates not exactly analogous to the  
21 export credit.

22 But, when Pacific Power sold its interest in a  
23 coal plant they had a three (3) credit in rates to return the  
24 -- the windfall profits to ratepayers. After a couple of  
25 mergers, there were merger credits that went in for a year or

1 two (2) or three (3) years, so that customers would see the  
2 economic benefits that were touted as a justification for the  
3 merger.

4                   So, I can think of some temporary decrements  
5 to rates that have been ordered, but, none that were  
6 specifically export related. Of course, I live on the  
7 importing side of the border. So -- don't get to see the --  
8 the benefits of -- of an export credit very much.

9                   MS. PATRICIA RAMAGE: Would it be fair to say  
10 and I believe I'm thinking of an answer you gave to an  
11 information request, but, that you would prefer -- prefer to  
12 see a annual credit of export revenues as opposed to it being  
13 included in the monthly bill at the --

14                   MR. JAMES LAZAR: I would prefer to see -- I  
15 think it would be more beneficial to have a credit that was  
16 decoupled from the -- the monthly bill so that people viewed  
17 the export credit as something that wasn't directly related  
18 to their own power consumption.

19                   I think it would be even better if it really  
20 and truly were not related to their own power consumption.  
21 But the once a year credit of an uncertain amount, based upon  
22 actual export earnings for a previous year, would:

23                   One (1); let customers see the utility tariff  
24 that didn't include the export tariff on a month to month  
25 basis and base their consumption decisions on that. And then

1 when they received a credit of a hundred dollars (\$100), or a  
2 hundred and fifty dollars (\$150), or two hundred dollars  
3 (\$200), once a year, on -- in early December, they probably  
4 wouldn't run out and spend that money on electricity. They  
5 might run out and spend that money on something for their  
6 kids. And they would continue to not distort their  
7 electricity consumption habits.

8 Well, the goal is to not distort the  
9 electricity consumption habits and I think a once year rebate  
10 is a -- is a way of doing that.

11 MR. ROBERT MAYER: Manitoba Hydro as Santa  
12 Claus.

13 MR. JAMES LAZAR: Actually, it's the people  
14 of Minnesota that are -- it's -- it's Manitoba Hydro that has  
15 a team of reindeer.

16  
17 CONTINUED BY MS. PATTI RAMAGE:

18 MS. PATTI RAMAGE: But would you agree that  
19 if we're dealing with the sophisticated customer, that they  
20 would understand that the lump sum related to consumption is  
21 little different than -- than embedding that credit in the  
22 rates?

23 MR. JAMES LAZAR: If the lump sum was  
24 understood that it was going be eight-tenths of a cent times  
25 the number of kilowatt hours consumed during the year, the --

1 the sophisticated consumer would know that in advance and  
2 would incorporate that into their decisions.

3           If, however, what they knew was, they were  
4 going to get a pro rata share of the net export earnings for  
5 the year, but they have no idea what those would be for any  
6 particular year, they would look at their monthly bill of  
7 four (4) cents a kilowatt hour and probably base their  
8 consumption decisions on that and treat a ex-post rebate as a  
9 unplanned windfall.

10           Maybe the most sophisticated consumers would  
11 track Manitoba Hydro wholesale power operations on a week to  
12 week, or month to month basis in order to be able to forecast  
13 that rebate, but I think it would be very customers that  
14 would go to -- to that kind of -- of effort to know what the  
15 rebate would be and let that guide their energy consumption  
16 decisions.

17           MS. PATTI RAMAGE: Yeah. The typical  
18 consumer would, you'd agree -- would likely -- would more  
19 likely use the past a guide to the future than -- than doing  
20 the -- the type of exercise you've just described.

21           MR. JAMES LAZAR: I think would more likely  
22 use the present as a guide to the future. They'd see a -- a  
23 Manitoba Hydro bill that's six (6) cents a kilowatt hour  
24 instead of 5.17 cents a kilowatt hour and respond to that.  
25 And when a cheque came in for a hundred dollars (\$100) or a

1 hundred and fifty dollars (\$150) that in December, they  
2 wouldn't necessarily associate that with -- with their level  
3 of consumption.

4 MS. PATTI RAMAGE: And might -- might that,  
5 certainly if it was implemented immediately, cause undue  
6 hardship on those customers who were unable to budget their  
7 revenues and expenses during the year?

8 MR. JAMES LAZAR: Well, this is where the --  
9 the definition of net export credit becomes important. When  
10 I did the calculation, based upon the NERA methodology that  
11 produced \$170 million dollar credit, I found it was about at  
12 eight-tenths of a cent per kilowatt hour credit.

13 And if that were removed from the base rate,  
14 and showed up as an annual rebate, it would be at eight-  
15 tenths of a cent a kilowatt hour increase to -- to customers.

16 And, yeah, that's a -- you know, that's a  
17 twelve (12), 13 percent rate increase for a Manitoba Hydro  
18 customer. It's not devastating, but it's certainly  
19 significant and would affect customers who would -- would see  
20 it as nothing other than a 13 percent rate increase.

21 And then they would see a cheque for a hundred  
22 (100) or hundred and fifty dollars (\$150) at the end of the  
23 year as a windfall, and they may never associate the two (2).  
24 But the increase, in the short run, would be an increase.

25 It's one (1) of the reasons that I suggested

1 it in my testimony in part that phasing this in over a period  
2 of a couple of years might be necessary to avoid that kind of  
3 rate shock.

4 MS. PATTI RAMAGE: I'm now going to turn to a  
5 -- a brief discussion on -- you talked about putting rolling  
6 averages in, or in terms of an inverted rate structure for  
7 commercial and industrial customers.

8 Now, my understanding is that customers would  
9 grow into their baseline allocations so that in the first  
10 year, if a new commercial customer was to come into Manitoba,  
11 in that first year, 100 percent of that customer's usage  
12 would be at the end-block pricing. Is that right?

13 MR. JAMES LAZAR: Yes, that's shown at the  
14 top of page 11 of my evidence.

15 MS. PATTI RAMAGE: And in the second year I  
16 think it -- it's 70 percent of the higher block as -- at the  
17 higher block of pricing and -- and in the -- I think it's  
18 thirty (30) or 40 percent. Is that right?

19 MR. JAMES LAZAR: 30 percent at the lower  
20 block and 70 percent at the higher block.

21 MS. PATTI RAMAGE: So, that -- that the new  
22 customer will have to compete with the -- the current --  
23 Manitoba Hydro's current customer base paying a different  
24 electricity rate; that's correct?

25 MR. JAMES LAZAR: The new customer would pay

1 exactly the same rate for power that an existing customer  
2 that wanted to increase its load would pay. So, they would  
3 be competing fairly in the sense of serving additional demand  
4 for widgets, or office supplies, or office space, or whatever  
5 it was that the space was.

6           The existing customer that wanted to increase  
7 consumption would pay the same price as a new customer coming  
8 onto the system. They would pay a higher price than the  
9 existing customer maintaining their existing usage.

10           MS. PATTI RAMAGE: So, who would -- you've  
11 just led me to a question. Who would you define as a new  
12 customer? Expansion is included in a new customer?

13           MR. JAMES LAZAR: Well, expansion would be an  
14 increase in the usage of an existing customer, and that  
15 customer in the first year of the expansion, would get 90  
16 percent of their historical usage. So, in essence a 100  
17 percent of their expanded usage would be at the upper block  
18 rate.

19           MS. PATTI RAMAGE: So, by definition then, a  
20 new customer equals new load; is that?

21           MR. JAMES LAZAR: New customer equals new  
22 load, growth of an existing customer equals new load.

23           MS. PATTI RAMAGE: And would you agree that  
24 if the new customer was to take steps to conserve energy in  
25 its operation, that customer will provide exactly the system

1 benefits as those same conservation efforts would produce if  
2 they were to be -- if -- if a long-standing customer was to  
3 take those same conservation efforts.

4 MR. JAMES LAZAR: Yes and under this proposal  
5 both customers would receive exactly the same savings on  
6 their electric bill from taking those measures unless the  
7 measures by an existing customer exceeded the -- the baseline  
8 amount.

9 The example I've got -- and if they conserve  
10 more than 10 percent, they'd be down into their lower block.  
11 But the first 10 percent that they cut back, they would be  
12 getting the end block savings just as a new customer that  
13 chose to install more efficient heating system or lighting  
14 system, would avoid end block savings.

15 And one (1) of the reasons I made the  
16 recommendation in testimony for Hydro to study a couple of  
17 options, is to really look at how many of the commercial and  
18 industrial customers you think could reduce by more than 10  
19 percent with efficiency measures and if there's quite a few  
20 that can, then maybe you want to lower threshold; 80 percent,  
21 something like that.

22 The goal is to give everybody the same  
23 incentive to conserve; new and existing customers.

24 MS. PATTI RAMAGE: Mr. Lazar, something I  
25 hear these -- this group of people tell me throughout the

1 years is that when they explain all these concepts to me, is  
2 all load is new load. That each time we switch a light on  
3 it's new load to the system. And I'm wondering how -- how  
4 the -- your proposals here today mesh with that concept.

5 MR. JAMES LAZAR: I think it meshes very  
6 well. It provides design to provide that the incremental  
7 usage by every customer is priced at the incremental cost so  
8 that, whether it's an existing customer deciding whether or  
9 not to turn a light on, or whether to install a more  
10 efficient light or a new customer deciding whether to buy a  
11 light -- an efficient light, or an inefficient light, all  
12 will be seeing the marginal cost on Manitoba Hydro system as  
13 the price that drives their decision.

14 MS. PATRICIA RAMAGE: That's all the questions  
15 that I had this afternoon. Thank you Mr Lazar.

16 MR. ROBERT MAYER: Mr. Lazar, you've mentioned  
17 that some of the electrical utilities are not price  
18 sensitive, I mean, you mentioned the refrigerator. And why  
19 do I have the distinct feeling that most of us don't actually  
20 look at our hydro bills with a view to -- to reducing our --  
21 our usage.

22 Do you have any statistics on how many of  
23 residential consumers, on the average, would actually make  
24 decisions based on price?

25 MR. JAMES LAZAR: We have a number of what are

1 called, elasticity studies that measure the price response of  
2 -- of different classes of customers to price. They show  
3 uniformly that there is some price response in the  
4 residential.

5           We just finished a pretty substantial study in  
6 California, actually Charles River Associates was the  
7 consultant to the California commission in doing that and  
8 they also did a similar study in Washington and found that a  
9 10 percent increase in the price of electricity would produce  
10 a one (1) to 2 percent decrease in consumption. That's  
11 looking at large numbers of consumers and how did they  
12 actually respond to price changes.

13           So, there is some response. It's not a high  
14 degree of response. Just as response to higher gasoline  
15 prices, in the short run we still go to work every day and  
16 use about the same amount of fuel. In the long run we might  
17 pay attention to the fuel efficiency of the next car we buy.

18           The long term response tends to be greater  
19 than the short term response. And the residential customers  
20 when they see higher electric bills, as a result of higher  
21 marginal electric prices, may pay more attention and buy a  
22 front loading washing machine that spins the clothes dryer  
23 and -- and needs less electricity for water heat and less  
24 energy for the clothes dryer. And that becomes a long term  
25 price response.

1 MR. ROBERT MAYER: Based on that statistic  
2 about the 10 percent, I'm assuming that 10 percent is  
3 probably the level at which you're going to start to see a  
4 price response.

5 So, wouldn't then, assuming your new -- the  
6 inverted rates and assuming this -- I think we talked about  
7 13 percent increase, wouldn't we -- wouldn't Hydro be better  
8 off to do that from the point of view of conservation and  
9 price response, to do that like, bang right now, rather than  
10 phase it in over years?

11 MR. JAMES LAZAR: From a economic and price  
12 response perspective, yes, the example that we talked about,  
13 removing the export credit, using it either for something  
14 else or making it annual rebate, independent of -- of short  
15 term usage, would have a -- the greatest consumer impact.

16 You have to be the judge of whether that's  
17 acceptable from a public policy perspective.

18 THE CHAIRPERSON: Mr. Peters, are you prepared  
19 to begin now.

20 MR. BOB PETERS: Yes. Thank you. And good  
21 afternoon -- good afternoon Mr. Lazar.

22 MR. JAMES LAZAR: Hello.

23 MR. BOB PETERS: On behalf of the Board as  
24 their Counsel on this case, I'd like to ask you some  
25 questions that will hopefully provide us a better

1 understanding of your evidence and your positions while we  
2 have you here.

3

4 CROSS-EXAMINATION BY MR. BOB PETERS:

5 MR. BOB PETERS: Can you tell the Board, to  
6 start off with, how long you have been looking at Manitoba  
7 Hydro's system?

8 MR. JAMES LAZAR: I first looked at Manitoba  
9 Hydro's system analytically in 2002 in my previous appearance  
10 here. Prior to that I had looked at it only with respect to  
11 a couple of small issues. I did a survey of diesel pricing  
12 across North America and Manitoba Hydro was an example that I  
13 used.

14 And I've done various rate surveys and  
15 Manitoba Hydro always shows up as one of the cheapest  
16 utilities in North America when I've done those.

17 MR. BOB PETERS: Would I -- would I be correct  
18 to take from your resume, sir, that your geographic area of  
19 expertise deals with utilities primarily in the Pacific  
20 northwest?

21 MR. JAMES LAZAR: Well, there's -- most of my  
22 career has been in the northwest and the southwest; Arizona  
23 and New Mexico. The last six (6) years I've been doing an  
24 awful lot of my work internationally with the regulatory  
25 assistance project, and I probably know more about the system

1 in Indonesia and Namibia at this point than I do about that  
2 in Oregon.

3 MR. BOB PETERS: That Regulatory Assistance  
4 Program, if I have -- if I have it correct, is where you  
5 would provide services to the regulators in -- in those  
6 countries that are developing regulation I suppose, of their  
7 energy utilities.

8 MR. JAMES LAZAR: Most of our work at RAP has  
9 been funded by the US Agency for International Development,  
10 and we're providing training and technical assistance to  
11 mostly new regulators of newly created regulatory boards that  
12 are establishing a regulatory framework for the first time.

13 MR. BOB PETERS: When you look at Manitoba  
14 Hydro's system, Mr. Lazar, do you find it be capacity  
15 constrained or energy constrained?

16 MR. JAMES LAZAR: Well, the hydro system's  
17 primarily energy constrained, but it's connected to a grid to  
18 the south that is coal/thermal based and is capacity  
19 constrained. So, it has tremendous opportunities to market  
20 the capacity that it has available.

21 MR. BOB PETERS: Do you consider Manitoba  
22 Hydro's rates to its consumers as market rates?

23 MR. JAMES LAZAR: No, I think they're below  
24 market rates.

25 MR. BOB PETERS: And for them to be truly

1 market rates, how would that be determined?

2 MR. JAMES LAZAR: Well, I think one would  
3 first separate the power supply rate from the distribution  
4 rate. I don't know that there's a simple way to measure a  
5 market rate for distribution. I think that most --  
6 throughout the world, regulators that have looked at the  
7 deregulating industry have left the distribution function  
8 regulated. So, let's just talk about generation and  
9 transmission.

10 I think I would look at long term contract  
11 rates that would be available in this grid for power supply  
12 at the load shape of the different customer classes. And I  
13 think that you would find that that power supply availability  
14 was in the four (4) to five (5) cent US range, significantly  
15 higher than the power supply costs of Manitoba Hydro, which  
16 are maybe 40 percent lower than that.

17 MR. BOB PETERS: In your answer, sir, when you  
18 referenced the -- the grid, were you referring to Manitoba  
19 Hydro's grid within the Province, or the grid to which they  
20 are interconnected in the -- through the MISO arrangement?

21 MR. JAMES LAZAR: The grid to which they are  
22 interconnected both east and west within Canada, and to the  
23 south into Minnesota, Wisconsin and -- and the mid-continent  
24 interconnection.

25 MR. BOB PETERS: Would the Board be correct in

1 interpreting your evidence to be primarily to show the Board  
2 that conservation should be a focus going forward?

3 MR. JAMES LAZAR: Well, I'd prefer to think --  
4 use the word efficiency to conservation. Conservation means  
5 too many different things to too many people. Cost effective  
6 energy efficiency should be a focus going forward.

7 MR. BOB PETERS: Does that cost effectiveness  
8 vary with whether or not Manitoba Hydro charges market rates  
9 or below market rates?

10 MR. JAMES LAZAR: No, that wouldn't affect  
11 cost or cost effectiveness, it would only affect price.

12 MR. BOB PETERS: In Manitoba, if a kilowatt  
13 hour is saved, what happens to that kilowatt hour?

14 MR. JAMES LAZAR: Most often that kilowatt  
15 hour is -- is then available for sale off of the Manitoba  
16 Hydro grid, and generates the revenue from sale to the south  
17 or sale east or west.

18 MR. BOB PETERS: So, from a -- let's go back  
19 to my word I guess, a conservation effort, there's really no  
20 -- there's no benefit to Manitobans in that scenario, by  
21 saving that kilowatt hour?

22 MR. JAMES LAZAR: Well, there's the -- there's  
23 the revenue from selling that kilowatt hour off of the  
24 system. And I -- I guess I'm still old-fashioned enough that  
25 I think when somebody gives me money that's a benefit.

1 MR. BOB PETERS: Would the -- would the  
2 displacement benefit then in terms of production or  
3 generation, be that what would exist down in the -- in the  
4 export market?

5 MR. JAMES LAZAR: Yes, using term export to  
6 meet export from Manitoba, not necessarily export from  
7 Canada.

8 MR. BOB PETERS: Does it follow in your  
9 understanding then of economic theory, that if Manitoba Hydro  
10 exports its power to another jurisdiction that can -- can use  
11 it as cheaper power than they could otherwise get, that  
12 that's tantamount to Manitoba, or to perhaps exporting jobs  
13 or value added processes to other jurisdictions?

14 MR. JAMES LAZAR: No, I think actually it's  
15 stealing business from Alberta. Because the export of  
16 electricity I'll say into Minnesota would displace most often  
17 a natural gas fired generating unit in -- in Minnesota. And  
18 then the gas wouldn't be purchased from Alberta.

19

20

(BRIEF PAUSE)

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MR. BOB PETERS: When you talked with my  
colleagues about the inverted rate study that you've  
recommended to this Board, the inverted rate program you've  
recommended to this Board, you've now also indicated you're

1 aware that Manitoba Hydro is doing a study as they've been  
2 requested to do by this Board?

3 MR. JAMES LAZAR: Yes.

4 MR. BOB PETERS: And the date that we've I  
5 think agreed upon from the various Board orders, is that's  
6 expected to be received by this Board by the end of this  
7 calendar year?

8 MR. JAMES LAZAR: That's my understanding,  
9 yes.

10 MR. BOB PETERS: And your initial  
11 recommendation was to go to inverted rates -- was it over a  
12 five (5) year term?

13 MR. JAMES LAZAR: Well, my -- my  
14 recommendation for inverted rates is to -- for them to take  
15 effect in 2006, for the -- for the residential class. I --  
16 specifically recommended that Manitoba Hydro be directed to  
17 file an inverted rate to be effective 2006, that's at the  
18 bottom of page 8 of my evidence.

19 MR. BOB PETERS: No, I recall that and is that  
20 -- is that recommendation one (1) in which the final rate  
21 structure would be in place, or do you see a migration to  
22 this inverted rate structure?

23 MR. JAMES LAZAR: In this proceeding, Manitoba  
24 Hydro is seeking to move from a declining block rate to a  
25 flat rate and I'm recommending that be approved.

1                   The next migration would be -- I'll call it a  
2 mild level of inversion because I think that rate changes  
3 should be made gradually in 2006. And I think there would be  
4 a continued re-examination of the appropriate rate design  
5 thereafter with decisions by this Board or its successors  
6 based upon the information available in 2007 and '08 and 2009  
7 and beyond.

8                   MR. BOB PETERS: I want to deal with the  
9 concept of the inverted rate as it applies to the all  
10 electric consumer in Manitoba. Do you have any idea how many  
11 that would number? How many consumers would be all electric?

12                   MR. JAMES LAZAR: You know I reviewed that  
13 number in the preparation of my testimony and I've -- I'm  
14 pretty sure I can find it. And it's not exactly the same as  
15 zone three (3) because there's quite a few all electric  
16 customers even in zone one (1).

17                   And the number seventy thousand (70,000) comes  
18 to mind, but I think that was a zone three (3) number and so  
19 it would be larger number than that.

20                   MR. BOB PETERS: You've essentially taken zone  
21 three (3) as the proxy for the number of consumers who are --  
22 who are electric -- all electric?

23                   MR. JAMES LAZAR: Yes, and I described that as  
24 an imperfect proxy.

25                   MR. BOB PETERS: As I understood your

1 recommendation for those who are all electric, is that you  
2 could still go to an inverted rate structure, but for policy  
3 reasons you could give them a break?

4 MR. JAMES LAZAR: Yes, you could make the  
5 decision to give them a break, or you could make the decision  
6 to treat them the same as all other customers. If you did  
7 that, you would over time erase the -- the current revenue to  
8 cost ratio deficiency that exists for -- for zone three (3).

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10 (BRIEF PAUSE)

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MR. BOB PETERS: In terms of being economically efficient, you don't see a justification for providing all electric customers with a larger first block, if you will?

MR. JAMES LAZAR: Generally not. There can be an argument that customers that have been on the system for a long time at high usage levels, have contributed to the building of a large low cost system and ought to be entitled to continue to use what they've invested in.

But, in general, I don't think it's a very strong economic argument.

MR. BOB PETERS: You would prefer to make the economic decision and then layer on top of that, any outstanding or additional policy decisions that a regulator

1 may have?

2 MR. JAMES LAZAR: Just -- just as an  
3 economist, I would rather charge all of the customers uniform  
4 rates based upon marginal cost and if I had extra money left  
5 over, give them some money and let them do with the money  
6 whatever they think brings them the most satisfaction.

7 Rate making is -- is a little bit more  
8 complicated than that and -- and one (1) of the -- because  
9 the utilities revenue requirement is -- is a factor in the  
10 equation.

11 One (1) of the ways that a lot of  
12 jurisdictions have handled this is to go ahead and invert the  
13 rates, set cost based rates for all customers and then focus  
14 energy efficiency program and those kinds of subsidies on the  
15 customers that are most adversely affected. Help them  
16 control their usage rather than just giving them subsidized  
17 electricity.

18 MR. BOB PETERS: In your direct evidence to  
19 Professor Miller, this morning, I understood -- or I want to  
20 confirm with you, whether or not you have changed how you  
21 would calculate the first rate block.

22 MR. JAMES LAZAR: My evidence identifies two  
23 (2) different justifications for the first rate block. One  
24 (1) is, I'll call it, a allocation of the low cost Hydro  
25 resource; and the other is a recognition of the load factor

1 differential between initial usage for lights and appliances  
2 and additional usage for water heat and/or space heat.

3 I changed the way I would calculate the first  
4 block differential to reflect the second category that I just  
5 described, that is, the load factor differential. By  
6 accepting Manitoba Hydro's separation of the load factor  
7 calculation between the generation load factor and the  
8 distribution load factor, I think they've done it correctly.

9 MR. BOB PETERS: Well, let's put some numbers  
10 to that. You're initial recommendation was a 250 kilowatt  
11 hour first block?

12 MR. JAMES LAZAR: Yes.

13 MR. BOB PETERS: And that 250 kilowatt hour  
14 first block was primarily based on what you calculated was  
15 the low cost resources available to domestic customers from -  
16 - excuse me -- from their Winnipeg River Generating Stations?

17 MR. JAMES LAZAR: Yes.

18 MR. BOB PETERS: And coincidentally was it,  
19 that from a load factor perspective it was also comparable to  
20 that under your initial calculations?

21 MR. JAMES LAZAR: The Manitoba Hydro load  
22 research had done analysis in the zero to two-fifty (250)  
23 block separate for the usage above that. And so by  
24 happenstance the amount of power that there would be  
25 available, if you took sort of the residential share of the

1 old cheap Hydro projects, works out to about 250 kilowatt  
2 hours a month per customer.

3                   And that happened to match the load research  
4 that Manitoba Hydro had done. That's just happenstance that  
5 they happen -- they came out the same. But it provided a  
6 convenient basis for suggesting a -- a very low cost initial  
7 block.

8                   MR. ROBERT MAYER:    Just be -- excuse me a  
9 minute, Mr. Peters. Where would you put that piece of the  
10 puzzle that we have been told it costs the system just to be  
11 hooked to it before you turn a switch?

12                   MR. JAMES LAZAR:    The jointly used part of  
13 the system, I believe, should be recovered in usage related  
14 charges. The customer specific part of the system, I  
15 believe, belongs in a customer specific charge.

16                   So the service drop to the house, the meter --  
17 reading the meter, rendering the bill, processing the  
18 payment, to me is customer specific and should be the basis  
19 for the -- the monthly basic charge.

20                   The jointly used facilities -- the  
21 distribution circuit, the line transformers, the substations,  
22 to me is a cost that won't go away if my house burns down.  
23 And it won't go up if I divide my house into a duplex. And  
24 it's not a customer specific cost and it doesn't belong in a  
25 customer specific charge.

1                   And that's an area that -- where I have a  
2 disagreement with the way Manitoba Hydro has done their cost  
3 study. It's a little beyond the focus of my evidence here.

4                   But the -- the entire system has to be there  
5 all the way back to the generating facility for there to be  
6 electricity coming to the switch. But it's the customer  
7 specific part that I think belongs in a customer specific  
8 charge.

9

10 CONTINUED BY MR. BOB PETERS:

11                   MR. BOB PETERS: Just to follow up on the  
12 Vice-Chair's questioning. The customer specific charges have  
13 been quantified at approximately eighteen dollars and sixty-  
14 seven cents (\$18.67) a month by the utility, have they not?

15                   MR. JAMES LAZAR: The cost that the company as  
16 identified as customer related have been quantified to that  
17 level, but that includes a portion of the distribution  
18 circuit cost.

19                   And I don't -- would not include the  
20 distribution circuit cost in that calculation. I -- if I can  
21 have the pre-costs back, I can -- on page 21 of Section B of  
22 the prospective Cost of Service Study, it shows that 40  
23 percent of the pole, wire, and related facilities, were  
24 classified as customer related. And that's the area where I  
25 have a methodological difference with -- with the company.

1                   And if that were removed, the eighteen dollars  
2 (\$18) would go down to some lower level, and I don't know  
3 exactly what it would be.

4                   MR. BOB PETERS: All right, while you don't  
5 know the specific amount, can you put it into a ballpark for  
6 the Board, in terms of what you would -- what you could  
7 recalculate this customer class to be?

8                   MR. JAMES LAZAR: Well, I've done that  
9 calculation for three (3) other utilities in the last three  
10 (3) months. None of them Manitoba Hydro. And for all three  
11 (3) of them it came to between four (4) and five and a half  
12 dollars (\$5.50) a month US per customer.

13                   So, it's similar magnitude to the six twenty-  
14 five (6.25) now being charged. Maybe a little bit more.

15                   MR. BOB PETERS: So your suggestion then is  
16 that you wouldn't have to readjust the basic monthly charge  
17 very much from what's presently being sought, to follow your  
18 methodology?

19                   MR. JAMES LAZAR: I don't think so, no. But  
20 it would be I think fairly easy for Manitoba Hydro to -- to  
21 segregate out that eighteen dollars (\$18) between the  
22 customer specific and -- and the joint facilities.

23                   MR. BOB PETERS: Back, Mr. Lazar to the -- the  
24 inversion level, in terms of the energy blocks. Your initial  
25 recommendation, as I understood it was a first block of 250

1 kilowatt hours, and I think you've agreed with me that was  
2 initially where you were -- where you were positioned?

3 MR. JAMES LAZAR: Yes.

4 MR. BOB PETERS: And as a result of the  
5 methodology that Manitoba Hydro showed you in their rebuttal  
6 evidence, I believe, what would you -- what would you be  
7 prepared to revise your first block limit to?

8 MR. JAMES LAZAR: Well, the first block would  
9 still be 250 kilowatt hours. The level of inversion  
10 justified by load factor would decrease from a one point  
11 seven-five (1.75) cent inversion, to a zero point nine-five  
12 (0.95) cent inversion. The amount of inversion related to --  
13 I'll call it old versus new or cheap versus less cheap hydro  
14 facilities would not be affected.

15 MR. BOB PETERS: And this again, does not  
16 assume there would be for policy reasons, any dispensation  
17 granted to those who use electricity for space heat?

18 MR. JAMES LAZAR: No, I've described in my  
19 evidence an option for the Board to consider for customers  
20 who do not have gas available, some of those -- most of those  
21 probably do use electricity for space heat. Some of them  
22 probably use oil or propane for space heat. But I would do  
23 it on a gas available, gas not available basis, rather than a  
24 choice of heating fuel basis.

25 MR. BOB PETERS: And the option that you were

1 suggesting to the Board was they could pick a number that  
2 would represent an amount that would include some space heat  
3 to receive at the lower rate?

4 MR. JAMES LAZAR: Well, it would. I  
5 recommended a 1,000 kilowatt hours a month, with the  
6 understanding that even at the 2,000 kilowatt hour a month  
7 level, customers would still be enjoying some savings. The  
8 bills would actually cross over at something approaching the  
9 average use of space heat customers.

10 MR. BOB PETERS: You haven't studied that --  
11 that kilowatt hour level in Manitoba where the actual cross  
12 over would be?

13 MR. JAMES LAZAR: I did review the bill  
14 frequency analysis for the Zone 3 customers in choosing the  
15 rate design that I did. And did some basic analysis that  
16 convinced me that at a 1,000 kilowatt hours a month, the  
17 space heat customers in Zone 3 would see -- who didn't change  
18 their usage patterns, would see little change in their annual  
19 electricity bill.

20 MR. BOB PETERS: Okay. Thank you. And in  
21 terms of the industrial customer, the inverted rates, My  
22 Friend Ms. Ramage, had a few questions on that. But  
23 basically you are recommending that a baseline be established  
24 for each commercial or industrial customer?

25 MR. JAMES LAZAR: Yes, it's -- of all of the

1 options for dealing with commercial and industrial customers,  
2 that seems like the least problematic. I don't even  
3 necessarily want to call it the easiest, because it's not  
4 easy, but the least problematic.

5 MR. BOB PETERS: And your suggestion is a  
6 three (3) year average and then pick a percentage after which  
7 a higher block would be charged?

8 MR. JAMES LAZAR: Yes.

9 MR. BOB PETERS: And in your evidence you say  
10 a three (3) year average and I think you say 90 percent of  
11 the energy that they would use under that average would be at  
12 the first block and the remaining would go at the higher tail  
13 block?

14 MR. JAMES LAZAR: Yes, at the top of page 10,  
15 I say as an example, following the BC approach, each customer  
16 would get 90 percent.

17 I'm not particularly attached to 90 percent.  
18 80 percent might be a better number if Manitoba Hydro finds  
19 that its -- existing commercial customers have on average,  
20 more than a 10 percent cost effective efficiency potential.  
21 You would want to lower the threshold so as to provide them  
22 with a tail block rate that applied to everything that they  
23 can economically avoid.

24 MR. BOB PETERS: Would the Board be correct in  
25 assuming that under your example and we'll stick with the 90

1 percent and the 10 percent example, that the first time it's  
2 done it would be done on a revenue neutral, by class basis?

3 MR. JAMES LAZAR: Yes.

4 MR. BOB PETERS: And following up on Ms.  
5 Ramage's question, if you were bringing a new business into  
6 Manitoba to compete here, you would not get the benefit of  
7 having a pre-established baseline correct?

8 MR. JAMES LAZAR: That's correct. You would  
9 have to earn it.

10 MR. BOB PETERS: And to earn it you'd have to  
11 stick around for a few years, correct?

12 MR. JAMES LAZAR: Well, you'd start earning it  
13 in the beginning of the second year.

14 MR. BOB PETERS: And in doing your business  
15 plan to decide if you were going to set up in Manitoba, you  
16 would recognize that you'd be starting off at an economic  
17 disadvantage to a company who does exactly the same thing you  
18 did, but has been set up here prior to you?

19 MR. JAMES LAZAR: No, you would have exactly  
20 the same economics as an existing business that was seeking  
21 to serve the growing demand for whatever you're -- you're  
22 producing, as they would.

23 That is, for them to grow their business would  
24 pay the tail block rate, for you to grow your business would  
25 pay the tail block rate.

1 MR. BOB PETERS: That's --

2 MR. JAMES LAZAR: We would be protecting the  
3 existing business and its existing market share from -- from  
4 competition in effect, but exposing existing business to  
5 exactly the same incentives as a new business in securing  
6 additional market share.

7 MR. BOB PETERS: Maybe you've drawn the  
8 distinction then as to competing for additional market or new  
9 market. But in terms of competing for existing market, the  
10 new competitor would be at a disadvantage?

11 MR. JAMES LAZAR: Yes.

12 MR. BOB PETERS: Do you see that potentially  
13 such a -- such a industrial or commercial inverted rate  
14 program would perhaps limited economic growth in Manitoba?

15 MR. JAMES LAZAR: I think actually the -- the  
16 opposite. I think it would have the effect of discouraging,  
17 as I mentioned earlier, some very energy intensive businesses  
18 from locating in Manitoba.

19 I think there's a strong incentive for a  
20 chloralkali industry or the aluminum industry to locate here  
21 now. And if they were to locate they would gobble up so much  
22 of your low cost power that it would have long term adverse  
23 effects on all business in Manitoba.

24 This approach, I think, would serve to  
25 discourage very energy intensive industry but would be a very

1 insignificant deterrent to any other business or industry  
2 that might come to Manitoba.

3           So protecting the existing jobs while not  
4 discouraging new jobs very much, I think is better than the  
5 current policy, which invites energy intensive industry,  
6 creating a threat to all existing business in Manitoba.

7           MR. BOB PETERS: Just so I can digest that  
8 last answer, Mr. Lazar, you're saying under Manitoba Hydro's  
9 existing pricing policies, new industry could come to  
10 Manitoba because of the cheap energy prices, and that would  
11 remove the ability of Manitoba Hydro to export it at -- at  
12 higher prices. And that would therefore hurt the entire  
13 customer base in Manitoba?

14           MR. JAMES LAZAR: That's correct, yeah,  
15 basically if you have a -- a limited amount of roast beef at  
16 your buffet table, you don't want to invite me to come up here  
17 from America and get in line at the buffet table.

18           MR. BOB PETERS: But you do want to keep the  
19 -- the Manitoba people liking roast beef still at the buffet  
20 table, and just discourage new entrance to the line of the  
21 buffet?

22           MR. JAMES LAZAR: That's correct. That's  
23 correct.

24           THE CHAIRPERSON: May not be the greatest  
25 example, since we can't ship the roast beef to you.

1                   MR. ROBERT MAYER: Depending on the results  
2 from the latest cow.

3

4 CONTINUED BY MR. BOB PETERS:

5                   MR. BOB PETERS: Have you any examples, Mr.  
6 Lazar, where Manitoba Hydro's current policy has I suppose,  
7 operated to the detriment by bringing in energy intensive  
8 companies to Manitoba?

9                   MR. JAMES LAZAR: I have a vague recollection  
10 of a conversation to that affect, and I don't recall the  
11 specifics of it. But there was an expansion or addition of a  
12 -- of a chemical industry or another energy intensive  
13 industry here in the last few years, but I don't recall -- I  
14 don't recall the details of the discussion.

15                   MR. BOB PETERS: All right, then let me just  
16 help that. If an existing Manitoba company that uses  
17 considerable energy expands its facilities, to maybe take  
18 advantage of economies of scale or those types of things.  
19 That too, you would say would be detrimental to the remaining  
20 customers of the system?

21                   MR. JAMES LAZAR: That would be detrimental to  
22 the remaining customers on the system. Under my proposal for  
23 the first three (3) years they would pay a tail block rate  
24 for a portion of their power and then would earn a new base  
25 line and get the same benefits of the system as everyone

1 else.

2                   On making the decision to expand, I think  
3 three (3) years is not a long time, but in making a decision  
4 of what kind of efficiency measures to install in the  
5 facility that they're expanding, three (3) years might  
6 actually influence what they would install. You wind up with  
7 a new business or an expanded business that's more efficient  
8 than it otherwise would have been.

9                   MR. BOB PETERS: Assuming this energy  
10 intensive business decides to come to Manitoba, because of  
11 the low energy prices and thinks it can survive for the first  
12 three (3) years, doesn't it then present the same problems  
13 starting in year four (4), that you're worried about in year  
14 one (1), with no inverted rates?

15                   MR. JAMES LAZAR: Yes, after making a three  
16 (3) year investment to -- to join the system, they would have  
17 the same rights as anybody else. It's just the -- the first  
18 three (3) years I think would -- would serve to at least  
19 partially deter energy intensive business.

20                   And you put this in the context of -- of a  
21 normal business that's using ten thousand (10,000) or 20,000  
22 kilowatt hours a year per employee, we're talking about maybe  
23 a hundred dollars (\$100) a year of extra cost per employee.  
24 A pretty small number in the context of a hundred thousand  
25 dollar (\$100,000) a year turnover per employee for a typical

1 business.

2                   But where you've got an energy intensive  
3 industry like a smelter or a chlorine plant that's using 3  
4 million kilowatt hours a year per employee, and employs you  
5 know, eighteen (18) people and uses 42 megawatts of power, it  
6 becomes pretty significant.

7                   So, it's not discouraged -- not much of a  
8 discouragement to a labour intensive employer, but it would  
9 affect an electro process employer.

10                   MR. BOB PETERS: Without sounding like I'm  
11 with the Chamber of Commerce, but it's your last couple of  
12 answers seem to suggest that it's not a good idea to use low  
13 energy costs as a basis for encouraging new industry in  
14 Manitoba?

15                   MR. JAMES LAZAR: It's certainly one (1) of  
16 the things that Manitoba has to offer and will continue to  
17 have to offer new industry. I don't think you should use it  
18 to attract particularly energy intensive industry.

19                   If they will wind up -- if I just use the  
20 example of -- of a smelter, an aluminum smelter using 3  
21 million kilowatt hours per year, comes on to the system  
22 paying three (3) cents a kilowatt hour, when that power could  
23 otherwise be exported for six (6) cents. That's a three (3)  
24 cent per kilowatt hour subsidy, times 3 million kilowatt  
25 hours a year, that's ninety thousand dollars (\$90,000) a year

1 per job in subsidy from other Manitobans.

2 At the risk of sounding like the Chamber of  
3 Commerce, I don't think a ninety thousand dollars (\$90,000) a  
4 year subsidy is really the way to attract new jobs to  
5 Manitoba. Better you should pay people sixty thousand  
6 dollars (\$60,000) a year to not work.

7 MR. ROBERT MAYER: That's an interesting  
8 concept for minimum wage.

9

10 CONTINUED BY MR. BOB PETERS:

11 MR. BOB PETERS: Let me move, Mr. Lazar, to  
12 the export credit and I wonder if it would be helpful if  
13 Professor Miller could, together with the Board and other  
14 parties, turn to the book of documents that I provided  
15 initially.

16 THE CHAIRPERSON: Mr. Peters?

17 MR. BOB PETERS: Yes?

18 THE CHAIRPERSON: How much more time are you  
19 going to require?

20 MR. BOB PETERS: Probably another twenty (20)  
21 minutes.

22 THE CHAIRPERSON: Let's have a seven (7)  
23 minute break now.

24 MR. BOB PETERS: Thank you.

25

1 --- Upon recessing at 3:07 p.m.

2

3 --- Upon resuming at 3:30 p.m.

4

5 THE CHAIRPERSON: Mr. Peters?

6 MR. BOB PETERS: Thank you, Mr. Chair.

7 THE CHAIRPERSON: Today is the -- obviously  
8 the Federal election day, so we'll be shutting right down at  
9 4:00 so --

10 MR. BOB PETERS: Thank you.

11 THE CHAIRPERSON: That's not a suggestion that  
12 you would normally run right 'til then.

13 MS. PATRICIA RAMAGE: Mr. Chair, you're  
14 getting the hang of this aren't you?

15 MR. BOB PETERS: I understand the comment.

16

17 CONTINUED BY MR. BOB PETERS:

18 MR. BOB PETERS: Mr. Lazar, I've taken from  
19 your direct evidence and the questions posed by My  
20 Colleagues, that you support an export class being  
21 established to deal with these outside of Manitoba power sale  
22 revenues that are talked about?

23 MR. JAMES LAZAR: Yes, they seem to be a long  
24 term feature of the utility and I think they should be  
25 recognized as having cost responsibility for generation,

1 investment and operating costs.

2 MR. BOB PETERS: And I was looking for a  
3 comment and maybe I only have it committed to memory, but I  
4 think your view was that the methodology that was being  
5 employed by NERA, was not, in your view, considered optimal.  
6 Have I got that right?

7 MR. JAMES LAZAR: Actually, it was the current  
8 methodology that's been used that I described as second best.  
9 I think the NERA methodology is a substantial improvement. I  
10 have relatively minor issues that I would have with the --  
11 with the NERA report. But, as I say, they're -- they're  
12 really pretty minor.

13 MR. BOB PETERS: Well, one (1) of those minor  
14 points was that you would consider assigning the oldest and  
15 cheapest resources to domestic customers and then use the  
16 NERA methodology for the other customers?

17 MR. JAMES LAZAR: Yes, I would consider that.

18 MR. BOB PETERS: Can you tell the Board, is  
19 the split on the old Hydro versus the new Hydro, generating  
20 stations or sources of -- of power, as of a specific date?

21 MR. JAMES LAZAR: When I did my testimony in  
22 2002, I did it strictly geographically, the Winnipeg river  
23 versus everything in the north. In this proceeding, the --  
24 Manitoba Hydro responded, well, wait a minute, we've got a  
25 couple of older cheap projects in the north. And that's

1 true. And they were integrated to the system before the DC  
2 inter-tie was built was my understanding.

3 And so maybe it's appropriate to consider  
4 those also. But, clearly the newer northern facilities and  
5 the DC inter-tie that was built in order to move that power  
6 to market are in a different category.

7 MR. BOB PETERS: Which were the key plants?

8 MR. JAMES LAZAR: You know, I have that -- I  
9 can bring that up. And I'll try and do that if I can --

10 MR. BOB PETERS: I'm assuming that Kelley was  
11 one(1). Did they call Grand Rapids and Kettle?

12 MR. JAMES LAZAR: Remember I'm a foreigner, I  
13 have to actually look at data in order to assign names and  
14 numbers to things.

15 MR. ROBERT MAYER: We can probably get that  
16 from Hydro a little later.

17

18 (BRIEF PAUSE)

19

20 MR. ROBERT MAYER: Mr. Peters is going to  
21 complain I'm cutting into his time here.

22

23 (BRIEF PAUSE)

24

25 MR. JAMES LAZAR: Kelley, Kettle, and Long

1 Spruce were the cheap ones.

2

3 CONTINUED BY MR. BOB PETERS:

4 MR. BOB PETERS: Mr. Lazar, I believe  
5 Professor Miller has in front of you, at Tab 30 of a book of  
6 documents that has been previously used in these Proceedings.  
7 And Tab 30 is out of Manitoba Hydro's Cost of Service Study  
8 for March 31, 2004, and it's Schedule A-1.

9 Have you that in front of you, sir?

10 MR. JAMES LAZAR: Yes, I do.

11 MR. BOB PETERS: As I understand your -- your  
12 recommendations to the Board on export credits. As I said,  
13 you -- you seem to agree to establish an export class, if the  
14 Board is of like mind, and then allocate an export credit  
15 back to the customers in some fashion that's not tied to  
16 their consumption, and maybe will be irregular as well, in  
17 terms of amount.

18 MR. JAMES LAZAR: Yes, but the export credit  
19 that I'm referring to is not the \$419 million that's shown in  
20 the net export revenue column on this page. That to me is  
21 the sort of the gross export revenue, it doesn't include an  
22 assignment of power supply costs.

23 MR. BOB PETERS: I appreciate that, sir, but  
24 stay with me then if you would on Schedule A-1, which is at  
25 Tab 30. We can see in the middle column, the RCC percentage

1 pre-export allocation.

2 MR. JAMES LAZAR: Yes.

3 MR. BOB PETERS: Have you found that column?  
4 That's basically saying that the residential customers,  
5 according to these numbers, are paying approximately 63.9  
6 percent of their allocated costs; correct?

7 MR. JAMES LAZAR: Yes, for about 95 percent of  
8 the system average.

9 MR. BOB PETERS: And you're saying the system  
10 average then is the 67.7 percent found at the total general  
11 consumers line in the same column?

12 MR. JAMES LAZAR: Yes.

13 MR. BOB PETERS: And you also are saying that  
14 this is one (1) way of calculating that number, but it's not  
15 the -- not the method that you would recommend, is what  
16 you've said?

17 MR. JAMES LAZAR: That's correct.

18 MR. BOB PETERS: You would prefer the Board  
19 used the methodology that's found two (2) tabs later in the -  
20 - in the brief of documents, at Tab 32, which is -- which is  
21 the revised cost of service that incorporates some of the  
22 recommendations from the NERA Report.

23 MR. JAMES LAZAR: Yes. Although I might stop  
24 at Tab 31 along the way, in order to note that Tab 31 breaks  
25 down the three (3) residential zones separately, and shows a

1 significantly different revenue cost coverage in Zones 1 and  
2 2, than Zone 3.

3 I might want to do the same thing in Tab 32,  
4 so that the -- the cost that is imposed by the Uniform Rate  
5 Legislation is at least made explicit.

6 MR. ROBERT MAYER: Don't go there, Mr. Lazar,  
7 or you and I are going to have a real scrap. I live in what  
8 used to be Zone 3, which I understood was eliminated by  
9 Legislation.

10

11 CONTINUED BY MR. BOB PETERS:

12 MR. BOB PETERS: Let me -- let me try to help  
13 you out here and not get into the fisticuffs at this point,  
14 Mr. Lazar. But your purpose of stalling here on Tab 31, is  
15 to demonstrate to the Board that the -- numerically, the  
16 source for the low RCC can be found attributed to customers  
17 in the low density area.

18 MR. JAMES LAZAR: Yes, that's -- that's  
19 correct. And there was some discussion both on the Hydro  
20 evidence and I think the -- the Society of Seniors, and in  
21 the NERA Report itself, about applying some portion of the  
22 export credit first, to cover those -- those low density  
23 costs, and then applying them elsewhere. And I don't  
24 necessarily think that would be a mistake.

25 The low density costs are clearly a result of

1 policy decisions, not -- not accounting analysis. And using  
2 the export credit to -- to cover the costs of that policy  
3 determination might be a reasonable approach.

4 MR. BOB PETERS: But with respect, Mr. Lazar,  
5 that would be a decision to be made once the Board determined  
6 it would even go to an export class and secondly as to a  
7 methodology to calculate what would be the next -- net export  
8 revenue.

9 MR. JAMES LAZAR: Well, actually --

10 MR. BOB PETERS: The -- the third step would  
11 be how to -- how to share the wealth.

12 MR. JAMES LAZAR: Actually, the decision of  
13 how to share the wealth needs to be made whether there's an  
14 export class or not if the export revenue is going to be  
15 factored into Hydro's revenue requirement. It -- we could do  
16 that on Tab 30 just as easily.

17 We could take Tab 30 which has exports  
18 calculated sort of the current way. Break residential into  
19 three (3) zones and apply a portion of the \$419 million to  
20 cover the low density area deficiency and then apply the rest  
21 in the method that's -- that's shown in Tab 30.

22 I think that the decision of using export  
23 revenue to support low density areas can -- is independent of  
24 whether an export class is created. And the creation of an  
25 export class is independent of whether the export revenue is

1 used to cover the low density areas. I happen to think that  
2 both have merit.

3 MR. BOB PETERS: And the low density areas in  
4 Manitoba have contributed approximately \$14.8 million to the  
5 -- to the additional revenue required from that class to get  
6 towards unity in their RCC.

7 MR. JAMES LAZAR: I'm not sure I see where  
8 you're referring to.

9 MR. BOB PETERS: Let me ask it this way then,  
10 Mr. Lazar. Do you know what the financial impact of the  
11 decision to go to uniform rates was in Manitoba on the  
12 utility?

13 MR. JAMES LAZAR: Well, I've -- I've reviewed  
14 that in -- in one (1) of -- I think it was one (1) of the  
15 MIPUG data responses, but I didn't commit it to memory.

16 MR. BOB PETERS: And my suggestion to you,  
17 Sir, is was around the fourteen (14), \$15 million mark.

18 MR. JAMES LAZAR: That -- that sounds like  
19 the right order of magnitude.

20 MR. BOB PETERS: All right. Let's then --  
21 let's then turn to Tab 32, if I could.

22 The revised prospective cost of service study  
23 that's on TREE/RCM MH-II-13, also has a column in the middle  
24 called, RCC Percentage Pre-Export Allocation. Correct?

25 MR. JAMES LAZAR: Yes.

1 MR. BOB PETERS: And here again, the  
2 residential class is considered as a whole which other  
3 classes are as well at various line items and a percentage is  
4 allocated based on the NERA methodology.

5 MR. JAMES LAZAR: Yes.

6 MR. BOB PETERS: And we see again, that for  
7 example, the residential class is below the class average of  
8 84.1 percent.

9 MR. JAMES LAZAR: Yes, and I expect that that  
10 again is driven by the -- the impact of the uniform rate  
11 requirement in the low density areas.

12 MR. BOB PETERS: Just to be clear then, for  
13 the Board, before the export credit is assigned, is it your  
14 recommendation that the class revenues equal the class costs?

15 MR. JAMES LAZAR: No, not necessarily.  
16 Almost every utility has deviations between costs and  
17 revenues.

18 Those exist for a variety of reasons,  
19 including the limited precision of cost of service analysis,  
20 the desire to have rates that reflect perceptions of equity  
21 and fairness, gradualism in moving towards the results of a  
22 cost study and, in many cases, forecasts of where costs will  
23 go in the future. Not wanting to, if you will, overshoot.

24 MR. BOB PETERS: Would you agree with me  
25 then, that under your recommendations, you would at least

1 want the total consumer's revenue to equal total consumer's  
2 costs before the allocation of export credits?

3 MR. JAMES LAZAR: Ideally that would be my  
4 recommendation and that -- in -- in the context of having the  
5 export credit be completely decoupled from -- from rates and  
6 show up as a -- as a periodic rebate to either electric  
7 consumers or tax payers in some manner unrelated to  
8 consumption.

9 The goal would be to have the tariff rates  
10 produce the utilities -- excuse me -- the tariff rates  
11 applied to retail sales, plus the export revenues required to  
12 recover export costs, to cover the utilities revenue  
13 requirements and then have the export revenues in excess of  
14 export costs available for distribution, independent of  
15 electric usage.

16 MR. BOB PETERS: Does that follow from your  
17 answer Mr. Lazar that to get to that ideal point, the  
18 residential customers, RCC would have to increase from 77.3  
19 percent up to the zone of reasonableness, whether it be, 95  
20 percent or any number below 105 percent.

21 MR. JAMES LAZAR: Yes, with the caveat of what  
22 we discussed a moment ago, that the 77.3 includes the effect  
23 of the uniform rate legislation. And one might want to  
24 separate that effect and -- and treat it differently, in  
25 which case you'd be looking at going from 83 percent,

1 something like that up to -- the zone of reasonableness.

2 MR. BOB PETERS: All right. And can you tell  
3 the Board, in your opinion sir, what would you consider to be  
4 rate shock en route to getting to such a -- such a RCC?

5 MR. JAMES LAZAR: Well, I think that a 10  
6 percent increase in rates, in a single year is to me where  
7 rate shock begins. Now, that was a -- I've had that position  
8 for a couple of decades.

9 And in saying that, it was built in an era of  
10 inflation that averaged 5 percent. And with lower inflation  
11 I might take it down a percentage point or two (2).

12 MR. BOB PETERS: Does your answer apply  
13 whether it's a residential customer or a commercial or  
14 industrial customer?

15 MR. JAMES LAZAR: Yes, it does. And for that  
16 reason I think that one moves -- needs to move gradually to  
17 do this.

18

19

(BRIEF PAUSE)

20

21 MR. BOB PETERS: In terms of passing on an  
22 export credit to consumers, one (1) methodology, as I  
23 understood from the evidence so far, is that you could pass  
24 on an expected export credit, maybe based on this flash model  
25 or some other indicator as to what Manitoba Hydro would

1 expect to be the export credit in a forecast year?

2 MR. JAMES LAZAR: Yes, that would be one (1)  
3 approach.

4 MR. BOB PETERS: And if that was done, sir,  
5 would it follow then that the risk being taken is that of the  
6 corporation, as opposed to the consumer, in terms of whether  
7 that export level is achieved?

8 MR. JAMES LAZAR: Yes.

9 MR. BOB PETERS: And what happens if the  
10 export level is not achieved, is the -- does the utility get  
11 a chance to recover part of that through increased rates, or  
12 does the utility have to suffer that shortfall?

13 MR. JAMES LAZAR: Well, in the short run, the  
14 utility suffers the shortfall through attrition of its  
15 retained earnings. But in the long run, the utility is  
16 allowed whatever the Board allows the utility to do.

17 If the utility applies for a drought surcharge  
18 and the Board allows it, then it goes back onto the  
19 customers.

20 MR. BOB PETERS: The other methodology would  
21 be to be passed through the actual export credits that would  
22 be based on some calculation of what actual results have been  
23 over a period of time, correct?

24 MR. JAMES LAZAR: Yes.

25 MR. BOB PETERS: And in that instance, it

1 would be the consumers who would bear the risk as to whatever  
2 those credits would be?

3 MR. JAMES LAZAR: That's correct. And that's  
4 -- that's basically, you know the way the Alaska permanent  
5 fund example on page 13 of my evidence works. It's done over  
6 a period of time and it's a portfolio so it moves kind of  
7 slowly, but the -- whatever the actual earnings of the  
8 permanent fund are, are what the citizens of Alaska say.

9 MR. BOB PETERS: Well, let's segue there as My  
10 Friend, Mr. Williams would say, because I did have a question  
11 about that.

12 This Alaska permanent fund is really a payment  
13 to those residents in Alaska, based on how well the  
14 investment of the crude oil royalties comes out?

15 MR. JAMES LAZAR: Yes, that's correct.

16 MR. BOB PETERS: And what I took from your  
17 evidence is what you liked about it, it was unpredictable in  
18 amount and therefore consumers can't bank on it in advance?

19 MR. JAMES LAZAR: That's -- well the first  
20 thing I like about it is, that it's rebated to consumers,  
21 independent of their oil consumption. And the second --  
22 related to my oil consumption, but not to Alaskans oil  
23 consumption.

24 The second thing that I like about it is that  
25 it's somewhat unpredictable, the people can't really bank on

1 it because they use a five (5) year average, it doesn't move  
2 dramatically from year to year.

3 But it -- it's not a predictable amount.

4 MR. BOB PETERS: When you say, it doesn't move  
5 dramatically, it has ranged from eleven hundred dollars  
6 (\$1100) to nineteen hundred dollars (\$1900) over the  
7 timeframe you've presented?

8 MR. JAMES LAZAR: Yes.

9 MR. BOB PETERS: And that's the -- that's the  
10 Santa Clause or the gift at Christmas time that could be  
11 presented to -- to different consumers?

12 MR. JAMES LAZAR: Yes.

13 MR. BOB PETERS: Would you agree with me, sir,  
14 that the -- the export market credit, as you've talked about  
15 it, doesn't then become a change in the rates, but it's  
16 really just a presentation issue, in terms of how you get the  
17 money back to the consumer?

18 MR. JAMES LAZAR: Well, one (1) option that I  
19 proposed was simply to line item it on the bill and not  
20 change the way it's computed or credited, except to show it  
21 as a separate item.

22 Another was to make it an annual item on an  
23 expected value basis, and the third was to make it an annual  
24 item on an actual basis. And a fourth was to give it to the  
25 Government to spend on healthcare and schools and other

1 things, and completely separate it.

2                   So I've made several suggestions, and each of  
3 them moves away from it being built into the tariff rate and  
4 towards having customers pay tariffs that reflect ongoing  
5 costs of -- of power supply.

6                   MR. BOB PETERS: In your advice to this Board,  
7 sir, which is the preferred methodology in your view?

8                   MR. JAMES LAZAR: Well, at a minimum I would  
9 say that the -- an annual rebate, rather than a -- building  
10 it into the tariff, would be desirable. Going all the way to  
11 removing it from the electric tariff -- from any relationship  
12 to the electric bill would be, from an economist's  
13 perspective, an excellent step. From a public policy  
14 perspective, maybe more courageous than some would want to  
15 attempt.

16                   MR. BOB PETERS: And --

17                   MR. ROBERT MAYER: And with respect, the  
18 Minister of Finance would really like to talk to you.

19

20 CONTINUED BY MR. BOB PETERS:

21                   MR. BOB PETERS: In terms of a preference on  
22 an annual basis, would it be based on actual or forecast net  
23 export revenue?

24                   MR. JAMES LAZAR: Well, that would be the  
25 Board's decision, I prefer to have it related to actual.

1 Both because that stabilizes Manitoba Hydro finances, and  
2 makes it easier for them to get access to lower cost debt for  
3 the -- for the capital programs, but also because it makes  
4 them unpredictable for the customer, and therefore less  
5 likely to affect consumption.

6 MR. BOB PETERS: That actual amount in your  
7 recommendation, based on a one (1) year, two (2) year, three  
8 (3) year, how do you calculate that?

9 MR. JAMES LAZAR: Well, initially I think one  
10 would need to phase into it, because if you did it all at  
11 once in -- in a situation where you've got a drought, and  
12 I'll call it a zero credit, to avoid using a negative number,  
13 it would constitute rate shock. And so at a minimum, I would  
14 recommend phasing into it over a -- a -- maybe a three (3)  
15 year period.

16 But after a three (3) year phase down of the  
17 export credit, I think it could be done on a single year  
18 annual basis or a two (2) year basis.

19 MR. BOB PETERS: Thank you. Mr. Lazar, I'd  
20 like to just switch with you to these hookup fees you talked  
21 to My Colleagues about, and I understood your evidence to  
22 suggest that these hookup fees are supposed to encourage  
23 efficient building techniques?

24 MR. JAMES LAZAR: Yes.

25 MR. BOB PETERS: Does that suggest that

1 without these hookup fees, they would be inefficient building  
2 techniques?

3 MR. JAMES LAZAR: My understanding that the  
4 majority of homes built in Manitoba today, are built to less  
5 than the R-2000 standard, which I consider to be a pretty --  
6 pretty good efficiency standard.

7 So, I'll call them less efficient rather than  
8 inefficient, to avoid insulting builders who have come a long  
9 way from where they were twenty (20) years ago.

10 MR. BOB PETERS: Can you tell this Board what  
11 the cost is, in terms of new home construction, to install  
12 for space heat from different sources?

13 MR. JAMES LAZAR: The limited information that  
14 I pursued, indicated to me that the difference between  
15 conventional building techniques and Power Smart was about  
16 two thousand dollars (\$2,000), and the cost to go to R-2000  
17 was about another thousand dollars (\$1,000). But that was a  
18 very limited source of data, and that's what I relied on in  
19 preparing my recommendation.

20 MR. BOB PETERS: All right, and that  
21 underpinned your recommendation for a two thousand dollar  
22 (\$2,000) refund if you hit the Power Smart standard of  
23 construction, and going up to a three thousand dollar  
24 (\$3,000) rebate, if you went to the R-2000 standard?

25 MR. JAMES LAZAR: Yes.

1                   MR. BOB PETERS: Do you know what the time  
2 period is in terms of payback, for going to one (1) of these  
3 higher standard efficiency homes?

4                   MR. JAMES LAZAR: I've looked at that for  
5 eastern Montana, which is not quite as severe as -- as  
6 Manitoba, but pretty close. And the payback period is -- is  
7 more than a decade. But actually what's important from the  
8 homeowner's perspective is the time deposit of cash flow,  
9 that is at what point does the utility bill savings exceed  
10 the mortgage payment increment? And that happens  
11 immediately.

12                   So, from the very beginning the customer's  
13 monthly sum of their mortgage payment plus the utility bill  
14 is smaller. And payback period -- because a house is a long  
15 lived asset, I mean, we use seventy (70) years as the life of  
16 a house.

17                   So they have a ten (10) year payback period,  
18 and it's a lighting fixture in an office building that might  
19 be there for eight (8) years, that's not a very good  
20 investment. But in a house that's going to be there for  
21 seventy (70) years or a hundred (100) years, a ten (10) or  
22 twelve (12) payback period is still a pretty good thing.

23                   I would prefer to look at the -- the  
24 customer's impact from a cash flow perspective. And it's  
25 cash flow positive from the beginning.

1 MR. BOB PETERS: And you assume that the --  
2 the builder incurs additional costs to get the home more  
3 efficient, and passes that on to the homeowner, and the  
4 homeowner then gets the rebate under your recommendation?

5 MR. JAMES LAZAR: Under my recommendation, the  
6 connection charge and the rebate would go -- would be paid by  
7 the -- would be -- the connection charge would be paid by the  
8 builder, the rebate would go to the builder upon meeting the  
9 standards, if there were an owner/builder, obviously the  
10 owner/builder would pay the connection charge and receive the  
11 rebate.

12 MR. BOB PETERS: Mr. Lazar, in the -- in your  
13 evidence, you also talked about natural gas efficiency, and I  
14 don't want to go too far down that line, and incur the wrath  
15 of My Colleague, Ms. Ramage. But mindful of her comments  
16 previously, my interpretation of your evidence was you don't  
17 see Manitoba Hydro being very strongly motivated to do some  
18 -- some efficiency gains in the gas side of their business.

19 Have I stated your position, generally?

20 MR. JAMES LAZAR: Yes, and I think there's  
21 some cost effective opportunities there, it creates jobs for  
22 -- for efficiency contractors in Manitoba and reduces a few  
23 jobs for roustabouts in Alberta, I don't see that as a bad  
24 thing.

25 MR. BOB PETERS: But in -- in talking about

1 the natural gas efficiency, sir, would you agree with me that  
2 many of the programs that the utility offers now, benefit  
3 homeowners, whether they heat electrically or by gas?

4 MR. JAMES LAZAR: Well, let me refer to the  
5 company's rebuttal evidence at -- beginning at page 32. The  
6 company listed out some of the -- the energy efficiency  
7 programs that it's running. The -- the Energy Star appliance  
8 program is available to customers with natural gas. But the  
9 Power Smart New Home Program is focused -- is -- it is an  
10 electric program currently. The Power Smart Insulation  
11 Program is an electric program currently.

12 So, some of the programs are, and some of the  
13 big ones are not.

14 MR. BOB PETERS: And the essence of your 2  
15 percent system benefit charge recommendation, is to provide  
16 the utility with some ready available money to get into  
17 efficiency programs on the gas side?

18 MR. JAMES LAZAR: Yes.

19 MR. BOB PETERS: To be -- to be the incentive  
20 for the utility to do that?

21 MR. JAMES LAZAR: Well, to be the funding for  
22 the utility to do that. I think that the incentive for them  
23 to do that is simply their sense of what their customer's  
24 want and what's good for their service territory.

25 MR. BOB PETERS: But you also criticize them

1 in your evidence to say, that there's really little in it for  
2 them, because if they save a gigawatt hour of gas generated  
3 elect -- energy, that just benefits somebody outside of  
4 Manitoba?

5 MR. JAMES LAZAR: Well, no, the savings of gas  
6 benefits the customers in Manitoba, who don't have to pay for  
7 that gas.

8 MR. BOB PETERS: No, I appreciate that, and  
9 likewise, the same for electricity, whether it's gas or  
10 electric, correct?

11 MR. JAMES LAZAR: Well, it's -- it's  
12 different. Gas is an imported commodity that won't be  
13 imported if the demand isn't here. Electricity is an export  
14 commodity that will be exported if the demand isn't here.

15 So it's -- financially, the impact on Manitoba  
16 is about the same. But it's -- the relationship is  
17 different.

18 MR. BOB PETERS: There's -- there's fewer  
19 system savings on the gas side than there are on the electric  
20 side.

21 Would you agree with that?

22 MR. JAMES LAZAR: No, I think they're about  
23 the same. The cost of purchased gas is about two-thirds  
24 (2/3) of the cost of the delivered gas service. And the --  
25 the value of electricity, the market value of electricity is

1 about two-thirds (2/3) of the cost of delivered electricity.

2 I think the difference is that there's a gas  
3 flow-through mechanism for gas costs and not a similar  
4 mechanism for electricity. So, it -- it affects the utility  
5 financially a little bit differently.

6

7

(BRIEF PAUSE)

8

9 MR. BOB PETERS: Just to touch up on a couple  
10 of quick points.

11 When you and I talked about market rate  
12 implications in Manitoba, and you acknowledged that the  
13 market rate was not being paid by consumers.

14 Where do you peg the market rate for Manitoba  
15 electricity?

16 MR. JAMES LAZAR: I haven't looked at the  
17 Mid-West market for a couple of months. But it was in the  
18 four (4) to five (5) cent US range when I last looked a  
19 couple of months ago, in -- and given where gas prices are  
20 right now, around five dollars (\$5) US, I would expect to  
21 find it in that range if I were to look at it.

22 It was lower than that a year ago when gas  
23 prices were lower. But it generally tends to be driven by  
24 the cost of natural gas. It's the incremental generating  
25 fuel in the markets to which Manitoba Hydro exports.

1                   MR. BOB PETERS:    Mr. Chairman, I'd like to  
2 thank Mr. Lazar for his answers.  Those complete my  
3 questions.

4                   THE CHAIRPERSON:   Thank you, Mr. Peters.  Mr.  
5 Evans has a question.

6                   MR. LEN EVANS:    Yeah, yeah.  This is a -- a  
7 general question of clarification.  I think earlier on, Mr.  
8 Lazar, you said that, Manitoba -- just generally, Manitoba  
9 Hydro rates were too low.

10                   And I don't know whether I got all of your  
11 explanation, but I'm just wondering, too low compared to  
12 what?  Like, I wonder how do you come to that conclusion?  I  
13 think you -- I don't want to put words in your mouth, but I  
14 think that at some point earlier on today you said, that the  
15 Manitoba Hydro rates were too low.

16                   MR. JAMES LAZAR:    I said they weren't market  
17 rates.

18                   MR. ROBERT MAYER:   Well, below market rates.  
19 They're -- if, instead of the people of Manitoba having all  
20 these wonderful dams that provide a reliable source of  
21 economical and sustainable power, you had to go out into the  
22 market place to buy the electricity, as you do with natural  
23 gas, the costs would be significantly higher.

24                   MR. JAMES LAZAR:    As -- as we've found out  
25 over the last drought.

1                   MR. ROBERT MAYER:    When you did go off and  
2 buy some power, yes.

3                   MR. LEN EVANS:     So -- so are you saying for  
4 -- are you saying, just to elaborate, are you saying that --  
5 you're making reference to rates in the United States or  
6 anywhere else outside of Manitoba, that we're much lower in  
7 market rates outside of the province.

8                   MR. JAMES LAZAR:     The costs on the Manitoba  
9 Hydro system are below the market value of the power in the  
10 area where that system is -- is located, what it would cost  
11 to replace that power were it not available from the dams.  
12 If Scotty beamed up all your dams tomorrow, your rates would  
13 go up a whole bunch.

14                   And, you know, thankfully you -- you have  
15 people of the generations before us -- to thank for -- for  
16 making that investment and -- and it's a good thing for  
17 Manitoba. But it's now sufficiently different than market  
18 that it's distorting consumption patterns and you may want  
19 to, as the company has said, take those economic rents and  
20 figure out a different way to distribute them.

21                   MR. ROBERT MAYER:    For your information, Mr.  
22 Lazar, Mr. Evans was part of one (1) of those governments  
23 that built --

24                   MR. JAMES LAZAR:     I -- I

25                   MR. LEN EVANS:     Yeah.

1 MR. JAMES LAZAR: I didn't want to accuse him  
2 of being older than me but -- if I can do it with that level  
3 of respect maybe I'll get away with it.

4 MR. LEN EVANS: Just as -- just as a  
5 footnote, we were involved in one (1) big project called  
6 Limestone and the opposition of the day referred to it as  
7 Lemonstone. I don't know whether they still use that term  
8 today.

9 MR. ROBERT MAYER: I asked Mr. Edwards that  
10 when he was here the last set of hearings, he didn't answer.

11 MR. JAMES LAZAR: Well, Limestone is  
12 producing power at about twenty-two dollars (\$22) a megawatt  
13 hour and then if you add in the -- the -- roughly ten dollar  
14 (\$10) cost of the -- or megawatt hour cost of the DC  
15 transmission, it's at thirty-two (32). A few years ago that  
16 was about market. Today it's very attractive resource.

17 And I don't think gas prices are going to go  
18 down very much, very soon. I expect it will continue to be  
19 an attractive resource henceforth.

20 THE CHAIRPERSON: Thank you very much, Mr.  
21 Lazar. We appreciate your testimony. Professor Miller ...?  
22 Would you like to ask any further questions?

23 DR. PETER MILLER: Yes, I have one (1)  
24 question on re-direct.  
25

1 RE-DIRECT EXAMINATION BY DR. PETER MILLER:

2 DR. PETER MILLER: Mr. Lazar, what effect  
3 would the three (3) year rolling baseline have on energy  
4 efficiency.

5 MR. JAMES LAZAR: I think it would have a  
6 very beneficial effect because customers that invest in  
7 efficiency, whether it's at an existing facility or in  
8 deciding to expand a facility or build a new facility, would  
9 see a higher, closer to marginal cost price of electricity  
10 for at least the first few years.

11 We found in looking at commercial and  
12 industrial efficiency investments, those customers only tend  
13 to look one (1) to three (3) years ahead in deciding how much  
14 to invest in efficiency. And having some kind of an inverted  
15 rate for -- for the commercial and industrial sector, would  
16 provide a stronger incentive for them to invest in efficiency  
17 measures that are cost effective.

18 DR. PETER MILLER: Thank you, that's all.

19 THE CHAIRPERSON: Okay, thank you everyone.  
20 We'll stand down for the day and Mr. Feldschmid, you're up  
21 first tomorrow.

22

23 --- Upon Adjourning at 3:55 p.m.

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Certified Correct,

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Carol Wilkinson, Ms.

