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MANITOBA PUBLIC UTILITIES BOARD

Re: 2008/'09 GENERAL RATE APPLICATION  
MANITOBA HYDRO

Before Board Panel:

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

HELD AT:

Public Utilities Board  
400, 330 Portage Avenue  
Winnipeg, Manitoba  
May 1st, 2008  
Pages 3312 to 3548

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1 --- Upon commencing at 9:01 a.m.

2

3 THE CHAIRPERSON: Okay, welcome everyone.  
4 Another fine day and we're enclosed once more.

5 Ms. McCaffrey, do you want to introduce  
6 the three (3) exhibits that we have in front of us. I'm  
7 sorry, from Manitoba Hydro which is a response to  
8 Manitoba Hydro Undertaking Number 78 with respect to  
9 Power Smart Savings so we'll take that one and is Exhibit  
10 Number 91 for Manitoba Hydro.

11

12 --- EXHIBIT NO. MH-91: Response to Undertaking 78

13

14 THE CHAIRPERSON: Ms. McCaffrey, you've  
15 got two (2) then.

16 MS. TAMARA MCCAFFREY: Yes, we have two  
17 (2) more. The first one is illustrative examples of  
18 potential reserve fund operation on Hydro's IFF.

19 THE CHAIRPERSON: Okay.

20 MS. TAMARA MCCAFFREY: And we'll have --  
21 I believe we're at Exhibit 14.

22 THE CHAIRPERSON: Yes.

23

24 --- EXHIBIT NO. MIPUG-14: Illustrative examples of  
25 potential reserve fund

1 operation on Hydro's IFF

2

3 MS. TAMARA MCCAFFREY: And then the  
4 second exhibit we have -- just give me a moment and I'll  
5 read the title in: Marginal Costs EPMC Method by  
6 Function.

7 And this is essentially a document that  
8 flows from Exhibit Manitoba Hydro's Number 68. And the  
9 date is taken from that and the PCOSS '08 so it's not new  
10 -- not new numbers but presented in perhaps a different  
11 way. And that would be Exhibit 15.

12 THE CHAIRPERSON: Very good, thank you.

13

14 --- EXHIBIT NO. MIPUG-15: Document entitled, "Marginal  
15 Costs EPMC Method by  
16 Function"

17

18 MIPUG PANEL RESUMED:

19 PATRICK BOWMAN, Resumed

20 ANDREW MCLAREN, Resumed

21

22 CONTINUED EXAMINATION-IN-CHIEF BY MS. TAMARA MCCAFFREY:

23 MS. TAMARA MCCAFFREY: Mr. Bowman, why  
24 don't we start with Exhibit 14. Before we move into cost  
25 of service, yesterday you were explaining to the Board

1 your ideas in terms of developing a potential reserve  
2 fund for the purpose of guarding against risks.

3 I'm going to give you an opportunity now  
4 to tell us about this exhibit and take us through what  
5 you did here and what this table is showing us.

6 MR. PATRICK BOWMAN: Thank you, good  
7 morning, Mr. Chair, members of the panel.

8 Yesterday, in walking through the revenue  
9 requirement section of our evidence, Section 3, I  
10 realized there was a few things that I may have made  
11 slightly less than -- than clear and I -- I thought it  
12 might help to put a few numbers in front of people that  
13 would explain something that I was trying -- trying to go  
14 through. It's nothing -- nothing different than is in  
15 the -- the response to PUB-6 as a -- as a framework as a  
16 concept. But it's just to put some numbers on it so that  
17 it can be understood a little better what we were -- what  
18 I was trying to go through in the direct.

19 In -- in short, what we were dealing with  
20 in the revenue requirement section, focussed on the types  
21 of reserve concepts that this Board has expressed an  
22 interest in at least on two (2) previous occasions, one  
23 in the Status Update Hearing and one in the 2004 GRA, and  
24 has issued some directives on and -- and in our view  
25 hasn't received much in the way of responses. We wanted



1 to try to show a bit of a different position that there  
2 is a -- there is merit to the concept and there's a need  
3 to think about it more seriously perhaps than -- than has  
4 been provided in the filings to the Board previously.

5           So just to put some -- some numbers around  
6 the concept so that people can understand what it was I  
7 was trying to say perhaps a little better -- and I -- I  
8 apologize if I was a little bit less than clear yesterday  
9 -- this -- the table that we've done, the top part of it  
10 focusses on the things I was talking about yesterday and  
11 the bottom will focus on a bit of the things that I'm  
12 going to move to today.

13           But in the top part, we were -- we were  
14 suggesting that the concept of setting up a reserve  
15 doesn't necessarily link to -- to any higher rates to  
16 ratepayers or  
17 -- or first call on export earnings or any of that sort  
18 of thing. That'll be in the bottom of the table and  
19 we'll talk about that in a moment.

20           But all it's -- all it's saying is that if  
21 in the event you're dealing with IFF '07-1 brought before  
22 the Board, it's presented in the first column there, IFF  
23 '07-1 per Hydro in the form in -- of Coalition Round 1  
24 Question 1(A), which sets out the exact same numbers  
25 you'll find in the IFF. It just puts them in a different

1 order. And it calculates a row called at line 7, "Extra-  
2 Provincial Revenues Net."

3 Now in -- in the notes you'll see -- and  
4 this is the same note that's in PUB-6 -- you will see  
5 that -- that what this really is -- is the sum of all of  
6 the items in the IFF that are materially affected by  
7 water flows. It's not necessarily a -- a net export  
8 revenue the way you'd see it in a cost of service study.  
9 But it's -- it's the term that -- that Hydro was using,  
10 Extra-Provincial Revenues Net of Fuel Purchase Power and  
11 Water Rentals, but it's effectively the sum of those rows  
12 that are -- that are very materially affected by water  
13 flows and -- and markets outside the province.

14 And in the IFF the forecast for that  
15 grouping of costs is -- is a net of 213 million. As a  
16 result of that, combined with the general consumer  
17 revenues at line 1 of 1086, at existing rates, plus the  
18 31 million at line 2 of additional rates, which is the  
19 2.9 percent rate increase before the Board, and  
20 considering the other revenue at line 8, and the expenses  
21 at line 9, Hydro would be forecasting a net income of 156  
22 million. And that's the same number that's in the -- in  
23 the IFF '07 and interest coverage of one point two nine  
24 (1.29).

25 What we're seeing in terms of a -- a

1 overall mechanism for initiating this is, one could  
2 conceive of doing what's in the second column instead  
3 which have -- is have two (2) matters addressed in this  
4 -- in -- in a Board decision -- or in this Board's  
5 decision -- which would be both to give -- and in this  
6 case we haven't varied any rate increases or anything of  
7 that nature -- but to give the same 31 million that  
8 Hydro's requesting, but to have that as a transfer to a  
9 -- a new form of reserve, such that the extra-provincial  
10 revenues line and the extra-provincial revenues net comes  
11 out a -- a maximum of one eighty-two (182). And that  
12 would be the -- the number with that \$31 million  
13 adjustment.

14                   The -- the net income of Hydro would --  
15 would be reduced but the overall position in terms of  
16 dollars being made available for the -- the same purposes  
17 is the same. We haven't changed anything, in terms of  
18 rates or dollars being put aside.

19                   Now to show how this would work in  
20 practice we -- we've put three (3) examples -- sample  
21 years there in the box next to that. And we showed what  
22 would happen now if -- if one goes forward with that type  
23 of -- of situation in a good water year, a -- a year that  
24 has some minor adverse impact, and a -- a moderate  
25 drought. And the idea is that in a good water year that

1 extra-provincial revenues net is maximized at 182  
2 million.

3                   So if you have higher export revenues, and  
4 -- and lower fuel costs, and higher water rentals they  
5 would serve to offset each other, and as a result the  
6 transfer instead of 31 would be become in that case 147  
7 million, such that the 182 was held constant. Hydro's  
8 net income because their O&M costs in the controllable  
9 component of their operations are held the same, comes  
10 out the same, 125 million.

11                   If you had, and I'll just say that good  
12 water year that we -- we forecast was based on 2007/'08  
13 values in the -- the IFF, so it was meant to represent a  
14 reason -- reasonable sample of a good water year.

15                   If you had a minor adverse year, which is  
16 the next column, and your export revenues were down by 20  
17 million, and fuel was up by five (5), and water rentals  
18 were down by six (6) which is a the -- the type of effect  
19 that one might see in a minor adverse year, you could see  
20 that you end up with -- with somewhat of a less of a --  
21 of a transfer, but Hydro's net income isn't impacted;  
22 that the -- the stabilizing effect of -- of a reserve  
23 would serve to stabilize the -- the bottom line and it's  
24 again because controllable costs are held at the time  
25 same level, at -- at row 9.

1                   And then finally the last example is if  
2 you did indeed have a -- a moderate drought, you --  
3 because you started with nothing in the reserve and you  
4 don't -- we would -- we wouldn't imagine it's something  
5 that would go -- be permitted to go into a negative  
6 position, you'd have the exact same outcome as you would  
7 of if the reserve never existed in the first year,  
8 because you haven't got any funds to deal with that  
9 stabilization.

10                   If there were a balance in the reserves  
11 you could actually have a draw-down, a transfer from the  
12 regulated reserves, showing up at line 4, such that all  
13 efforts are made to retain line 7, a 182 million. So  
14 that even if things turned somewhat sour, and there were  
15 balance in the reserve, due to those factors those about  
16 -- par factors largely beyond Hydro's control, you would  
17 end up with -- with the same net income.

18                   Now that's -- that's the top of the page.  
19 We were also suggesting yesterday -- and we'll talk about  
20 this a bit more today -- that a mechanism of this type  
21 would also permit one to do something more along the  
22 lines of what was commented on in the Cost of Service  
23 Hearing.

24                   And perhaps I'll leave that bottom part of  
25 the table until we -- we move into the cost of service

1 section and we can talk about how that -- how that plays  
2 out to it. But I just wanted to try to help put some  
3 numbers around because I wasn't sure I was -- I was  
4 perfectly clear about -- about the type of opportunities  
5 that a concept like this might provide and -- and -- were  
6 one to do all of the necessary homework to put something  
7 in place.

8 MS. TAMARA MCCAFFREY: And again, the  
9 concept here is that it would be essentially revenue  
10 neutral from a -- from the ratepayer's point of view.

11 MR. PATRICK BOWMAN: Yeah, that's right.  
12 The -- the concept would be revenue neutral to  
13 ratepayers. We've just sort of suggested that the  
14 simplest step is that it's revenue neutral to ratepayers  
15 in -- in any given year -- in -- in the test year.

16 When we move to the bottom of the page,  
17 we'll talk about a concept that may be revenue neutral  
18 over the long term, but it's not necessarily revenue  
19 neutral in any given year because it's -- it's doing a  
20 different balance of reserves and rate levels.

21 MS. TAMARA MCCAFFREY: And I note, Mr.  
22 Bowman, just because it was mentioned in Manitoba Hydro's  
23 rebuttal evidence, that such a reserve fund would have to  
24 be funded by debt, and -- and the type of concept that  
25 you're describing here doesn't do that.

1 MR. PATRICK BOWMAN: Well, it doesn't do  
2 that, that's correct. One could imagine, I don't know,  
3 ten (10) or twelve (12) different ways you could think  
4 about doing this and perhaps some of those leave you to  
5 being funded by debt, but it's a type of -- of creative  
6 thinking in terms of imagining those different concepts  
7 that we haven't really seen to-date here before the  
8 Board.

9 MS. TAMARA MCCAFFREY: Thank you, sir.  
10 Now moving onto Section 4 of your evidence, that begins  
11 at page 26 for those that are following along, that's the  
12 Cost of Service Study.

13 This is the first time we've had the  
14 opportunity to review the new Board approved Cost of  
15 Service Study; what is it telling us in this Hearing?

16 MR. PATRICK BOWMAN: Well, our review of  
17 the Cost of Service Study is a little bit lighter than --  
18 than some of the other areas for a good reason; is that  
19 we've just spent a lot of time and effort in the last two  
20 (2) years to -- to deal with all of the different cost of  
21 service methodology questions.

22 We don't comment to any great degree here  
23 about -- about methodology concerns that remain for us  
24 with the Cost of Service Study, given that -- that it's  
25 -- it's not that different than representing the -- the

1 discussions that occurred last time and the Board has  
2 made its determination.

3           Our review of the Cost of Service Study  
4 focussed on two (2) things. First, did Hydro implement  
5 the Board's directives in our view the way they were  
6 intended to be implemented? And second, now that we've  
7 got a Cost of Service Study that's been confirmed by this  
8 Board, what does it tell us? That's -- and -- and our --  
9 our evidence focuses on those two (2) areas.

10           MS. TAMARA MCCAFFREY: I'm going to give  
11 you an opportunity to take us through them now.

12           MR. PATRICK BOWMAN: Well, the -- the key  
13 summary we did to understand a bit more of the detail is  
14 at page 28, which is a landscape table called "Table  
15 4.1."

16           MS. TAMARA MCCAFFREY: That's the  
17 levelized RCC ratios per kilowatt hour from the PCOSS  
18 '08, and you add with it -- with a DSM correction.

19           MR. PATRICK BOWMAN: Yes. I note the  
20 table heading comments on RCC ratios. This is the data  
21 that feeds into the RCC ratios. It doesn't actually  
22 present the RCC ratios here but it's -- it's the same  
23 underlying data.

24           And I'll -- I'll sort of foreshadow the  
25 fact that when we get to the more detailed aspects of the



1 Cost of Service Study we found one (1) aspect. We found  
2 that Hydro had correctly applied this Board's order in  
3 respect of -- of all matters but one (1), and there was  
4 one (1) that we believe the way they have applied it has  
5 led to a double counting, and it -- it relates to DSM.

6           And so we've -- this table makes the  
7 correction which is again out of Hydro's numbers filed in  
8 an IR but it -- but it does have that correction built  
9 in. You could do the same table for the DSM -- or the  
10 PCOSS without the DSM but we elected to work with the one  
11 that we thought reflected what it was the Board was  
12 really looking for Hydro to do.

13           So the table has small numbers in italics  
14 which are the millions of dollars to a class, and larger  
15 numbers, not in italics, which are the cents per kilowatt  
16 hour, so that you can track it by the numbers that --  
17 that make sense to you.

18           The -- the class -- we elected to show a  
19 group of classes without trying to show necessarily every  
20 one. We do have a table that does it with every one, but  
21 I -- I didn't bring my magnifying glass. But we can  
22 provide that.

23           What we did, going through it, was to look  
24 at -- effectively what is on the cost side, in the top;  
25 the bulk power costs assigned to each class; the DSM

1 adjustment that occurs as a result; the net bulk power  
2 costs assigned to each class; the subtransmission costs  
3 at line 4; distribution at line 5, to come to the total  
4 costs per kilowatt hour assigned to each class. And this  
5 was a way to check at a high level, whether it was  
6 seeming to make sense to us what the Cost of Service  
7 Study was saying. And -- and I'll say briefly that it,  
8 at this level, it did make sense to us.

9           The key things we were looking for was  
10 that one would see a -- a big distinction among the  
11 distribution classes -- distribution costs at row 5  
12 because different classes use the distribution system to  
13 different extents. And so you'll see when the costs are  
14 allocated -- for example, exports receive no distribution  
15 cost allocation -- something like general service medium  
16 that served at a higher voltage and, as a result, uses  
17 less of the distribution system is -- is ending up with  
18 about one point three five (1.35) cents per kilowatt hour  
19 assigned to it, and something like residential which uses  
20 a lot of the distribution system is up at about three and  
21 a half (3 1/2) cents.

22           So, of their costs, about half of them are  
23 distribution related. Subtransmission has the same --  
24 the same concept and again, it's -- it's following what  
25 one would expect.

1                   When we move up to net bulk power costs at  
2 line 3, there's a different variation and it generally  
3 follows what we would expect. The main reason is because  
4 these are cents per kilowatt hour at the meter and so all  
5 of these classes are buying kilowatt hours from the same  
6 facilities, but if you're a general service small, for  
7 example, you've got to pay for more losses between you  
8 and the plant than the -- than the general services large  
9 does who served at a high voltage. So your costs at the  
10 meter is somewhat higher and it also reflects the  
11 characteristics of the class.

12                   Exports is -- is a number that didn't --  
13 didn't surprise us. It seemed to make sense, given that  
14 exports -- while four point eight three (4.83) assigned  
15 to them -- plus then they're given this DSM cost. But  
16 four point eight three (4.83) at a cost level is higher  
17 than the other classes and primarily that's because  
18 export is given some of the higher cost generation, like  
19 -- like thermal and imports, which tracks when you think  
20 about -- about the overall cost of the system.

21                   So, in terms of the cost part of it, it  
22 was -- it was a way of testing at a high level that it  
23 made sense and it -- it did crosscheck.

24                   When we move down to the rates component,  
25 we can look at the revenues at line 7 but what was

1 important to add in is that at line 8, there's a uniform  
2 rate credit which is an assistance to general service  
3 small and residential. And that's at line 8. And that's  
4 -- that's added in as a revenue here. It's -- it's a  
5 component of their rates. It's something being paid for  
6 by exports and the exports shows the 17.2 million there.

7           It also shows then total PCOSS revenue at  
8 line 10. We didn't put the units in for the exports  
9 because lines 8 and 9 do not necessarily link  
10 specifically to units, but you end up with a -- with the  
11 PCOSS revenue being at the level shown. And -- and as a  
12 result you can compare costs to -- to revenues and see at  
13 line 11 that before anyone does any export reallocation,  
14 each of the domestic classes is paying less than it costs  
15 to serve them, which is exactly the result that we -- we  
16 expect and that we hear about, the degree to which each  
17 is paying less than it costs to serve them varies but --  
18 but each is paying less than it costs to serve them  
19 before we move on and do an export reallocation.

20           Line 12 shows the export reallocation.  
21 Sorry -- just one last comment on line 11. When you  
22 actually look at the -- all of the classes -- I would say  
23 that -- that same relationship is true for all of the  
24 domestic classes except for the lighting class. The  
25 lighting class actually, even before it gets any exports,



1 the day, really getting point eight six (.86) cents out  
2 of the export system for -- towards their rates. They're  
3 only really getting point five seven (.57) because their  
4 rates aren't at the -- the level that the Cost of Service  
5 Study states.

6 So if you want to sort of track the  
7 benefit of exports as it exists today, it's more the line  
8 -- numbers that are shown at row 11 than at -- at row 12.

9 MS. TAMARA MCCAFFREY: And essentially  
10 you've gone through your -- your conclusions from table  
11 4.1 at pages 29 and 30 of your evidence, and you've taken  
12 us through the table. You have a table here at page 31  
13 as well, table 4.2.

14 What is this table telling us, Mr. Bowman?

15 MR. PATRICK BOWMAN: Well, this is just a  
16 table in the more classic format.

17 THE CHAIRPERSON: Hold on a minute, if  
18 you don't mind.

19 MR. PATRICK BOWMAN: Certainly.

20 THE CHAIRPERSON: Let's get the table.  
21 There's enough numbers flying around as it is, we better  
22 get it. Okay, we're fine again.

23 MR. PATRICK BOWMAN: That's fair.

24 THE CHAIRPERSON: Okay, we're fine again.

25 MR. PATRICK BOWMAN: So if you're

1 following in the document, it's page 31, and it's called  
2 table 4.2. And this is just a summary of the results of  
3 the Cost of Service Study for all the classes. It -- and  
4 it puts the -- the RCC ratios before export credits. We  
5 -- we weren't going beyond that as yet. But the RCC  
6 before exports credits on the far right hand side by  
7 class. And it shows the surplus or -- or shortfall  
8 before export credit in millions of dollars in the second  
9 last column.

10                   So when we say exports are contributing,  
11 if you remember the number from the previous table, 137.5  
12 million above their costs, that is the number at the  
13 bottom of the surplus shortfall before the credits come  
14 out; that -- you can see where that 137.5 million arises.  
15 These are -- this is where the export credit for revenues  
16 from exports more than the cost of service measures to  
17 serve those as a cost to serve those exports arise in  
18 terms of each of the customer classes.

19                   We've typically gone forward from here and  
20 talked about it as 130 million, not one thirty-seven  
21 (137) because the -- the diesel six seven three-o (6730)  
22 is -- is set by a series of rules and -- and such that  
23 it's not a -- a number that we -- we dwell on. It -- we  
24 understand it's a -- it's a residual from the rest of the  
25 calculations. So the -- you'll see me quoting 130

1 million as me move forward, or one thirty point one  
2 (130.1), and that's the general consumers on the -- on  
3 the integrated system.

4

5 CONTINUED BY MS. TAMARA MCCAFFREY:

6 MS. TAMARA MCCAFFREY: Mr. Bowman, on  
7 page 32 of your evidence, in Section 4.2, you talk about  
8 an error that was made and it's been referred to already  
9 in implementing one one seven-o-six (11706) with respect  
10 to the DSM costs. I'll give you an opportunity now to  
11 explain that -- that error.

12 What is the error -- error and why -- why  
13 do you think your approach makes sense?

14 MR. PATRICK BOWMAN: Well, Order 11706  
15 reviewed a lot of matters related to the study. And  
16 among other things it contained a directive that a group  
17 of costs that, for lack of a better term I'll call, you  
18 know, policy related decisions, were to be charged  
19 against net export revenue. And those are as noted at  
20 the top of page 32, the uniform rate adjustment, which  
21 we've seen as a credit against other classes' revenue.  
22 The allocation required by Bill 11, which I won't pretend  
23 to understand, but is -- is contained in the Order, and  
24 the DSM costs, the costs to operate the demand-side  
25 management program.



1           The uniform rate adjust in Bill 11, to the  
2 extent it arises -- I don't believe I've ever seen a  
3 dollar value for it -- but are -- are done -- the dollars  
4 are allocated against the export dollars as a first --  
5 first call on those funds, if you like. DSM costs are  
6 treated that same way; the dollars come off the exports.

7           But what Hydro's done is also given the  
8 exports -- as a result of having paid for DSM -- they've  
9 given them a first call on the energy freed up on the DSM  
10 program.

11           So that when you look at exports in the  
12 cost of service, and I can -- this is sort of shown at  
13 the next page, page 33, exports in the cost of service  
14 start at 8.462 terrawatt hours, or 8462 gigawatt hours,  
15 row 11 there. But three nine three eight (3938) of those  
16 gigawatt hours are served by other sources in Hydro's  
17 cost of service paid for otherwise.

18           Some of that is imports, which it -- it is  
19 required to purchase first. Some of that is thermal,  
20 which similarly it's required to purchase first, pursuant  
21 to this Board's directives. And some of that is the  
22 demand-side management energy that Hydro credits to it.

23           As a result when you get to the residual,  
24 the common -- common pool energy, if you like, exports of  
25 their eight four six two (8462) are only getting four

1 five two four (4524) served by the common pool. And  
2 that's again working our way across row 11.

3 The problem that you run into is that, in  
4 a sense, DSM energy is a little bit different than other  
5 forms of energy. You can't necessarily quite identify  
6 that kilowatt hour and where it's coming from.

7 And it's not like when you do a -- a  
8 balanced picture of the system in column A, that you have  
9 a place called, Here's where all my DSM energy is coming  
10 from, or Here's where I'm dispatching my DSM.

11 You could, you could create that row, but  
12 in order to create that row what you'd have to do is go  
13 back to those customers who you say, like that house that  
14 you say is using a 1,000 kilowatt hours, and then say,  
15 No, no. We're going to say it's using 1,100 kilowatt  
16 hours because if it hadn't done the DSM, it would be  
17 using eleven hundred (1,100).

18 You have to gross back up the people who  
19 did the DSM in order to be able to assign the DSM  
20 somewhere else. Hydro didn't do that so at the end of  
21 the day the DSM energy is effectively allocated twice in  
22 the Cost of Service Study; once to the customer who  
23 actually undertook the DSM, and -- because their loads  
24 were lower than they would have been, and once to the  
25 exports who, under Hydro's approach is effectively

1 purchasing the rights to that DSM.

2                   And this is the issue we call the error in  
3 the Cost of Service Study. Now in simple terms you can  
4 resolve this two (2) ways. You can either give the  
5 exports the DSM energy which means gross back up everyone  
6 else's load, or you can leave the DSM energy with the  
7 customer who undertook the DSM project and not give  
8 exports that -- that -- those kilowatt hours.

9                   In other words, have exports pay for the  
10 DSM program as a policy decision, but not necessarily  
11 purchase the rights to or annex the benefits of the DSM  
12 program from the person who undertook the problem, or the  
13 class that undertook the program.

14                   For both technical reasons -- the  
15 difficulty of implementation, and policy reasons, as we  
16 understand the Board's order intent, we have assumed that  
17 the proper resolution of this is to leave the DSM energy  
18 credits with the customer who undertook the DSM. So that  
19 we're actually charging customer classes for the energy  
20 they're using, not the energy they would have used if  
21 they hadn't undertaken DSM.

22                   Seems to be that the -- the point of  
23 undertaking DSM, so -- so we've resolved it in -- in the  
24 earlier versions by doing exactly that, based on a Cost  
25 of Service study Hydro did the numbers for that we filed

1 on -- on our request to resolve the issue that way.

2 MS. TAMARA MCCAFFREY: Now, Mr. Bowman,  
3 just let me stop you there. Manitoba Hydro does argue,  
4 though, in their rebuttal evidence on this subject around  
5 page 32/33 that the approach that you are recommending  
6 benefits the industrial class because it assigns further  
7 cost to the other classes and away from the industrial  
8 costs.

9 Is this appropriate?

10 MR. PATRICK BOWMAN: Well, to start with,  
11 it's not correct. This -- the approach that we're  
12 recommending benefits every class who's undertaken DSM.  
13 So if the residential class is undertaking DSM and if the  
14 industrials are undertaking it, they maintain the  
15 benefits.

16 And in short, the degree of benefits each  
17 class receives we -- we calculate in response to a PUB  
18 Informational Request PUB-8, but without having to turn  
19 there, I'll just say the -- the biggest beneficiary of  
20 this approach is the residential class, who is further  
21 ahead in their costs by \$9.1 million.

22 The second biggest is -- is the industrial  
23 at 6.5 million, and then the others are shown there, but  
24 in sum total, general consumers have lower costs by \$27.8  
25 million as a result of this change.

1                   That's the -- the impact of leaving DSM  
2 energy with the people who undertook the program.  
3 Exports are assigned some additional amount of that cost  
4 and some portions of it comes out of the extent to which  
5 exports are -- are -- are ultimately allocated back out  
6 of the net pool. But when you actually track the cost,  
7 it benefits those classes by that -- that degree, those  
8 numbers.

9                   MS. TAMARA MCCAFFREY: Well thank you for  
10 explaining that for us, sir. Moving on to Section 4.3 of  
11 your evidence which starts at page 34, and -- and here  
12 we're now getting into rates for general consumers.

13                   Can you take us through your evidence with  
14 respect to this?

15                   MR. PATRICK BOWMAN: Yes. Having --  
16 having been through the -- the one (1) item in the Cost  
17 of Service Study, the DSM correction and the -- the  
18 overall high level view of the Cost of Service Study, we  
19 then set out to try to assess whether the rates that  
20 Hydro's proposing in this rate application are -- were  
21 fair and reasonable given the -- the evidence that's  
22 available.

23                   And in doing that assessment, the Board  
24 had suggested that it intended to look at RCC ratios  
25 after allocation of export credits which are the -- the

1 final results of the Cost of Service Study if you like,  
2 the RCC ratios before allocation of the export credit  
3 which are the ones that I've -- I've just gone through  
4 and the marginal cost information revenue cost coverage  
5 ratios that we'll -- we'll speak about in a moment.

6 But -- so we organized Section 4.3  
7 primarily to deal with the cost of service versions. We  
8 don't have the marginal in here at this point.

9 But when one looks at -- we started  
10 looking at the post in export revenue allocation, this is  
11 at page 35, meaning the final results of the Cost of  
12 Service Study, and we summarized in a table, by the time  
13 you get to page 37, the relative rate changes that were  
14 reported by Hydro required to get customer classes to  
15 each of unity in the first column or to get to the zone  
16 of reasonableness in the second column. This is at page  
17 37.

18 MS. TAMARA MCCAFFREY: Table 4.4?

19 MR. PATRICK BOWMAN: Correct. Now this  
20 is just information that comes out of two (2) different  
21 interrogatories or two (2) different sub parts of -- of  
22 MIPUG/MH-30.

23 And the first column then was a request to  
24 say, assuming that Hydro needs a 2.9 percent overall rate  
25 increase every year for the next five (5) years, just as

1 they say in their IFF, and we were -- but we were to do  
2 differential rate increases to each class that got them  
3 to unity, what would be the rate increases to each class  
4 overall. And that's the numbers that were produced.

5           In the second column over, the question  
6 was, assume we don't have to get to unity, we just have  
7 to get everybody within ninety-five (95) to one-o-five  
8 (105), to within the zone of reasonableness. And that  
9 shows you in the second class -- in the second column  
10 where the differential rate increases would arise.

11           Overall, the main thing we noted is that  
12 particularly if you look to the second column, even if  
13 you're just trying to get to the zone of reasonableness,  
14 there are some classes, particularly general service  
15 large, zero to thirty (30), which are below today to a  
16 degree that you would need to look at higher than average  
17 rate increases. And there are some general service small  
18 demand GSL greater than 100 kV and area and roadway  
19 lighting that you would need lower than average rate  
20 increases, if you're -- if you're going to get to the  
21 zone of reasonableness within five (5) years.

22           If you stuck with Manitoba Hydro's  
23 proposal, the forecast is -- you would not get to the  
24 zone of reasonableness within five (5) years.

25           MS. TAMARA MCCAFFREY: And this is

1 looking -- this is looking at the rate increases, but  
2 we're taking into account the export allocation here.  
3 This is post exports.

4 MR. PATRICK BOWMAN: This is post-export  
5 allocation, the final number that you see out of the Cost  
6 of Service Study. So it includes not only exports  
7 receiving a share of their costs, but the net exports,  
8 all 130 million, being allocated back to customers based  
9 on the rules this Board set on -- on total allocated cost  
10 of Hydro system.

11 MS. TAMARA MCCAFFREY: And then towards  
12 the bottom of the page, Section 4.3.2, you're looking at  
13 cost of service results pre-net export revenue  
14 allocations.

15 MR. PATRICK BOWMAN: That's correct.

16 MS. TAMARA MCCAFFREY: So what is that  
17 telling us here?

18 MR. PATRICK BOWMAN: Well we got to the  
19 end of Section 4.3.1 and said that's the classic way that  
20 one would use a cost of service study. Those are types  
21 of -- types of rate changes one might -- might see in  
22 other jurisdictions when we are applying a cost of  
23 service study.

24 And -- and we noted that each of these --  
25 any of these options, be it the first column or the



1 second column, would, from our review of it, meet Hydro's  
2 own rate design criteria. But we wanted to go on and  
3 make sure we were dealing with the types of things this  
4 Board said it wanted to look at, which was not just the  
5 cost of service results post-expert allocation, but also  
6 pre-ex -- pre- allocation of those net export revenues.  
7 And that's what Section 4.3.2 does.

8                   It -- it repeats the table that we saw  
9 earlier at four point two (4.2), which was the summary of  
10 RCCs pre-export revenue allocation, and it was focussed  
11 on saying -- when you move to that table, there are today  
12 -- when you look before export credits, there are three  
13 (3) classes who are within the zone of reasonableness:  
14 the area -- the street -- area and roadway lighting  
15 class, the general service large greater than 100 kV  
16 class and the general service small demand class.

17                   The others are outside of the zone of  
18 reasonableness before you get a net export credit to  
19 varying degrees. The relationships generally hold  
20 though. The customer class farthest outside is the  
21 general service large zero to 30 kV, which is the same  
22 class we saw at -- needing -- a higher than average rate  
23 increase in the previous table. So that was the result  
24 pre-net export revenue allocation.

25

1 (BRIEF PAUSE)

2

3 MS. TAMARA MCCAFFREY: Just let's go to  
4 the issue on -- Manitoba Hydro's raised in the rebuttal  
5 evidence. On -- on page 35 they provided a table, a  
6 Manitoba Hydro 8, and that looks at class revenue cost  
7 coverage ratios with no allocation of export revenues.

8 Sir, do you have any comments with respect  
9 to what this table is showing us?

10 MR. PATRICK BOWMAN: Well, it's the table  
11 that Hydro prepared to attempt to do the same thing as  
12 we're talking about here, which is to look at various RCC  
13 ratios. It -- it included within it the marginal cost --  
14 cost of service ratios coming out of Appendix 11.2. But,  
15 of course, it was prepared before 11.2 saw the material  
16 correction that occurred in -- in -- that we saw earlier  
17 in this Hearing, in Exhibit --

18 MS. TAMARA MCCAFFREY: Sixty-eight (68).

19 MR. PATRICK BOWMAN: Manitoba Hydro 68,  
20 correct.

21 MS. TAMARA MCCAFFREY: That's right. So I  
22 think we're all familiar to that -- the update to  
23 Appendix 11.2, Undertaking 68.

24 You've developed another table here which  
25 we've had marked as MIPUG Exhibit 15. Can you take us

1 through this table. As I understand you're -- you're  
2 taking information from Manitoba Hydro Undertaking 68,  
3 which is flowing from the Appendix 11.2 and -- and this  
4 issue in the rebuttal evidence.

5 MR. PATRICK BOWMAN: That's correct.  
6 Table -- the MIPUG Exhibit 15 that was handed out this  
7 morning is -- is simply that the numbers that are in  
8 Manitoba Hydro's Exhibit 68. But what we did when we had  
9 a chance to review that plus eleven (11) -- Appendix 11.2  
10 -- but as corrected in Manitoba Hydro's exhibit was to  
11 note that there has been some incorrect discussion before  
12 this Board, in respect of how one uses marginal costs in  
13 -- in -- in a cost of service study in a regulated  
14 jurisdiction.

15 There's been some comment that you can do  
16 -- with -- when you do a marginal cost -- cost of service  
17 study -- you don't end up in the correct dollars at the  
18 end of the day. You end up with, on the generation side,  
19 frank -- quite a surplus because your marginal cost is  
20 higher than embedded and, on the distribution side, quite  
21 a shortfall.

22 People have in -- in a few jurisdictions,  
23 not a lot, but a few, four (4) are commonly cited --  
24 California, New York, New Mexico and Illinois, as I  
25 recall them -- use that as their cost of service type of

1 information, as opposed to what we have here. But -- and  
2 they do it by reconciling, when they get to the end of  
3 that marginal cost of service study, using an approach  
4 that was mentioned before this Board, Equal Proportion of  
5 Marginal Costs, EPMC. It's the same one that Hydro  
6 talked about in the -- that -- in -- with their exhibit.

7                   What has been put before the Board  
8 incorrectly though, is the -- how EPMC is used. We took  
9 the time to investigate California and to speak to some  
10 people there at the utilities who -- who deal with this  
11 sort of thing and pull up the evidence, and the key  
12 factor is that when they use equal proportion of marginal  
13 costs in a cost of service study, they do it by function.  
14 They do a generation cost of service study, which ends up  
15 with the results, and they do equal proportion of  
16 marginal cost, and then they do a distribution cost of  
17 service study, and they do the same thing.

18                   They don't have transmission because  
19 transmission isn't regulated by California, it's  
20 regulated by the Federal regulators. So the transmission  
21 is -- is a flow through.

22                   And as a result, your costs, your  
23 shortfalls or your surpluses, within your cost of service  
24 study are allocated back based on the marginal cost by  
25 function. That's what our table here set out to do with

1 the same data as is in -- is in Manitoba Hydro's Exhibit  
2 68. It shows the functions, generation and transmission,  
3 subtransmission, distribution, as well as distribution  
4 plant costs and customer costs. And it reviews the total  
5 marginal costs by function, so if you're -- if you're  
6 following it, it shows that the total -- marginal cost by  
7 function and it allocates them out back on equal  
8 proportion of marginal costs.

9           Mr. McLaren can walk you through math on  
10 it in a moment, but I'll just note two (2) or three (3)  
11 key things that you'll -- you'll note in this table. The  
12 first is that when you get to the marginal revenue costs  
13 coverage ratios at the bottom right-hand side of the  
14 table, they are, in most cases, not materially different  
15 than you get out of the imbedded Costs of Service Study.

16           The residential somewhat higher, ninety-  
17 nine (99) here versus ninety-six (96), and -- and street  
18 lighting is much higher, at one twenty-six (126) versus  
19 one-o-six (106). That simply reflects the fact that this  
20 doesn't yet have the -- the benefit of the -- the bulb  
21 cost built into it, it's just the energy component of --  
22 of street lighting. So the -- the other one has the bulbs  
23 built in which is a dampening factor on the overall RCC  
24 ratio.

25           And the other main thing you'll note is

1 that this is -- this -- this -- results are very hard on  
2 general service large, less than thirty (30), and general  
3 service large, thirty (30) to one hundred (100), which  
4 seemed odd to us.

5           And when we took the time to investigate  
6 that we found that it really relates to the -- the  
7 distribution component, in which these customers in the  
8 Cost of Service Study are allocated almost no  
9 distribution, because they almost don't use any. But in  
10 the marginal cost information Hydro prepared, they're  
11 allocated large amounts of distribution, the same as any  
12 other customer imposing a peak on the system.

13           So particularly at row 42, you can see for  
14 the general service large thirty (30) to one hundred  
15 (100), on the far right-hand side it notes that Hydro's  
16 Cost of Service Study allocates them forty-six thousand  
17 dollars (\$46,000) of distribution plant; that's the  
18 imbedded Cost of Service Study.

19           The marginal Cost of Service Study, by the  
20 time you carry across the earlier ones, allocates them  
21 \$8.6 million of distribution plant costs, which cause us  
22 a bit of concern in terms of the -- the gap there and --  
23 and would -- would lead to a comment that one -- with  
24 respect to the marginal cost information that's before  
25 this Board, one would be very cautious on how you want to

1 use it. Outside of those two (2) classes though, what we  
2 were concluding was that it did not lead to materially  
3 different results in the revenue cost coverage ratios  
4 than -- than the imbedded cost ratios, when applied the  
5 way that other jurisdictions would use it.

6 MS. TAMARA MCCAFFREY: And Mr. McLaren, I  
7 understand you were involved in developing this exhibit.  
8 Can you just make sure that everybody's clear as to what  
9 we're looking at here. Can you briefly take us through  
10 the table sir.

11 MR. ANDREW MCLAREN: Sure, I can do that.  
12 If you read the table from left to right, as Mr. Bowman  
13 mentioned, we've -- we've broken it out by function,  
14 columns A and B, the first two (2) columns, are taken  
15 directly from Manitoba Hydro's Exhibit Number 68, so if  
16 you follow along you should be able to find exactly those  
17 numbers in Manitoba Hydro's Exhibit Number 68.

18 And just for example, column A , marked  
19 generation marginal cost should be exactly the same as  
20 their generation marginal costs the second column on the  
21 top part of Exhibit MH-68. And then what we've done in  
22 column C is where there were marginal costs that were  
23 sort of capital-related on the top part of the table and  
24 also some marginal costs estimates for more sort of  
25 operations and maintenance type of costs, we've summed

1 them together in column C to arrive at an estimate of  
2 total marginal cost.

3                   Then what we did was take the class  
4 proportion in each example, for example, row 1, column C,  
5 you'll see residential there, marginal cost total of four  
6 hundred thirty-one million one hundred thirty-two  
7 thousand (431,132,000). We divided that by the total  
8 generation marginal costs at the bottom, the one three  
9 one four seven eight six (1314786) number to arrive at a  
10 ratio of about 33 percent of the total.

11                   Then to reconcile that back to the actual  
12 sort of embedded costs on a generation function we took  
13 33 percent multiplied it by the functional breakdown of  
14 costs in PCOSS '08, the five three two nine eight four  
15 (532984) number, to arrive at a -- a cost allocation for  
16 that class related to generation of a hundred seventy-  
17 four million seven hundred and seventy-one thousand  
18 (174,771,000).

19                   And so we've done that for each class and  
20 for each function and then summed them at the bottom and  
21 compared them against the forecast revenue in PCOSS '08  
22 to arrive at the marginal RCC ratio.

23                   Mr. Bowman reminds me that I should  
24 mention there are no exports here considering this table.  
25 And you'll note that it doesn't perfectly reconcile at



1 the bottom either because it also doesn't include surplus  
2 energy or diesel communities either, but it -- those  
3 classes also were included in MH Number 68, so the  
4 reconciliation isn't perfect at that level without those  
5 classes.

6 MS. TAMARA MCCAFFREY: Thank you for  
7 that, Mr. McLaren. Just to sum up this section then, Mr.  
8 Bowman, before we move on to Section 5, the Industrial  
9 Cost Based Rate Design Issues, can you summarize what  
10 your conclusions are for the Board?

11 MR. PATRICK BOWMAN: Yes, our conclusion  
12 coming out of the entire review was subject to correcting  
13 the one (1) item on DSM. Hydro had correctly applied  
14 this Board's directives in respect to the Cost of Service  
15 Study, that the Cost of Service Study is a -- is a useful  
16 tool -- notwithstanding that each of the parties to the  
17 Hearing probably still has slightly different positions  
18 on some of the technical details -- that it should be  
19 applied, and it can be applied in both of the ways that  
20 the Board noted, both pre- and post-export revenue.

21 And finally that as a result of that  
22 there's -- if -- if one is going to move forward to try  
23 to target revenue cost coverage ratios that reflect the  
24 Cost of Service Study, there would be a basis today for  
25 differentiated rate -- differentiated rate increases.

1 But to the extent those arise in -- in -- as distinct  
2 from the overall average, two point nine (2.9), with the  
3 exception of roadway lighting at one (1), as Hydro's  
4 proposed, those would be set out at -- at page -- they're  
5 -- they're the types of numbers that we saw earlier at  
6 page 37, which is the final results of the Cost of  
7 Service Study.

8           Looking at the earlier steps didn't  
9 necessarily change the conclusions materially with the  
10 exception of street lighting, which in the -- in the  
11 simple rote calculation to get street lighting to -- to  
12 fall 100 percent. Or unity revenue cost coverage it  
13 shows a -- a somewhat higher rate increase than -- than  
14 possibly is merited, given the overall extent to which  
15 they are actually above RCC when you take out the  
16 exports.

17           So that was -- that was one (1) that may  
18 not track the numbers exactly in -- in Table 4.4, but  
19 beyond that the basis for differentiated rate increases  
20 seem sound.

21           We put in a small comment there too, about  
22 the overall trends, in respect of -- of rate increases,  
23 and -- and an example of a recent re-balancing order from  
24 the British Columbia Utilities Commission which to -- BC  
25 Hydro to implement a three (3) year rate re-balancing to

1 get all customer classes to unity. Now that order has  
2 since been set aside by legislation of the government,  
3 but the order was issued by the BCUC based on the same  
4 type of analysis we're doing here.

5 MS. TAMARA MCCAFFREY: Thank you, Mr.  
6 Bowman. Moving to Section 5 of your evidence, commencing  
7 at page 40 which is the Industrial Cost Based Rate  
8 Design.

9 MR. ROBERT MAYER: Excuse me a minute,  
10 before you move on. We were going to hear about the  
11 bottom part of Exhibit 14 and -- and --

12 MS. TAMARA MCCAFFREY: Why don't we --  
13 let's -- let's -- we --

14 MR. ROBERT MAYER: Is that -- is that  
15 where we're going?

16 MS. TAMARA MCCAFFREY: Absolutely.

17 MR. ROBERT MAYER: Okay, sorry.

18 MS. TAMARA MCCAFFREY: Okay. And we can  
19 start with it if -- if you like. Why don't you take it  
20 away --

21 MR. ROBERT MAYER: No, I --

22 MS. TAMARA MCCAFFREY: -- Mr. Bowman --

23 MR. ROBERT MAYER: -- I didn't mean to  
24 get out of order, and I didn't mean to get you out of  
25 order. I thought you were moving on to a different

1 topic, and when we started with the top half of this I  
2 thought we were going to finish with the bottom half, but  
3 go right ahead.

4 MS. TAMARA MCCAFFREY: Thank you, Mr.  
5 Mayer. Take it away, Mr. Bowman.

6

7 CONTINUED BY MS. TAMARA MCCAFFREY:

8 MR. PATRICK BOWMAN: Well, we put off  
9 talking about the bottom half of the Exhibit 14, MIPUG  
10 Exhibit 14, until dealing with the cost of service  
11 section, because we wanted to take the time to have  
12 people's mind around the numbers that were coming out of  
13 -- of the -- the earlier reviews in respect of net export  
14 revenue.

15 In the Cost of Service Hearing, if people  
16 will recall correctly, Mr. McLaren and I suggested that  
17 -- to the extent, an argument was being made that we had  
18 surpluses of export revenues that some creative thinking  
19 probably was required as to what to do with those, rather  
20 than just to allocate them back equally across the cost  
21 of Hydro in the Cost of Service Study. From what we saw  
22 coming out the Cost of Service Order, it seemed that --  
23 that the Board was looking for some more comment on that  
24 by the time we got to this Hearing.

25 And so when we started talking about the

1 concept of -- of a reserve, a revenue-neutral reserve, to  
2 start to deal with the -- the risk, the -- particularly  
3 the -- the bulk power risks. We said this same tool  
4 also has a potential to serve that objective, in that if  
5 you can target -- have an ability to target a -- a  
6 balance in a fund or at least a transfer to a fund by  
7 this board, it could additionally target effectively a  
8 first call on exports although. It would just be another  
9 line item in the income statement, but a first call on  
10 exports to that reserve as well rather than going simply  
11 to lower rates on any given year.

12                   The bottom part of this table starts to  
13 address that. And -- and what it's doing is it's saying,  
14 Presume for a moment that we could get a reserve concept  
15 set-up in step 1 at the top of the table. And that as we  
16 move forward, the concept can be crystalized and -- and  
17 all -- all the necessary details worked out.

18                   It looks forward to a future year,  
19 2015/16, chosen out of the IFF, where a reserve is in  
20 place and for lack of a better number, it presumes that  
21 the reserve might have an opening balance of \$200  
22 million.

23                   It's got IFF '07-1 per Hydro there in the  
24 first column, which Hydro has presented leading up to a  
25 two thirty-one (231) net income and a one point two (1.2)

1 net interest coverage, including all of the rate  
2 increases -- we -- we weren't -- this is not a quibbling  
3 what rate increase is, type of table -- all the rate  
4 increases that are in IFF '07-1.

5           We said, But the -- what this might look  
6 like in the event that the reserve was implemented is in  
7 the next column. It might look like the same general  
8 consumer's revenue, but the row called "additional",  
9 which is the rate increases since that time, is actually,  
10 for lack of a perfect number, \$50 million higher than it  
11 -- it would have been. And overall, that's about 3  
12 percent higher on overall rates, just to put a number on  
13 it, over -- over this -- this period.

14           So about \$50 million higher, and as a  
15 result, that number helps show up in line 18, which is  
16 the -- the transfer going to the -- the regulated  
17 reserves.

18           In that year, were there to be an  
19 application before this Board that looked like the second  
20 column, the order from this Board may say that the  
21 additional rates are approved at that level and that the  
22 maximum exports or revenues net line, or line 21 maximum  
23 is 39 million, which would lead to Hydro forecasting a  
24 net income of 119 million which is a one point fifteen  
25 (1.15) interest coverage.

1                   And -- and we chose that number  
2 specifically, I'll talk about it in a minute, but the --  
3 which would lead to a one point fifteen (1.15) interest  
4 coverage.

5                   In this case, rates are higher than they  
6 would have been in that year. But we're talking about  
7 funds that are made available so that they are not  
8 available to ratepayers so that they are available in the  
9 future, when the draw downs occur. So they are revenue-  
10 neutral to ratepayers over the long term but not in any  
11 given year.

12                   In the second box we show how that  
13 operates using exactly the same years that we showed  
14 above. If one was to go forward with that, in a good  
15 water year, you might find that the transfer is higher.  
16 In a minor adverse year the transfer would be lower. And  
17 in a moderate drought, in this case you have \$200 billion  
18 in the reserve and you use all of it and you still are  
19 not able to fully fund the attempt to keep the extra-  
20 provincial's net line at 39 million.

21                   Had the reserve been higher, you would  
22 have only pulled out enough dollars to maintain extra-  
23 provincial revenues at the 39 million, which would be a  
24 value approved by this board.

25                   And Hydro's net income and interest

1 coverage is shown at lines 24 and 25, so it -- it remains  
2 at the 119 million level on -- on the good year and the  
3 minor bad year, but it actually does drop below on the  
4 moderate year.

5                   For comparison, we put another box to the  
6 right, which is exactly the same situation. It's just  
7 showing what would happen under the status quo where  
8 there is no such reserve in place. And you can see that  
9 what happens is the swings go to Hydro's net income and  
10 as a result, it's the same framework we -- we have in  
11 place now: rates, status quo rates, no management or --  
12 or stabilization of the bulk power system and Hydro's net  
13 income taking the swing; and similarly the Board having  
14 to set rates on the top row with its eye to what is  
15 coming out the bottom row and -- and that lack of linkage  
16 between their -- their control over the amounts going to  
17 reserve.

18                   When we -- I just wanted to note that the  
19 cost of service aspect of this would be that this would  
20 actually cause the cost of service to look different too  
21 because rates to ratepayers would have to be \$50 million  
22 dollars higher and that would show up in a sense inj --  
23 in the transfer to reserve going to the Cost of Service  
24 Study.

25                   So it does have that cost of service



1 flavour that was talked about in Order 117/'06 by this  
2 Board that not all export revenues ultimately would flow  
3 to the Cost of Service Study.

4 MR. ROBERT MAYER: Mr. Bowman, I'm not an  
5 accountant, and I -- I start off with that. But the  
6 reason that the bottom half of this Exhibit 14 interested  
7 me was that \$50 million higher rates than status quo 3.33  
8 percent higher, and I'm looking at that and saying, Are  
9 you actually suggesting that at some point in time  
10 Hydro's rates are too low and we ought to be increasing  
11 generally across the Board an extra 3.33 percent?

12 MR. PATRICK BOWMAN: Mr. Mayer, in the  
13 first years of thinking about setting aside a reserve,  
14 there would be a need to consider rate levels higher than  
15 they would have been for the benefit of rate levels down  
16 the road which would be the -- the large and  
17 unpredictable impacts when a drought occurs.

18 I'm quite specific about noting in the  
19 title that the -- the proposal is meant to be revenue-  
20 neutral to ratepayers over the long term. You can't --  
21 you can't move to the concept that's in the bottom half  
22 of this table without starting to do something like that.

23 We -- we specifically broke them out  
24 though because we wanted to make the point that moving  
25 forward on a reserve proposal, as this Board had

1 suggested twice before, does not necessarily require  
2 moving to that second step now or -- or at any particular  
3 point in time.

4                   It would probably be something that is  
5 worth consideration once one works through the detailed  
6 mechanics of it.

7                   And I for one would suggest that we would  
8 be able to consider an approach that comes up with the  
9 mechanics that would lead to determining a stable level  
10 with rates over time or a stability that -- that in some  
11 years would be higher and some years would be lower.  
12 That -- that's what you mean by stability I guess.

13                   MR. ROBERT MAYER:    Thank you.

14

15 CONTINUED BY MS. TAMARA MCCAFFREY:

16                   MS. TAMARA MCCAFFREY:   Now on the subject  
17 of the industrial cost-based rate design, you have a  
18 number of comments in your evidence, sir, commencing at  
19 page 40.

20                   Can you take us through your observations  
21 there?

22                   MR. PATRICK BOWMAN:   Well, what is the  
23 briefest section of our evidence, we note concern over  
24 the lack of progress in getting what one would now  
25 consider almost the standard, not even modern, but the

1 standard type of -- of rates in place for industrial  
2 customers that -- that you're seeing in other -- in other  
3 places designed to provide for the benefit -- pardon me,  
4 of both the customer and -- and the Utility and its other  
5 customers, the type of price signals that -- that allow  
6 people to respond and to see the benefits of responding.

7           Inverted rates is the first bullet.  
8 That's, as I was saying, it's -- it's becoming quite the  
9 norm even since we filed this as Mr. McLaren noted. He's  
10 been involved in a working group in Newfoundland that now  
11 has a -- a report before the Newfoundland Board of  
12 Commissioners jointly developed by the Utility and the  
13 industrial customers in Newfoundland with one (1) or two  
14 (2) outstanding issues for the Board to resolve such that  
15 they can move forward with this as well.

16           So we have a bit of catch-up to do on  
17 Newfoundland as well.

18           The self-generation in -- in a sense in  
19 one way could be a subset of -- of the inverted rates  
20 with the rate over the price signal you could pick up  
21 some of the benefits of the self-generation aspect.

22           And -- and I note that our concern here  
23 with lack of progress on this is the right type of price  
24 signals, particularly to industrial customers, gives you  
25 a potential to affect way more load than the kind of

1 things that are being talked about with, say, the new  
2 industrial rate. You've got 5 to 6 terrawatt hours of --  
3 of load; 6 terrawatt hours of load at -- at just -- just  
4 in the GS large greater than a 100 kV alone.

5                   And the reason you're seeing numbers  
6 earlier in this hearing that -- that has a bigger  
7 elasticity for these loads, it means that they're price  
8 sensitive. It means people pay attention to their  
9 electricity bill when you're -- when you're running a  
10 plant whether that's -- whether that's Inco or Canexus  
11 much more than a homeowner does. You can understand the  
12 -- the impact, and you can manage it.

13                   It also means that if the price -- the  
14 elasticity also has the other side of it which is people  
15 also can be pushed out of business by the wrong  
16 electricity prices unlike a residence that's probably  
17 going to be stuck here. So that's one (1) of the other  
18 reasons you see elast -- elasticity is higher.

19                   But they do have a -- a better ability to  
20 respond or a better practice of responding and -- and  
21 there -- there is a win/win aspect to putting in place  
22 these rates, if -- if we can only get on with them.

23                   We go on to talk a bit more about self-  
24 generation beyond inverted rates. Hydro's policy in  
25 respect of -- of non-utility generation is -- is

1 difficult for existing customers to -- to work their way  
2 through. And it means that the system is, in some cases,  
3 not offering opportunities for customers to pursue  
4 generation that would make both the customer and the  
5 system better off.

6 MS. TAMARA MCCAFFREY: Why do you say  
7 it's unfair that the treatment with respect to Manitoba  
8 Hydro's customers is unfair when it comes to non-utility  
9 generating?

10 MR. BOB PETERS: I'm not sure I used the  
11 word "unfair", but it's definitely inconsistent with what  
12 one would call normal system planning or price signals,  
13 that, you know, take -- take for a moment the assumption  
14 and -- and it's not a given, but the assumption that you  
15 had a customer that could -- could do some biomass  
16 generation, and could manage to talk the head office into  
17 sending some capital their way so that they could develop  
18 it, and produce that power at a rate of -- pick a number  
19 -- four and half (4 1/2) cents, just to pick a number.

20 Hydro in the event that were a -- a NUG on  
21 Hydro's system that were like a -- a wind generator, or  
22 someone they -- devel -- develop power, there would  
23 probably be economics there for Hydro to pursue that and  
24 to find a way to get that developed.

25 Due to the policies that's in place

1    though, because that customer is an existing customer,  
2    they're not given the opportunity to have that same  
3    relation with Hydro to get that power developed.  They're  
4    effectively told that it has to offset their existing  
5    load and their existing load reflects the benefit of the  
6    -- of the existing infrastructure.

7                    So they're left to have to, instead of  
8    produce power that's competitive on the market, they're  
9    -- they effectively have to produce power that's  
10   competitive with Grand Rapids or Pointe du Bois in order  
11   to -- to get to an economic proposal.  And that's --  
12   that's a barrier to getting something like that in place.

13                   It doesn't mean it's going to flood here,  
14   you know.  BC has a lot of this because they have a lot  
15   of forestry.  We don't necessarily have a lot, but -- but  
16   it's -- it seems inconsistent what the Utility was trying  
17   to put in place resources to -- to move forward for -- to  
18   capture future export opportunities and -- and manage  
19   it's -- it's local load.

20                   MS. TAMARA MCCAFFREY:  Do you have any  
21   comments to make with respect to time-of-use rates?

22                   MR. PATRICK BOWMAN:  Just at a high level  
23   we're -- I think it's a good sign that Hydro is saying  
24   there may be some benefit to this.  I appreciate the  
25   challenges of thinking about time-of-use rates on a daily

1 basis for indust -- industrials or for the system, et al.  
2 On a daily basis it -- it becomes very tricky to think  
3 about modelling them and confirming the benefit.

4           On a seasonal basis, I'm not sure the same  
5 barriers are in place. Different types of customers can  
6 make use of time-of-use different ways. Some have a  
7 benefit -- or some can manage their plant such that they  
8 -- they can benefit from seasonal, and some can't, and  
9 others can manage their plants such as they make use of  
10 daily, and -- and some can't do that. And I -- I can  
11 give some examples.

12           But overall, you have a customer class  
13 that has a certain profile that's paying certain rates  
14 that cover their costs. If you can send the right price  
15 signals such that they change their profile in a way that  
16 benefits the system and lowers their overall costs, they  
17 can see the benefits of doing that; of making their --  
18 their load reflect a profile that's lower cost to the  
19 system, say more load in spring and less in summer. So  
20 getting something like that in place with -- with price  
21 signals via time-of-use rates, again it has a real  
22 win/win potential aspect to it.

23           I -- I just note that the -- the win/win  
24 aspect it only works to the extent, it's not punitive to  
25 those who don't load shift, but there's no reason it

1 would need to be punitive to those who don't load shift  
2 since they're already paying rates that cover their costs  
3 at their current profile.

4 MS. TAMARA MCCAFFREY: You also have some  
5 comments with respect to the winter ratchet. You've  
6 indicated that the Board also has recognized that it's  
7 been used to signal customers regarding the higher cost  
8 of winter capacity, but it's a crude signal which sends  
9 far too strong an incentive to some customers and not at  
10 all to others.

11 Do you have any comments to make with  
12 respect to this area?

13 MR. PATRICK BOWMAN: I don't think we  
14 have much to add to the debate that's gone on in respect  
15 to the winter ratchet. Over time, it -- it's a -- a  
16 lingering issue. I think all parties recognize that --  
17 that there's far better ways to deal with the price  
18 signal associated with the winter ratchet than -- than  
19 what's currently in place.

20 It -- it counts for a fairly modest amount  
21 of -- of revenue to Hydro, but it also means it's a  
22 fairly modest cost to customers. It's more a -- a point  
23 of fairly high concern to one (1) or two (2) customers  
24 who take shut-downs in the summer and with a fair bit of  
25 notice, and they're still being paid rates based on their



1 winter peak, even though they're always told that summer  
2 energy is so valuable and they're freeing up the summer  
3 energy, so why are we paying extra.

4 So it's -- it's a limited number of  
5 customers that it -- it impacts, but to them it's -- they  
6 see it as a very poor price signal, and I think there's  
7 some merit to their -- their perspective.

8 MS. TAMARA MCCAFFREY: Would you like to  
9 summarize your conclusions with respect to industrial  
10 rate design, sir?

11 MR. PATRICK BOWMAN: Well, I think it's  
12 the same comment I made at the outset which is there  
13 would seem to be a fair bit of potential for -- for a  
14 win-win here. There is devil in the details in each of  
15 these. It takes time to get them in place. I  
16 acknowledge that.

17 And I think Hydro's comments about twelve  
18 (12) to eighteen (18) months are not off base. It's a  
19 concern that we're maybe just starting the clock on the  
20 twelve (12) to eighteen (18) months today, but whatever  
21 it is, I think there's some merit to getting on with it,  
22 particularly when you're talking about rates like the  
23 inverted rates, where when -- when you look at a new  
24 industrial rate where, as we hear most of the customers  
25 will never see this price signal. Most of the customers

1 will never pay the rate, we're told.

2           And new customers aren't inverted at all.  
3 It's not an inverted rate. Inverted rates can affect all  
4 of the customers and all of the load on the system. And  
5 it also doesn't get you into the real heavy level of --  
6 of review and concern over setting the marginal costs  
7 precisely, because you're ultimately doing a revenue-  
8 neutral design.

9           Customers aren't necessarily going to be  
10 clobbered with a -- a marginal price. They're just going  
11 to have a relative balance in their -- in their -- in  
12 their rates. So if you set the marginal price a little  
13 too high, it means one component of the -- of their rates  
14 are a little bit too high and the other component's a  
15 little bit too low, but it tends to wash out for the  
16 customer.

17           If somebody's paying the marginal rate on  
18 all of their load, it's a whole different standard of  
19 review. So the -- these don't have a lot of the same  
20 barriers to put in place the - the technical view of  
21 marginal cost and -- and that sort of thing that you've  
22 brought up against, where you see concern when we talk  
23 about the new industrial rate.

24           MS. TAMARA MCCAFFREY: And when you say  
25 "these don't have the same barriers" you're referring of

1 course to the items that you've just been discussing that  
2 are also on page 40 and 41 of your evidence?

3 MR. PATRICK BOWMAN: Correct. Inverted  
4 rates, time-of-use rates, self-generation signals, those  
5 type of things.

6 MS. TAMARA MCCAFFREY: Before I ask you  
7 just to summarize what your recommendations would be for  
8 the Board, pulling from this rate hearing, I'm going to  
9 give you an opportunity to comment on the new industrial  
10 rate proposal. Manitoba Hydro's, of course, clarified  
11 now that they're only seeking the endorsement of the  
12 December 31st 2007 date as a benchmark for looking at --  
13 at baselines.

14 Do you have any comments to make in this  
15 regard before we go to your conclusions?

16 MR. PATRICK BOWMAN: Well, it's -- it's a  
17 comment that just to reiterate from our perspective, the  
18 premise behind taking the time to make sure that anything  
19 of this nature that's put in place is done right is -- is  
20 sound and shouldn't be pre -- you know, no party should  
21 be prejudiced by taking the appropriate amount of time.

22 So if someone wants to set a benchmark or  
23 a -- crystallize a date in which benchmarks will be set  
24 in the event benchmarks link to a date and time, I -- I  
25 think just from my own professional perspective it --

1 it's probably wise, otherwise there may be a lot of  
2 incentive to really want to get on with it so you don't  
3 have people gam -- or the bench -- the date slipping away  
4 on you.

5                   We have noted a concern over extent to  
6 which one might base a benchmark on -- on usage through  
7 some period in time as opposed to the capability of  
8 assets, and I think that's a discussion for another day,  
9 but either way, you would need to think about a  
10 benchmark.

11                   Probably the other one that's worth noting  
12 is there are -- there was some discussion about the Power  
13 Smart credits and customers getting credit for the Power  
14 Smart programs undertaking, and I think -- I think it's  
15 fair to give customers notice if the -- if the Board  
16 intends to use some sort of benchmark. It's probably not  
17 offside to give them a certain notice that this might be  
18 coming or that at least it's -- it's going to another  
19 proceeding. I think that's probably already there. Most  
20 of the customers are pretty attentive to it.

21                   And -- and I think it's important to make  
22 sure that customers who have something like Power Smart  
23 activities underway today are still -- and they're  
24 counting on the credits arising from that, are still  
25 getting the credits from that if -- if the benchmark

1 slides. So -- or if the benchmark is set I mean.

2 So as -- as long as the benchmark  
3 appropriately recognizes the activities underway today  
4 and it gives customers fair notice and it takes away some  
5 level of -- of the -- the urgency or the gun to Hydro's  
6 head to want to get on with this then -- then it's  
7 probably a -- probably a good idea.

8 MS. TAMARA MCCAFFREY: Thank you, sir.  
9 Now just in concluding your direct evidence, would you  
10 like to just summarize the recommendations that you are  
11 making to the Board, flowing from this Hearing?

12 MR. PATRICK BOWMAN: Well, we summarize  
13 the main five (5) at page 3 of our evidence, just to go  
14 through them quickly. There -- there was a number of --  
15 of more minor ones and I'll -- I'll try to list those off  
16 as well.

17 But our first recommendation is in regards  
18 to the regulatory format and structure. It seems to us  
19 that this Board has twice asked Hydro to seriously  
20 consider how it could do reserves that follow some of the  
21 characteristics of what we've -- what we've put together  
22 in an illustrative example and we haven't seen it before  
23 come out of Hydro.

24 I think given all the problems we talk  
25 about -- and this is at bullet 1 at page 3 -- the use of

1 a debt equity target as -- for setting rates should -- we  
2 use the word "should be discarded", but should be  
3 certainly much of a less concern. The Board should  
4 consider moving towards putting in place, something that  
5 gives it a -- better levers of -- of control and a better  
6 ability to manage and understand the rate changes and  
7 have customers understand the rate changes than a simple  
8 long term debt equity target.

9           Second: In the event that there is  
10 comfort that the rate increase that's been requested by  
11 Hydro, the 2.9 percent rate increase overall, will  
12 ultimately be -- serve the purpose that -- for which it  
13 is intended, in other words be able to build up reserves,  
14 than given the information that's available we have no  
15 reason to conclude its not fair and -- and reasonable.

16           Third: The Cost of Service Study should  
17 be adjusted to -- to take out the double-counting in  
18 respect to DSM, and we suggest it be done by not  
19 crediting the DSM to export. If you want to credit the  
20 DSM to export, then a methodology is going to be needed  
21 that seems quite difficult and contentious to gross back  
22 up other people's load for the DSM they otherwise they  
23 undertook.

24           So we recommend that it's done by way of  
25 not giving the energy to exports, when instead reflecting

1 that energy with the customer class whose undertaking it  
2 now and simply use the -- the forecast out of the load  
3 forecast for each class.

4           The fourth one listed there is that the  
5 rate adjustments in this Hearing should be differentiated  
6 by customer class with an eye to both pre- and post-net  
7 export revenue allocation. As we noted today the  
8 marginal cost information can help provide some comfort  
9 once -- once it's applied appropriately.

10           And consideration should be given to  
11 whether -- in the event appropriate reserve mechanism  
12 can be set up, some level of those net export revenues  
13 that are reflected in the Cost of Service Study are  
14 better used to enhance the level of reserve in the early  
15 years.

16           Fifth: We are suggesting that in order to  
17 maintain -- to keep moving forward with the re-balancing,  
18 Hydro should be directed to implement a second rate  
19 adjustment on April 1, 2009 in the event it's not here  
20 for a rate change, which would be revenue-neutral to the  
21 Corporation but would be a series of pluses and minuses  
22 in order to move closer to the RCC ratios, the -- the  
23 zone of reasonableness, or unity. And that would be  
24 based on -- on the -- a five (5) year plan to get to the  
25 target, and beyond that the -- the exact rate adjustments

1 would simply mathematically arise.

2                   On top of that, we've, as -- as I've  
3 discussed, or suggest that the Board reiterate its  
4 recommendation that it receive some level of capital  
5 oversight on Hydro's capital program. And as we noted in  
6 PUB-3 that could take the form of an s/b certificate of  
7 public convenience and necessity requirement on -- on  
8 relatively major projects, and -- and as you'd see before  
9 at something like the National Energy Board or the BC  
10 Utility's Commission.

11                   We suggest that the Board include in its  
12 Order a recommendation that -- to the Minister of Finance  
13 to -- to exempt Hydro from the requirement for sinking  
14 funds, for -- for new debt, particularly borrowed for --  
15 for major new projects.

16                   And the others I can, you know, that --  
17 that recognition is given to the benefits Brandon Number  
18 5 provides to the system, so we're not at the mercy of  
19 the imports to backup droughts; to get on with the  
20 industrial rate design with aspects like, stepped or  
21 potentially seasonal time of use; to find a way to accept  
22 NUGs from existing customers, either via stepped-rate  
23 design or an amendment to the policy. Overall -- in  
24 terms of the overall rates we accept the conclusion of  
25 street lights receiving a lower than average increase.



1                   And one (1) other matter that I -- I  
2 realize I didn't touch on; pending working out the  
3 details on a new industrial rate, it would be a much  
4 clearer signal to people today if the rate change were  
5 simply applied equally to demand and energy components of  
6 the rate, rather than -- rather than simply to the  
7 energy, because it -- it impacts different customers  
8 differently. And -- and so when you hear 2.9 percent  
9 rate increase it -- it -- it's not 2.9 percent across the  
10 board, and pending getting on with the industrial rate  
11 design, it -- it didn't seem like a major item.

12                   MS. TAMARA MCCAFFREY: Thank you very  
13 much. I can advise that completes the direct evidence of  
14 Mr. Bowman and Mr. McLaren. They're available for cross-  
15 examination. The Board may prefer to take a break at  
16 this juncture and resume at --

17                   THE CHAIRPERSON: Yes.

18                   MS. TAMARA MCCAFFREY: -- their pleasure?

19                   THE CHAIRPERSON: Thank you very much. I  
20 think what we'll do is have the break and then we'll go  
21 to Mr. Williams. Thank you.

22

23 --- Upon recessing at 10:18 a.m.

24 --- Upon resuming at 10:42 a.m.

25

1 THE CHAIRPERSON: Mr. Williams, do you  
2 want to want to start your cross?

3

4 CROSS-EXAMINATION BY MR. BYRON WILLIAMS:

5 MR. BYRON WILLIAMS: I'm prepared to  
6 start my cross, Mr. Chairman, and good morning. Good  
7 morning Mr. Bowman and Mr. McLaren, as well.

8 Just for the benefit of the -- the  
9 InterGroup witnesses as well as for the -- the Board, I  
10 will be referring fairly extensively to the pre-filed  
11 evidence of Mr. Bowman and Mr. McLaren, and as well a bit  
12 later this morning, to three (3) responses of MIPUG to  
13 the Public Utility's Board, Number 12, Number 3 and  
14 Number 11.

15 Mr. -- Mr. Bowman, I'll -- I'll start with  
16 you and of course your -- your colleague can feel free to  
17 jump in as he fees -- sees fit. I want to follow-up just  
18 a little bit to your direct evidence yesterday when you  
19 took -- basically, and I'll -- you can keep your answers  
20 short for the -- for the first little bit, and then we'll  
21 give you a chance to elaborate in a couple seconds -- you  
22 took a fairly close look at two (2) IFs, being '02-1 and  
23 '07-1.

24 Is that fair Mr. Bowman?

25 MR. PATRICK BOWMAN: Yes.

1                   MR. BYRON WILLIAMS:   And I want to look a  
2 little more closely at why you consider IFF'02-1 to be of  
3 a somehow analytical consequence and also I'll suggest to  
4 you that one (1) of the reasons you do so, it was -- is  
5 that it was the first IFF to fully incorporate the -- the  
6 purchase of Winnipeg Hydro.

7                   Would that be fair, sir?

8                   MR. PATRICK BOWMAN:   Correct, that's my  
9 understanding, yes.

10                  MR. BYRON WILLIAMS:   And it also, as you  
11 indicated yesterday, took into account the special export  
12 payment to the province, correct?

13                  MR. PATRICK BOWMAN:   That's correct.

14                  MR. BYRON WILLIAMS:   And it's the last  
15 version available to the Public Utility's Board in the  
16 process leading up to the status update decision, Board  
17 Order 7-03.

18                  Is that fair?

19                  MR. PATRICK BOWMAN:   Yes, that's correct.  
20 We thought the status update was a bit of an important  
21 event because it was the first time that Hydro went back  
22 before this Board to have its -- its costs and rates  
23 reviewed for quite some time, six (6) -- six (6) or seven  
24 (7) years as I recall.

25                  So it was a period where lots of utilities

1 across Canada were in effect getting re-regulated, and  
2 although nothing had changed in legislation here -- or  
3 things -- we practically had a sort of re-regulation type  
4 of proceeding in 2002. It was a fairly major event.

5 MR. BYRON WILLIAMS: And -- and I thank  
6 you for that, because that's where I was going, Mr.  
7 Bowman. Really this is the -- the -- the last IFF before  
8 we embarked upon a new regulatory era.

9 Would that be fair -- correct, Mr. Bowman?

10 MR. PATRICK BOWMAN: I -- I think that's  
11 fair.

12 MR. BYRON WILLIAMS: And as I understand  
13 your answer to me, one (1) question previously you -- you  
14 mentioned there was a relative dearth of rate regulation  
15 of Manitoba Hydro in the late 1990s and so IFF '02-1  
16 gives us a bit of a snapshot of Manitoba Hydro before it  
17 became subject to more rigorous regulation, correct?

18 MR. PATRICK BOWMAN: Well, more -- more  
19 rigorous ongoing review at -- at intervals. I -- not --  
20 practical regulation, I guess, is a better --

21 MR. BYRON WILLIAMS: Okay.

22 MR. PATRICK BOWMAN: -- way for me to put  
23 it.

24 MR. BYRON WILLIAMS: And it's also an  
25 important document, because it's also -- it was the basis

1 for Hydro's adoption of the current financial target  
2 related to a debt/equity ratio of 75:25 by 2011/12,  
3 correct, sir?

4 MR. PATRICK BOWMAN: Yeah, that's what we  
5 saw Hydro's response in PUB Question 123(A). That --  
6 that's -- that's where we got that from.

7 MR. BYRON WILLIAMS: And again, I am  
8 going to just cross over briefly what you discussed  
9 yesterday, but hopefully there's a -- there's a point to  
10 it at the end. And you -- you chose for the -- analy --  
11 analytical purposes of your evidence to compare this IFF  
12 '02-1 to IFF '07-1, first of all because IFF '07-1 is the  
13 most recently available IFF, correct?

14 MR. PATRICK BOWMAN: Correct.

15 MR. BYRON WILLIAMS: And it's also one  
16 which suggests that Hydro will not meet its 75:25 target  
17 by 2011/'12, correct, sir?

18 MR. PATRICK BOWMAN: Well, that's a  
19 characteristic of the IFF. It wasn't a reason for  
20 choosing it, but it is a characteristic of the IFF.

21 MR. BYRON WILLIAMS: And given that  
22 characteristic of the IFF, really a central part of your  
23 --your evidence in this proceeding was trying to get your  
24 -- your keen analytical mind, your keen analytical mind  
25 around the reasons why back in 2002, 74:25 seemed reas --

1     seemed -- an output of that was hitting the -- hitting  
2     the debt/equity target by 2011/'12, well is in a -- to --  
3     today it doesn't seems to be reasonable that we hit 75:25  
4     in -- in 2011/'12.

5                     Is that fair, sir?

6                     MR. PATRICK BOWMAN:     Yes.  When we get a  
7     GRA delivered to our offices we can pretty much count on  
8     at some point getting a phone call from members, saying,  
9     What's going on, when -- so you better have a pretty  
10    simple answer to that.  So this is the type of analysis  
11    that we would -- we would do to be able to tell them  
12    what's -- what's going on.

13                    MR. BYRON WILLIAMS:     And in terms of  
14    what's going on, you spend a lot of time trying to get  
15    your head around why they're -- they're not likely to  
16    meet the 75:25 in this IFF and comparing it with the  
17    circumstances and the projections in IFF '02-1.

18                    Is that right?

19                    MR. PATRICK BOWMAN:     Yes.

20                    MR. BYRON WILLIAMS:     And I just quickly  
21    want to direct you to Attachment B of your evidence.  And  
22    you went through this in some detail yesterday, so again  
23    I'll try not to -- to trample too -- too much on it.

24                    And in particular page B6 which is figure  
25    B.11, so page B6 in the bottom right-hand corner and the

1 -- the figure B.11 at the top.

2 Do you have that Mr. McLaren, or Mr. --  
3 Mr. Bowman?

4 MR. PATRICK BOWMAN: Yes.

5 MR. BYRON WILLIAMS: And again, you, this  
6 -- this looks at the comparison between the two (2) IFFs;  
7 the darker one or blue one being IFF '02-1; the -- excuse  
8 me, the lighter one or blue being IFF '02-1 and the  
9 darker one or red one being IFF '07-1.

10 Is that right, sir?

11 MR. PATRICK BOWMAN: Yes.

12 MR. BYRON WILLIAMS: And the point you  
13 made yesterday, when you look at retained earnings for  
14 Manitoba Hydro, certainly in the period between '02/'03  
15 and '06/'07. There's a sharp dip which is a consequence  
16 of the -- of the drought, but there's what appears to be  
17 full recovery as compared to the forecast of IFF '02-1 by  
18 '06/'07.

19 Is that right, sir?

20 MR. PATRICK BOWMAN: Yes.

21 MR. BYRON WILLIAMS: What I just want to  
22 focus on for a couple of minutes is those next years --  
23 the years '07/'08 versus 2011/2012.

24 And if I look at those -- those years,  
25 what it's really telling me that simply not looking at

1 debt/equity but simply look at retained earnings, is that  
2 the actual retained earnings for Manitoba Hydro as  
3 projected -- projected in IFF '07-1 are actually quite a  
4 bit higher than the retained earnings projected way back  
5 in IFF '02-1.

6 Is that fair, sir?

7 MR. PATRICK BOWMAN: Yes. And if I  
8 remember my numbers correctly, it's in the range of \$2 to  
9 \$300 million.

10 MR. BYRON WILLIAMS: And I think the --  
11 if you're looking for reference to your numbers, it's  
12 probably page B-4 or B-5. At the bottom of B-4, top of  
13 B-5.

14 But when we look at the projection, for  
15 example, for 2011/'12, under comparing the two (2) IFFs,  
16 in the IFF '07-1, we're actually looking at retained  
17 earnings being about \$295 million or 15 percent higher in  
18 that year. Would that be -- based upon the -- the most  
19 recent IFF.

20 Is that correct, sir?

21 MR. PATRICK BOWMAN: I -- I'll accept the  
22 number. It's pretty consistent with what's shown on the  
23 chart. I don't have those exact numbers in front of me.

24 MR. BYRON WILLIAMS: Mr. Bowman, lest you  
25 distrust me, if you just go back one (1) page to page B-5



1 at the top, line 1, you might see that there.

2 MR. PATRICK BOWMAN: Now I have the  
3 number in front of me, thank you.

4 MR. BYRON WILLIAMS: Do you trust me, Mr.  
5 Bowman?

6 MS. TAMARA MCCAFFREY: Don't answer that.  
7

8 CONTINUED BY MR. BYRON WILLIAMS:

9 MR. BYRON WILLIAMS: I thought I was  
10 making real progress with that witness, Ms. McCaffrey.

11 And again, Mr. Bowman, I won't -- so two  
12 (2) key points you made in your -- your evidence  
13 yesterday was, one (1) is we can't blame the drought for  
14 the fact that Hydro's no longer projected to meet its  
15 debt/equity target by 2011/'12. That's one (1) key  
16 point.

17 Is that not right, sir?

18 MR. PATRICK BOWMAN: Well on -- on  
19 critical review of that assertion, it didn't seem to bear  
20 out.

21 MR. BYRON WILLIAMS: Okay. And it would  
22 also -- another point flowing from your analysis is that  
23 it's not because we have lower retained earnings because  
24 in fact, retained earnings, as projected in IFF '07-1,  
25 are 15 percent higher than as projected in IFF '02-1 for

1 the 2011/2012 year, correct?

2 MR. PATRICK BOWMAN: Correct.

3 MR. BYRON WILLIAMS: And again, we'll --  
4 we'll move on quickly but the other point or another  
5 point you made yesterday as well or I'll infer from your  
6 evidence yesterday is that there's no basis to support a  
7 claim that lower than forecast rate increases or lower  
8 than forecast revenues are responsible for Hydro not  
9 achieving its debt to equity target by 2011/2012 when you  
10 look at the comparison of the two (2) IFFs.

11 Is that fair, sir?

12 MR. PATRICK BOWMAN: Lower than forecast  
13 rate increases did not bear out on review and lower than  
14 forecast total revenues is -- is not correct either.

15 MR. BYRON WILLIAMS: And, Mr. Bowman,  
16 just a point of clarification. In your evidence  
17 yesterday you were speaking of the financial results from  
18 IFF '07-1 and -- and you used the word "deterioration".

19 Do you remember using that word, sir?

20 MR. PATRICK BOWMAN: I probably did.

21 MR. BYRON WILLIAMS: And just so I'm  
22 clear and my clients are clear, when you speak of  
23 deterioration between the two (2) IFFs, as we sit here  
24 today in '08/'09, it's not a deterioration in terms of  
25 retained earnings.

1                   Would that be correct, sir?

2                   MR. PATRICK BOWMAN:   No, it was -- it was  
3 meant to reference deterioration in the projections that  
4 have traditionally been presented by Hydro in respect of  
5 explaining what its financial position is.  Focussing on  
6 things like achievement of a debt/equity target or  
7 progress towards the debt/equity target.

8                   And it really has two (2) aspects to it.  
9 One (1) being the IFFs now have higher rate increases  
10 through time than had been there before, and second is,  
11 notwithstanding that they fail to meet the -- the  
12 statistic that -- that Hydro portrays as being key over  
13 the long term which is the debt/equity ratio.

14                  MR. BYRON WILLIAMS:   Okay, so and to --  
15 to cut to the chase and by deterioration, it's  
16 notwithstanding higher than forecasted rate increases.  
17 The deterioration is that they're not going to meet that  
18 target by 2011 -- 20 -- 2011/2012 at least as portrayed  
19 in IFF '07-1.

20                  MR. PATRICK BOWMAN:   Yeah, det --  
21 deterioration in the context of what is traditionally  
22 looked at in respect of rates.  I think the rest of this  
23 appendix basically questions certain aspects of the  
24 assertion of deterioration.

25                  MR. BYRON WILLIAMS:   Okay.  And, Mr.

1 Bowman, just you may want to have it at -- at hand your  
2 response to PUB/MIPUG Number 12. And if you're flipping  
3 around in your evidence, you might want to go about page  
4 9, please, sir.

5

6 (BRIEF PAUSE)

7

8 MR. BYRON WILLIAMS: Not page B-9, Mr.  
9 Bowman. Page 9 of your evidence, got it.

10 And again, using your word  
11 "deterioration," the thrust of your evidence on page 9 as  
12 I understand it of your direct -- your pre-filed written  
13 evidence is, if you try -- you're trying to understand  
14 the deterioration, you shouldn't be looking to the  
15 special dividend, you shouldn't be looking to the  
16 drought, and you shouldn't be looking to higher domestic  
17 load, and lower rate increases. Those are not the -- the  
18 key drivers.

19 Is that correct, sir?

20 MR. PATRICK BOWMAN: Correct, they're --  
21 they're not -- not only not the key drivers, some of them  
22 aren't -- are not drivers at all. As a matter of fact  
23 some of them are -- are benefits.

24 MR. BYRON WILLIAMS: Mr. Chairman, I'm  
25 just going to -- I'm having some mic problems, so I'm

1 just going to see if I can flip.

2

3

(BRIEF PAUSE)

4

5 MR. BYRON WILLIAMS: And -- and as I  
6 understand the thrust of your evidence on page 9, Mr.  
7 Bowman, the two (2) key drivers of the deteri --  
8 deterioration would be relatively higher capital spending  
9 and a significant increase in OM&A between the forecasts  
10 of IFF '02-1 and IFF '07-1.

11 Is that correct, sir?

12 MR. PATRICK BOWMAN: Well, when we had  
13 been through each of the line items those were the two  
14 (2) that -- that sort of left out as being central to the  
15 overall change in financial position.

16 MR. BYRON WILLIAMS: And it's a change  
17 you might -- you've described as a deterioration?

18 MR. PATRICK BOWMAN: Well, they're  
19 contributing to the long-term deterioration. I just want  
20 to be a bit careful that when you're looking at O&M  
21 spending, it is one (1) of the factors that fits into net  
22 income, and net income is the -- the factor that  
23 cumulatively deal -- deals with the retained earnings.  
24 So if the retained earnings are higher than had been the  
25 case, that is, of course, the sum of a number of factors

1 which includes O&M, overall -- that -- the -- the picture  
2 of retained earnings are higher means net income has been  
3 higher.

4 So is O&M contributing to -- to  
5 deterioration? Well, it's one (1) of the line items  
6 summing to something that's actually contributing to an  
7 improvement, but in that line item alone is a significant  
8 amount of difference -- increase offset by changes in  
9 the other line items if you like.

10 And I apologize if that's more explanation  
11 than you were looking for, but I think it was probably  
12 important.

13 MR. BYRON WILLIAMS: And -- and I --  
14 probably it's a deserved explanation, Mr. Bowman.

15 When it comes down to trying to understand  
16 why Manitoba Hydro is not going to meet the -- it's  
17 financial targets, or is not projecting to meet it's  
18 financial target of 75/25 in 2011/2012, the two (2), to  
19 use your word, central factors you've identified are  
20 higher -- relatively higher capital spending and a  
21 significant increase in OM&A.

22 Is that right, sir?

23 MR. PATRICK BOWMAN: Yes, but for those  
24 two (2) factors we would have a very different IFF in  
25 front of us.

1 MR. BYRON WILLIAMS: To -- to put it in  
2 Byron Williams' colloquial terms, you -- I might suggest  
3 to you that this is a corporation that, on the spending  
4 side, is letting its hair down a little bit. It's -- on  
5 -- spending more on capital and it's seeing also  
6 significant increases in OM&A.

7 Is that right, sir?

8 MR. PATRICK BOWMAN: It's your  
9 characterization, not mine.

10 MR. BYRON WILLIAMS: Well, let me -- let  
11 me put it another way. I didn't -- I didn't think you'd  
12 go for that characterization, on the record anyways, Mr.  
13 M -- Mr. Bowman. But -- it -- with hindsight, if we look  
14 at IFF '02-1, on the revenue side, this corporation is  
15 over performing. On the costs control side, it may be  
16 under performing.

17 Would you accept that characterization?

18 MR. PATRICK BOWMAN: On the revenue side,  
19 it is exceeding earlier forecasts. On the costs side,  
20 it is similarly exceeding earlier forecasts, particularly  
21 in respect of the O&M line and the capital line as  
22 opposed to, say, water rentals. And -- the -- those are  
23 the two (2) directional impacts.

24 MR. BYRON WILLIAMS: All things being  
25 equal, we like to exceed forecasts on the revenue side,

1 and we like to not exceed forecasts on the costs side a  
2 lot. All things being equal, sir.

3 MR. PATRICK BOWMAN: Well, that's  
4 correct. And -- the -- the premise you set out is key,  
5 all other things being equal. When you deal with aspects  
6 like benchmarking, you're often into the situation where  
7 you say, Not -- no, other things are not always equal but  
8 often you'll look to try to divide costs into things like  
9 controllable costs and non-controllable costs, or aspects  
10 of an income statement that people can do something about  
11 and those that can't in terms of managing the Utility.

12 These are two (2) items that would --  
13 would often show up in the things they can do something  
14 about. They can't do everything about -- Manitoba Hydro  
15 can't control the costs of copper, for example -- but it  
16 can do some things about.

17 MR. BYRON WILLIAMS: And we're gonna --  
18 we're going to chat about that for just a couple seconds  
19 and thank you for that segue. I wonder if you can turn  
20 to the response PUB/MIPUG Number 12, sir?

21

22 (BRIEF PAUSE)

23

24 MR. BYRON WILLIAMS: Do you have it?

25 MR. PATRICK BOWMAN: Yes.



1                   MR. BYRON WILLIAMS:   And as I look at --  
2 there's a table on the middle of page 1 of 2, revised  
3 Table B-2, and what it's attempting to portray, Mr.  
4 Bowman, I'll suggest to you is OM&A expenses from  
5 2002/'03 through to 2012/2013, as projected in a series  
6 of IFFs starting with IFF '02-1 and concluding with IFF  
7 '07-1.

8                   Would that be fair, sir?

9                   MR. PATRICK BOWMAN:   Yes, covering the  
10 same series of years and the numbers that are in italics  
11 in that table are the actuals from those years.  So, for  
12 example, IFF '07-1 does not have a forecast for '02/'03.  
13 It's the actuals for '02/'03, 272 million.

14                  MR. BYRON WILLIAMS:   And my eyesight is  
15 no longer refined enough to see italics, Mr. Bowman.  But  
16 I -- but I have your point.  And I guess just in terms of  
17 -- let's take a year, for example, '08/'09, if we look at  
18 IFF '02-1, the projected cost per customer for that  
19 particular year would be 326 million.

20                  Is that right, sir?  Am I reading this  
21 table correctly?

22                  MR. PATRICK BOWMAN:   '08/'09 for IFF '02-  
23 1 was three twenty-six (326).  I think that's number you  
24 were referencing.

25                  MR. BYRON WILLIAMS:   I hope it was.  That

1 was my intent. Moving just down that column, we see by  
2 IFF '05-1 that -- that the forecast for that year has  
3 changed. It's risen to 338 million.

4 Is that right, sir?

5 MR. PATRICK BOWMAN: Yes.

6 MR. BYRON WILLIAMS: And likewise, IFF  
7 '07-1, we see, it's risen again to 360 million.

8 Correct, sir?

9 MR. PATRICK BOWMAN: Correct.

10 MR. BYRON WILLIAMS: And at the final  
11 column -- what you've done -- and you spoke of this  
12 yesterday is you've -- you've looked at the cumulative  
13 results and the point is, I understood you making it  
14 yesterday, was that if we look at -- compare again IFF  
15 '02-1 versus IFF '07-1, there's about a \$250 million  
16 difference and that costs are higher in the most recent  
17 forecast.

18 Is that -- that right, sir?

19 MR. PATRICK BOWMAN: Right. Over the  
20 same period, using the same dollars, to use the economics  
21 speak, these are -- these are all expected to be in the  
22 same year of dollars so it's not inflationary impact.  
23 You're up by approximately \$250 million.

24 MR. BYRON WILLIAMS: And -- and again  
25 because I -- I wasn't sure I heard you, and I have not

1 had a chance to review the transcript, the point -- one  
2 (1) of the points you appear to be making was that if we  
3 would have in terms of the debt/equity target, if the  
4 results of IFF '02-1 would be realized rather than the  
5 projections of IFF '07-1, the debt/equity ratio would be  
6 two (2) to three (3) points lower.

7 Would that be fair, sir?

8 MR. PATRICK BOWMAN: Well you're going  
9 back to your earlier qualifier, all other things being  
10 equal. If everything could -- if the Utility could have  
11 been run on the series of OM&A forecast in '02-1 compared  
12 to '07-1, the debt/equity ratio would be two (2) to three  
13 (3) points higher, yeah.

14 MR. BYRON WILLIAMS: And recognizing that  
15 not all costs are controllable but your evidence is that  
16 when -- when we look at elements of the cost structure  
17 that are more within the control of the Corporation, we  
18 would look to OM&A as a significant one.

19 Correct, sir?

20 MR. PATRICK BOWMAN: That -- that would  
21 be the normal understanding, correct.

22 MR. BYRON WILLIAMS: And this table and  
23 your analysis has led you to conclude that systematic  
24 increases and OM&A spending have been a consistent and  
25 compounding reason underlying the failure to achieve the

1 debt/equity target.

2 Would that be fair?

3 MR. PATRICK BOWMAN: Yes.

4

5 (BRIEF PAUSE)

6

7 MR. PATRICK BOWMAN: I -- I might note  
8 that that statement is in particular commenting on the  
9 mathematical relationship that this mathematically you  
10 run the two (2) sets of numbers, this is what occurs.

11 MR. BYRON WILLIAMS: I'm not putting  
12 words in your mouth though, Mr. Bowman.

13 Those are your words, are they not?

14 MR. PATRICK BOWMAN: Correct.

15 MR. BYRON WILLIAMS: Mr. Bowman, there's  
16 a comment you have in your evidence at page 12, line 15  
17 that I -- I'd like to direct your attention to, please,  
18 if you would, sir. Page 12, line 15 to 17.

19 MR. PATRICK BOWMAN: Yes.

20 MR. BYRON WILLIAMS: The -- the statement  
21 is:

22 "Evidence indicates that with respect  
23 to Hydro's costs, both for OM&A  
24 spending and particularly for normal  
25 capital spending, the Board appears to

1                   have had little influence on  
2                   encouraging and giving effect to cost  
3                   control."

4                   That's your position, Mr. Bowman?

5                   MR. PATRICK BOWMAN:    It was a statement  
6 we made leading into the section on analyzing  
7 particularly O&M that follows, and it's particularly in  
8 order to note the contrast between what we're seeing  
9 today and -- and evidence I gave in this same proceeding  
10 in -- in -- at the status updates, 2001, which was that  
11 at that time you would look at an IFF and Hydro's costs  
12 tracked quite nicely along the IFF over periods of five  
13 (5), six (6), seven (7) years.

14                   Now we're facing a situation where those  
15 -- those escalate in each given year and so the question  
16 is, is -- to what extent as this statement says is the --  
17 is the influence of the Board helping Hydro maintain to  
18 its -- its forecast, and -- and I would say that there's  
19 a -- at least a suggestion that -- that notwithstanding  
20 Board directives and orders to try to maintain cost  
21 control, that doesn't appear to show up mathematically at  
22 least in the IFF.

23                   MR. BYRON WILLIAMS:    Okay.   And I  
24 appreciate that, and I won't belabour this point but just  
25 in the period -- you mentioned two (2) periods.   One (1)

1 period in the 1990s where you observed greater fidelity  
2 to -- to IFFs.

3 Is that correct, sir?

4 MR. PATRICK BOWMAN: Yes, I said the  
5 1990s. It was the evidence that I filed before this Board  
6 in the status update proceeding in 2001/2002 with Mr.  
7 Osler where we did the same review, and we actually had  
8 quite a -- a complimentary comment in our evidence about  
9 Hydro's ability to maintain on its IFF track over time.

10 And even looking at the table you took me  
11 to which shows all of the IFFs, it suggests that that  
12 continued even for some years thereafter until about  
13 2003/'04.

14 At some point there, the long term trend  
15 in the IFF's really started to -- to shift to major jumps  
16 in each subsequent year of forecast.

17 MR. BYRON WILLIAMS: And just in terms of  
18 your analysis lest we lose my point, Mr. Bowman, the  
19 complimentary comments about -- appeared in the 1990s was  
20 really focussed on OM&A class.

21 Is that correct, sir?

22 MR. PATRICK BOWMAN: That's correct.

23 MR. BYRON WILLIAMS: And the concern that  
24 you've identified is the divergence between a forecast  
25 and results, as well as the upward trend in OM&A costs

1 since about '03/'04.

2 MR. PATRICK BOWMAN: Yeah, I think a  
3 pretty consistent upward trend, yes.

4 MR. BYRON WILLIAMS: And you use the  
5 word, "pretty consistent upward trend", and -- and I  
6 think you had an interesting comment yesterday that I  
7 want to follow-up on. The -- perhaps the one outlier to  
8 that upward trend, Mr. Bowman, might that be IFF '05-01,  
9 sir?

10 MR. PATRICK BOWMAN: Well, if you're --  
11 have PUB/MIPUG-12 in colour, it's notable as an outlier,  
12 '06-4 has some of the same effect, but '05-1 which is on  
13 there as a purple line has a period which actually looks  
14 downward sloping. I think looking at the numbers it's  
15 actually flat, but in relation to everything else it  
16 looks quite downward-sloping, which is the year that  
17 there is -- in that IFF there's a comment about a fairly  
18 major productivity factor being built in that year to  
19 reflect the new head office.

20 And -- and so it -- it was just -- when  
21 you do a graph like this it's the kind of thing you would  
22 cross-check, and so we wanted to see why there -- there  
23 was this sort of sharp line -- sharp corner, and -- and  
24 that's what our -- the IFF '05-1 indicated.

25 MR. BYRON WILLIAMS: I really am going to

1 have to get a colour printer, Mr. Bowman, so I can keep  
2 up with you.

3 But in terms of the -- the one outlier,  
4 your suggestion is that that's due to forecasted  
5 operational savings from the new head office building in  
6 that particular year?

7 MR. PATRICK BOWMAN: Well, that's what  
8 IFF '05-1 comments. And if you don't have a colour  
9 printer, your graph will note that there's a different  
10 pattern for each of the lines, and IFF '05-1 is the one  
11 that is comprised solely of long dashes with no dots.

12 MR. BYRON WILLIAMS: If I look, Mr.  
13 Bowman, at the IFF subsequent to IFF '05-1, I'm going to  
14 suggest to you it would be difficult to discern or  
15 identify any operational savings associated with the new  
16 head office building.

17 Would that be fair, sir?

18 MR. PATRICK BOWMAN: Well, IFF '06-4 had  
19 a certain jagged corner as well. We didn't bother to  
20 investigate that one to the same degree, because we'd --  
21 we'd by the point we were receiving that relatively minor  
22 update, it -- IFF '07-1 was available so we -- we -- but  
23 IFF '07-1 does not have any -- the current one does have  
24 any notable sharp corner.

25 MR. BYRON WILLIAMS: In -- in your review



1 of the evidence in this Hearing -- well let me back a  
2 second. You recall in the past there's been a suggestion  
3 that this new building might be brought in a revenue-  
4 neutral basis.

5 Do you recall that, sir?

6 MR. PATRICK BOWMAN: I recall that being  
7 Hydro's evidence, yes.

8 MR. BYRON WILLIAMS: In your review of the  
9 evidence in this proceeding, have you reached any  
10 conclusions as to whether or not it's -- it's still  
11 likely that that new building will be brought in on a  
12 revenue-neutral basis, sir?

13 MR. PATRICK BOWMAN: We -- I'll say in --  
14 in short, no, we haven't reached any conclusion and in  
15 particular it's because we didn't have any analysis to --  
16 to review to try to come to a conclusion.

17

18 (BRIEF PAUSE)

19

20 MR. BYRON WILLIAMS: In your  
21 recommendations to the Board this morning, I -- I think  
22 you used the word "comfort" in -- in -- near the end your  
23 evidence, Mr. Bowman. And looking -- my question to you  
24 is: Looking forward to 2008/'09, that year and beyond,  
25 and looking at Manitoba Hydro's forecast costs of

1 2008/2009 and beyond, if you were asked by this regulator  
2 whether it ought to have comfort with Manitoba Hydro's  
3 cost forecasts, how might you respond?

4 MR. PATRICK BOWMAN: Well, it's -- it's  
5 very difficult to look at a series of numbers that are  
6 rolled-up from massive data sets of -- of all sorts of  
7 forecast and the like and -- and come to some high-level  
8 conclusions. That's one of the challenges of doing  
9 regulation of utility. It's one of the reasons why  
10 regulators aren't put there to manage the Utility,  
11 they're there to look at a -- to try to look at a high  
12 level.

13 The key concern I would have is -- is less  
14 with, you know, given the information that's been able to  
15 be reviewed, it's difficult to say that, you know, pick a  
16 year, in 2011/'12, IFF '07-1 is -- O&M costs are too high  
17 by \$3 million. To come to some sort of conclusion like  
18 that is very, very, very difficult to do.

19 What it's not difficult to do is to say,  
20 if you look at all of these IFFs on a chart, and now you  
21 imagine where IFF '08-1 might look, or '09-1, or '10-1,  
22 you -- you might have a concern that the pattern you're  
23 seeing is something that's continuing.

24 And -- and at that level the question  
25 becomes what -- what do we do to help make sure or help

1 -- help encourage that that same changes in the forecast  
2 isn't happening year over year, because it's -- it can be  
3 quite compounding and have -- have quite a -- a grand  
4 impact over time on -- on the overall level of financial  
5 performance and reserves.

6 MR. BYRON WILLIAMS: I'll come back to  
7 your words, "encourage" as well as "grand impact" in a --  
8 in a moment, Mr. Bowman, but let's -- let me direct you  
9 specifically to your evidence at page 2, line 30.

10 MR. PATRICK BOWMAN: Yes, I'm there.

11 MR. BYRON WILLIAMS: And I'll -- I'll  
12 just read this statement to you and you can con...

13 "When Hydro's costs escalate beyond  
14 levels with which the Board ought to  
15 have comfort [in brackets] (as they  
16 have in the present forecast) any  
17 higher rates approved by the Board for  
18 the purpose of building protection for  
19 ratepayers in the form of reserves do  
20 not arise -- arise as reserves as  
21 intended."

22 I read that to you correctly, Mr. Bowman?

23 MR. PATRICK BOWMAN: Yes.

24 MR. BYRON WILLIAMS: And that's the --  
25 the dilemma or the Catch-22 that you were referencing

1 yesterday, sir?

2 MR. PATRICK BOWMAN: Well, the Catch-22  
3 arises from that; it's the question of what do you do  
4 next? You have a choice with level of rates. Do you --  
5 do you raise them, grant the increase that's requested,  
6 lower them, you know, give no increase? It's a -- it's a  
7 -- the rate change becomes a difficult tool to use to  
8 react to that situation.

9 MR. BYRON WILLIAMS: And I'm going to  
10 come back to that point in -- in just a second, Mr. --  
11 Mr. Bowman, but perhaps if I might, I'd like to just  
12 direct your attention to -- for a couple minutes to MIPUG  
13 Number 3. Your res -- the response of MIPUG to the PUB  
14 Interrogatory Number 3.

15 MR. PATRICK BOWMAN: I'm there.

16 MR. BYRON WILLIAMS: And you might also  
17 want to refer to your evidence to page 14. Line 17 to  
18 20, Mr. Bowman.

19 You have those?

20 MR. PATRICK BOWMAN: Yes.

21 MR. BYRON WILLIAMS: Okay. And I'll --  
22 I'll come back to your thoughtful comments of just the  
23 last couple questions in -- in just a moment, but we --  
24 we have talked about OM&A expenditures, but I want to  
25 talk about capital just for a -- a moment or two (2).

1                   On page 14 of your evidence is an excerpt  
2 from line 6 to 20, from Board Order 143/'04.

3                   Is that right, sir?

4                   MR. PATRICK BOWMAN:    Yes.

5                   MR. BYRON WILLIAMS:    And you'll see  
6 starting at line 17 to 20, a concern expressed by the  
7 Board that Manitoba Hydro has not developed a threshold  
8 for capital expenditures and associated debt growth that  
9 considers all projects together with the health and  
10 financial stability of the -- the Company.

11                   Do you see that, sir?

12                   MR. PATRICK BOWMAN:    Yes, that's from  
13 Board Order 143/'04, yes.

14                   MR. BYRON WILLIAMS:    And I'm going to get  
15 to more specifics in a moment, in terms of capital  
16 spending not related to new transmission and generation,  
17 but in terms of that specific higher level concern by the  
18 Board in '04 about not developing a threshold for capital  
19 expenditures and associated debt growth, is that a  
20 concern that -- that you share, Mr. Bowman?

21                   MR. PATRICK BOWMAN:    I'm not sure that I  
22 would use the word "threshold" were I to express it,  
23 because it could be read different ways in terms of a,  
24 you know, a firm threshold as opposed to a test. There's  
25 always a need for -- for a certain level of balance, and

1 when I appear before Boards like this with utilities,  
2 this is always one of the challenging areas; is to  
3 support the overall level of -- of a capital program.

4 But if it's -- if threshold is meant to  
5 mean not a rigid barrier that one shall not go beyond,  
6 but -- but at least some -- some benchmarks against what  
7 you can target and understand, and -- and if someone is  
8 going beyond or is able to go below, you have some  
9 explanations for variance.

10 That -- that would be useful, and I think  
11 it's fair to express a concern, that we don't -- we don't  
12 have that in place as a target, that -- as far as I can  
13 tell, as a target that is managed to.

14 MR. BYRON WILLIAMS: And, thank you, Mr.  
15 Bowman. That's very helpful and maybe we'll drill down a  
16 little bit into the details in a -- in a second.

17 Turning now to the MIPUG's response to PUB  
18 Number 3, I want to direct your attention to lines --  
19 page 2 of 5 and line 29 through 34.

20 MR. PATRICK BOWMAN: Yeah, this probably  
21 expresses what I was just trying to say earlier a little  
22 more eloquently.

23 MR. BYRON WILLIAMS: Okay, well -- well  
24 let's walk our way through it.

25 Start at line 29. Your -- you're

1 expressly concerned, a particular note, is that:

2 "Over the -- more than a decade the  
3 Board has issued repeated qualitative  
4 directions recommendations, suasion to  
5 Hydro to maintain diligent control over  
6 capital spending not related to major  
7 new generation or transmission. There  
8 is no practical way to test whether  
9 this has been adopted by Hydro outside  
10 -- outside of qualitative assertions;  
11 is not clear that the Board and Hydro  
12 have resolved a suitable framework to  
13 quantify tests and guide Hydro's  
14 actions in this area."

15 That's your position Mr. Bowman?

16 MR. PATRICK BOWMAN: Yes, that -- that is  
17 a fair summary about the -- the lack of framework --  
18 what I was calling earlier the -- the threshold or the  
19 barrier, as opposed to the framework to assess. But yes,  
20 that -- that fairly summarizes it.

21 MR. BYRON WILLIAMS: And -- and I just  
22 wanted to focus on line 20 -- 20 -- 31, excuse me. The  
23 comment in this -- in this paragraph appears to be  
24 focussed on capital spending not related to major new  
25 generation or transmission.

1                   Is that fair, sir?

2                   MR. PATRICK BOWMAN:   Yes, we deal with  
3 this more going onto the next page where -- when you turn  
4 your mind to the different types of capital a utility  
5 undertakes, you want to think about it differently.

6                   You have like, for example, if there's a -  
7 - if there's a something -- something to be pursued and  
8 undertaken like an energy saving retrofit to a building  
9 or something, that's going to, you know, pay for itself  
10 over time or even pay for itself quickly, you'd hate to  
11 see something like that bumped and deferred because  
12 someone's trying to get their capital spending below a  
13 hard limit.  If it's got a business case, we pursue it  
14 differently and separately.  Major new generation would  
15 be a similar type of -- of consideration.

16                  MR. BYRON WILLIAMS:   So the issue that  
17 you're focussed on, in terms of capital control, is  
18 replacements and incremental expansions to the existing  
19 system, which -- which some might call sustaining  
20 capital?

21                  MR. PATRICK BOWMAN:   That's a word that  
22 is occasionally used, yes.

23                  MR. BYRON WILLIAMS:   And that's where  
24 your concerns are focussed, sir?

25                  MR. PATRICK BOWMAN:   Yes.



1                   MR. BYRON WILLIAMS:   And your concern  
2 specifically, is that there appears to be, in your view,  
3 no consistent top-down tests in place today for Manitoba  
4 Hydro?

5                   MR. PATRICK BOWMAN:   For -- for managing  
6 that level of spending, yes.

7                   MR. BYRON WILLIAMS:   What do you mean by  
8 top-down tests, sir?

9                   MR. PATRICK BOWMAN:   Well, it's -- I mean  
10 it in contrast to -- to bottom-up, to be sort of  
11 summarized at a high level.

12                               But when you talk about developing  
13 forecasts and -- and budgets and cost estimates, you can  
14 do it two (2) different ways. You can start at the  
15 goriest level of detail, if you like, determine every  
16 project and everything to do, and -- and add them all up  
17 and come to something at the end to determine your  
18 budget. That's what people typically refer to as bottom-  
19 up.

20                               You can also try to come up with some high  
21 level benchmarks and indices for -- for capital spending  
22 -- Hydro has referenced a capital coverage target -- but  
23 some high level references which would be top-down. It's  
24 not getting into the detail of all those individual  
25 projects. It's saying at a high level, notwithstanding

1 all that detail, we're going to try to manage the program  
2 to this level. That's what I mean by top-down.

3 MR. BYRON WILLIAMS: And you're not  
4 satisfied -- and we don't need to belabour it, but you're  
5 not satisfied with the capital coverage ratio as a top-  
6 down mechanism, correct?

7 MR. PATRICK BOWMAN: Well, I'm not  
8 satisfied it's being applied as a top-down mechanism as  
9 much as it seems to be applied as just a -- a statistics  
10 to track. I think that's the -- the key distinction.

11 There's also some -- some aspects of the  
12 capital coverage ratio that -- that one might want to  
13 consider carefully if you were using it for -- for a top-  
14 down means of tracking or control, because it's -- it's  
15 linked to cash and occasionally that has -- has certain  
16 variability in it. But outside of that, I'm not  
17 satisfied it's applied in that way, which is the key  
18 figure.

19 MR. BYRON WILLIAMS: Well, let me try  
20 this another way. If -- you've referenced later in this  
21 response a couple of different tools that one might  
22 employ: one (1) is the -- one (1) would be the -- BC  
23 Hydro sustaining capital ratio that they -- they used in  
24 the early part of this decade.

25 Would that be right, sir?

1                   MR. PATRICK BOWMAN:   That's one (1) we  
2 reference at page 4, yes.

3                   MR. BYRON WILLIAMS:   And you also  
4 reference a test employed by -- in Newfoundland, and I'm  
5 going to -- to shorthand it as the depreciation balance  
6 test. I don't know if you have a name for it or not, Mr.  
7 Bowman.

8                   MR. PATRICK BOWMAN:   Well, the  
9 depreciation test is not a bad name. Occasionally when  
10 I'm dealing with other utilities, they call it sort of  
11 the rate-based neutral level of spending; what -- what's  
12 the level of spending I would do to try to keep my  
13 overall rate base for those utilities that -- that are  
14 regulated that way at a consistent level.

15                   It's -- it's not -- that different at some  
16 levels than a capital coverage number or tar -- concept.  
17 The -- the key reason I thought it was useful to put in  
18 this quote from Newfoundland is -- is not in regards  
19 specifically to this as a -- as a radical concept but as  
20 how they are using it, which is to actually try to manage  
21 and justify the level of their -- of their capital  
22 program, not -- not just to sort of report as a  
23 statistic.

24                   MR. BYRON WILLIAMS:   Well, Mr. Bowman,  
25 just to get down to -- to brass tacks on -- on this

1 specific issue, your advice -- my -- my clients are  
2 obviously quite interested in this -- is your advice  
3 properly used, the capital coverage test?

4 Is your advice -- look to the BC example  
5 that you cite or that Newfoundland example? Where --  
6 where do you come down on this point?

7 MR. PATRICK BOWMAN: Well -- and any of  
8 the above could serve the purposes. And as you can well  
9 appreciate, since I work at times for utilities and at  
10 times for Intervenors, I'm very, very cautious about  
11 trying to express specific opinions on -- on the details  
12 of one (1) approach versus another, which -- which the  
13 management of the Utility has a -- has a far better  
14 specific knowledge of than -- than somebody who reviews a  
15 GRA every -- every few years.

16 But what I'm saying is that for those of  
17 us who do only the -- get the opportunity to review these  
18 things every few years rather than every day, we need  
19 something to go on to understand this level of capital  
20 spending and what is the appropriate level and -- and how  
21 does it relate to the overall growth in the Utility.

22 The reason a depreciation target is -- has  
23 some appeal is it effectively is saying, Outside of those  
24 special new things, I'm going to find a way that my  
25 overall capital or overall investment in the Utility

1 tracks downward over time, that I'm going to depreciate  
2 the assets. When I add new assets, fine, I'll add new  
3 assets and we'll grow. But outside of that I'm going to  
4 track -- track downward or at least hold steady over  
5 time, which would be the sort of normal understanding.  
6 The -- outside of major periods of expansion you're --  
7 you're not expanding.

8 MR. BYRON WILLIAMS: Thank you for that  
9 thoughtful answer, Mr. Bowman

10 You used -- do you recall using the words  
11 "Catch-22" yesterday?

12 MR. PATRICK BOWMAN: Yes.

13 MR. BYRON WILLIAMS: Mr. Chairman, I am  
14 going to be coming to a hypothetical in a -- in a couple  
15 minutes and it might be a good time -- I'm -- I'm leading  
16 into that area now, so -- I know My Learned Friend does  
17 not object, so it's -- and -- and I'm actually on top of  
18 my exhibit numbers so we'll call it Coalition Number 39  
19 and ask Mr. Gaudreau to -- to distribute it. I -- I can  
20 continue to talk because we're not quite there yet so.

21 THE CHAIRPERSON: Thank you. You said  
22 Exhibit 39?

23 MR. BYRON WILLIAMS: Coalition 39, Mr.  
24 Chairman.

25 THE CHAIRPERSON: Very good.

1 --- EXHIBIT NO. COALITION-39: A Hypothetical: The  
2 Regulator's Dilemma

3

4 MR. BYRON WILLIAMS: I want to make  
5 clear, it's -- I'm not suggesting that it's this  
6 regulator's dilemma. It's a hypo --

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

9 MR. BYRON WILLIAMS: It's a hypothetical.  
10 You may have no dilemmas, but I'm trying to -- to follow-  
11 up on one of Mr. Bowman's comments, and I'll get to that  
12 in a couple of seconds.

13

14 CONTINUED BY MR. BYRON WILLIAMS:

15 MR. BYRON WILLIAMS: Mr. Bowman, it might  
16 be your dilemma though so I'm going to walk -- walk  
17 through it -- come to it in just a couple of seconds.  
18 But just to summarize, as I understand it -- and we're  
19 not on the hypothetical yet, Mr. Bowman; we're just --  
20 we're getting there.

21 But what we chatted about this morning, in  
22 terms of the -- the two (2) central drivers in the  
23 Corporation not achieving its preferred debt/equity  
24 target of 75:25, you've identified increased capital  
25 expenditures and increased OM&A relative to forecast.

1                   Those are two (2) central drivers,  
2 correct, sir?

3                   MR. PATRICK BOWMAN:   Yes, although I  
4 should just note that there are two (2) central drivers,  
5 but when you measure 75:25 on the overall company, you're  
6 looking at capital, both what we call sustaining capital,  
7 as well as new -- new project capital. And so there are  
8 probably three (3) drivers if you really want to get your  
9 mind around it: the -- the major projects, sustaining  
10 capital, and O&M.

11                  MR. BYRON WILLIAMS:   And of those three  
12 (3) drivers, two (2) of them, sustaining capital and  
13 OM&A, are ones in which you said traditionally they're  
14 considered to -- to be more within the control of the  
15 Utility; not perfectly, but more within the control in  
16 terms of expenditure control, correct?

17                  MR. PATRICK BOWMAN:   Yes, that would be a  
18 normal understanding, yes.

19                  MR. BYRON WILLIAMS:   And as we look  
20 forward, I asked you whether one (1) should be -- oh, Mr.  
21 Bowman, go ahead.

22                  MR. PATRICK BOWMAN:   I -- I just want to  
23 clarify that last answer if you don't mind.

24                  All three (3) of the items are within the  
25 control of the Utility that you've referenced: major

1 capital, sustaining capital, and O&M. The -- the two (2)  
2 that you noted for me, O&M and sustaining capital, are  
3 more within the control of the Utility than other items  
4 not on that list, like water rentals or taxes or overall  
5 level of revenues.

6 But I -- I didn't want to distinguish  
7 control of sustaining capital, but no control of new  
8 projects.

9 MR. BYRON WILLIAMS: So we've got three  
10 (3) major drivers we've agreed on, and -- and relative to  
11 -- to other factors, all three (3) of them are relatively  
12 more within the control of the Corporation than others  
13 such as water rentals, correct?

14 MR. PATRICK BOWMAN: That's correct.

15 MR. BYRON WILLIAMS: And you've also  
16 indicated that when we look at the Corporation's  
17 forecasts going forward, you're not going to say with a  
18 specific year that you're -- you're going to take issue  
19 with 3 million here or 3 million there, but you have some  
20 level of discomfort with the past trend, and also with  
21 where the Corporation is projecting in the future in  
22 terms of some of these key drivers.

23 Is that right, sir?

24 MR. PATRICK BOWMAN: Yes. And in  
25 particular how -- to what extent we might see IFF '08-1



1 and '09-1 reflect a sort of sustained trend as we've seen  
2 in the last few.

3 MR. BYRON WILLIAMS: And why you're  
4 concerned and you mentioned this about ten (10) minutes  
5 ago is over time there can be a relatively, to use your  
6 words, "grand impact" on the -- on the bottom line of the  
7 Corporation from adverse trends such as these.

8 MR. PATRICK BOWMAN: Well, that -- that's  
9 for sure one (1) of the reasons. The other one (1) is it  
10 calls into question Hydro's ability to forecast. But --  
11 but the -- in respect of the mathematical impact, if --  
12 if IFF '08-1 shifts the line upward another step and '09-  
13 1 shifts it upward another step, wait till we see that  
14 impact start to come out.

15 MR. BYRON WILLIAMS: So one (1) of the  
16 challenges based upon that -- those observations, not if  
17 -- you've used the word -- how do you encourage -- a  
18 utility to a -- to a -- to temper those -- those trends,  
19 to bring them back into line?

20 Is that right, sir?

21 MR. PATRICK BOWMAN: Correct.

22 MR. BYRON WILLIAMS: To use Mr. Williams'  
23 words again, you want to help the Corporation to put its  
24 hair back up, financially? You're not going to go with  
25 me on that?

1                   So in terms of encouraging the  
2 Corporation, one (1) way to do so would be to provide  
3 them with a lower than sought for rate increase.

4                   Would you agree with that, Mr. Bowman?

5                   MR. PATRICK BOWMAN:   Well that -- it  
6 would be normally understood that a regulator would  
7 review these types of costs if it was not comfortable  
8 with the costs as forecast.  It would not arrive at the  
9 same rate increase that the Utility calculated.

10                  And, as a result, if the Utility indeed  
11 was looking to retain its net income or its return to its  
12 shareholder, as you'd see under a private sector model,  
13 they'd have to deal with their hair, as you say.

14                  MR. BYRON WILLIAMS:   Thank you for that  
15 modest concession on a probably -- a very poor analogy,  
16 Mr. Bowman.

17                  MR. ROBERT MAYER:   How long are we going  
18 to continue on that, what I perceive to be this sexist  
19 analogy here?

20                  MR. BYRON WILLIAMS:   Mr. Mayer, we're  
21 going to just run away from it as fast as I can after  
22 that comment.

23

24 CONTINUED BY MR. BYRON WILLIAMS:

25                  MR. BYRON WILLIAMS:   Let's go to the

1 Coalition 39, Mr. Bowman.

2

3

(BRIEF PAUSE)

4

5 MR. BYRON WILLIAMS: And, again, I'm not  
6 suggesting this is the -- the -- any particular regulator  
7 or Board member's perspective but again, you mentioned  
8 yesterday the topic of a Catch-22.

9

Correct, sir?

10

MR. PATRICK BOWMAN: That's correct.

11

12 MR. BYRON WILLIAMS: And I'm going to  
13 ask you to make three (3) assumptions with me, and  
14 hopefully you'll agree to that but, first of all, this is  
15 a -- we're -- you're a regulator, Mr. Bowman, dealing  
16 with the Crown owned monopoly insurer regulated under  
17 cost -- under a cost of service model -- and the Utility  
18 has come to you and requested a 2.9 percent rate increase  
19 to continue progress towards meeting its debt/equity  
20 target.

20

You're prepared to make that assumption?

21

22 MR. PATRICK BOWMAN: I'll make the  
23 assumption with the caveat that I don't generally deal  
24 with insurers, but -- but all -- I can accept the preface  
25 that you are trying to set-up.

25

MR. BYRON WILLIAMS: Let me -- let me --

1 I meant to say Hydro company, so let's -- I apologize for  
2 that. We'll change that word to Hydro.

3 Second assumption, that the regulator  
4 again does not believe that the Hydro company's forecast  
5 OM&A costs are reasonable and necessary and prudent.

6 You're prepared to make that assumption,  
7 sir?

8 MR. PATRICK BOWMAN: Yes.

9 MR. BYRON WILLIAMS: And third, the  
10 regulator is of the view that the current reserves need  
11 to be enhanced to protect against certain risks.

12 You're prepared to make that assumption?

13 MR. PATRICK BOWMAN: Yes.

14 MR. BYRON WILLIAMS: Now, Mr. Bowman, as  
15 I understand your catch 22 position or what I've called  
16 the dilemma -- there's two (2) or three (3) options to  
17 the regulator available to it. One (1) is, it could  
18 provide the sought after rate increases or, in fact, even  
19 more in -- for the purposes of enhancing reserves.

20 You'll agree that that's one (1) option it  
21 could consider?

22 MR. PATRICK BOWMAN: Yes.

23 MR. BYRON WILLIAMS: And, theoretically,  
24 based upon these assumptions, one (1) of the challenges  
25 with that sort of option would be that it -- it might be

1 considered to be implicitly endorsing excessive  
2 expenditures.

3 You'll agree with that?

4 MR. PATRICK BOWMAN: Well, if that's the  
5 only -- only decision it made, assuming that was standing  
6 alone, yes.

7 MR. BYRON WILLIAMS: If it chose to send  
8 a stronger message to encourage the Corporation to -- the  
9 Hydro corporation -- to reign in OM&A expenditures, it  
10 could also consider the option of providing less than a  
11 sought after rate increase, with the objective of  
12 encouraging future expenditure control.

13 You'll agree with that?

14 MR. PATRICK BOWMAN: Yes.

15 MR. BYRON WILLIAMS: But the dilemma is  
16 that that option might be considered to be potentially  
17 delaying the achievement of enhanced reserves.

18 You'll accept that?

19 MR. PATRICK BOWMAN: Yes, it might be --  
20 it might be ill-advised for that reason.

21 MR. BYRON WILLIAMS: Is that the Catch-22  
22 you were speaking of or dilemma, Mr. Bowman, yesterday?

23 MR. PATRICK BOWMAN: That is it,  
24 precisely, Mr. Williams, and it's the kind of thing that  
25 might keep me up at night if I was a regulator.

1                   MR. BYRON WILLIAMS:   Well, it's kept me  
2 and my clients up, Mr. Bowman, particularly me.  And  
3 really one (1) of the points you make in your -- your  
4 evidence is that a simple continued result of higher  
5 domestic rate levels doesn't provide us with any real  
6 assurance of actual improvements in retained earnings.

7                   Is that fair, sir?

8                   MR. PATRICK BOWMAN:   If that is the sole  
9 practical decision or -- or impact that the regulator  
10 has, that's correct.

11                  MR. BYRON WILLIAMS:   And so just to -- to  
12 finish up on this point, the point that you've made in  
13 your evidence is that the -- retained earnings can only  
14 be built to the extent that two (2) conditions are met.  
15 First of all, you either enhance or maintain revenues,  
16 and secondly that you limit operating to capital-related  
17 expenditures.

18                  Would that be fair, sir?

19                  MR. PATRICK BOWMAN:   Yes.

20                  MR. BYRON WILLIAMS:   I just want to turn  
21 to a -- a I'd consider it certainly a related top  
22 subject, the actual validity or merit of the 75:25  
23 debt/equity target for the purposes of rate setting.  And  
24 you've expressed a concern, Mr. Bowman, that for the  
25 purposes of rate-setting, it's no longer a valid tool.

1                   Is that fair?

2                   MR. PATRICK BOWMAN:   Well, if you have to  
3 make a rate decision at a given point in time, I would  
4 say the evidence is that it's not a particularly useful  
5 tool if it's designed to be some sort of long-term  
6 achievement thing.  If, indeed, you can end up with  
7 different rate decisions, you know, two (2) months apart  
8 because it rained last week or something, it -- it's --  
9 it does not seem to be serving the purpose for which  
10 people are trying to use it.

11                  MR. BYRON WILLIAMS:   Mr. Bowman, just on  
12 that point, and -- and I won't belabour it, but you  
13 discussed yesterday about the significantly increased  
14 debt level that the Corporation is likely to incur as a  
15 result of major expansions, including Conawapa.

16                  Do you recall that, sir?

17                  MR. PATRICK BOWMAN:   I recall that.

18                  MR. BYRON WILLIAMS:   So when we look at a  
19 debt/equity equation recognizing that there's likely to  
20 be significant additions to the -- to the debt side of  
21 that equation, in the absence of either increased  
22 revenues or increased rates, that debt/equity level will  
23 -- will fall, by which I mean that the relative  
24 proportion of equity with the client.

25                  Is that right, sir?

1                   MR. PATRICK BOWMAN:    Yes, that would be  
2 the relationship.

3                   MR. BYRON WILLIAMS:    In an -- in an era  
4 of perpetually or -- excuse me, let me rephrase that --  
5 in a era where debt is expected to continue to grow, do  
6 you see the -- the -- the debt/equity target, something  
7 like 75:25 acting almost as a perpetual justification to  
8 raise rates, even if forecast expenditures are not  
9 prudent, reasonable, or necessary?

10                   See the risk of that?

11                   MR. PATRICK BOWMAN:    Well, in a sense I  
12 -- I may suggest it's even broader than that, whether  
13 expenditures are prudent, reasonable or necessary. Using  
14 a -- a debt/equity target, in an environment like that,  
15 is -- I would say leads to the potential that at any  
16 given point in time you end up with -- with sort of an  
17 undefinable concept of making sufficient progress --  
18 what is sufficient progress.

19                   We've expressed real concern with the  
20 debt/equity target for three (3) reasons. One (1) is the  
21 stability reason we talked about. It doesn't -- it  
22 hasn't proven to yield long-term stability like you would  
23 think a long-term target would.

24                   It's proven to yield this sort of -- of  
25 bouncing around of -- of requests. It's not particularly



1 meaningful as a target if it's not going to be achieved  
2 for decades, particularly it's not meaningful as a target  
3 in setting rates at any given year. It could be  
4 converted into that in some way if someone defines some  
5 sort of track towards it, but it's not particularly  
6 meaningful for that.

7                   And -- and third, in a sense, if you -- if  
8 you wanted it not to be decades until you achieved it,  
9 you want to suggest it could be achieved, it's actually a  
10 bit of a -- of bitter-sweet achievement because it only -  
11 - it can only be achieved in the type of time frames that  
12 are -- that we think about in this room.

13                   You know, maybe ten (10) to twenty (20)  
14 years if, indeed, today's ratepayers are -- are ponying  
15 up fairly substantial amounts of equity through higher  
16 rates than they would have had to pay for putting  
17 Conawapa's and Keeyask's and -- and other assets into  
18 service that are being advanced in large part for -- for  
19 export even if the -- the first kilowatt hour -- the few  
20 first kilowatt hours out of them are required for  
21 domestic service.

22                   The -- the -- the decision to go with  
23 major projects of that sort hinges on the exports.

24                   MR. BYRON WILLIAMS: I'll come to that  
25 last point in just a second. And let me try and rephrase

1 my question. Perhaps I can get you to stand in the shoes  
2 of a Utility like Manitoba Hydro.

3           You could see, from the perspective of a  
4 Utility like Manitoba Hydro, how a 75:25 debt/equity  
5 target, in a period of rapidly expanding debt, might be  
6 attractive because it would serve as a perpetual  
7 justification for rate increases.

8           Could you understand that?

9           MR. PATRICK BOWMAN: I would say it might  
10 be attractive to a Utility in any event regardless of the  
11 impact on -- on rate changes because it gives them things  
12 to -- to cite as targets and to try to consider and  
13 manage to over -- over the long term and forecast.

14           It's -- it's not -- it's not something I  
15 would be critical of a Utility trying to think about in  
16 conducting its affairs.

17           MR. BYRON WILLIAMS: Okay, fair enough.  
18 The -- I have a few more questions in this area. Just  
19 one (1) very quick one. Perhaps you could turn to page 4  
20 of your evidence, Mr. Bowman.

21           Page 4 of your evidence, line 19.

22           MR. PATRICK BOWMAN: Yes.

23           MR. BYRON WILLIAMS: There's a reference  
24 there just immediately above to the MIPUG membership, and  
25 there's a suggestion that the MIPUG companies annually

1 purchase small point electricity at a cost of over \$100  
2 million from Hydro.

3 Do you see that, Mr. Bowman, first of all?

4 MR. PATRICK BOWMAN: Yes.

5 MR. BYRON WILLIAMS: In terms of that  
6 just -- I was interested in the figure of over 100  
7 million because it lacked your usual precision. Let's  
8 take the '06/'07 year and within 10 million is a -- is a  
9 nice range. What do you mean by over 100 million?  
10 Are you talking less than 150 million for example?

11 MR. PATRICK BOWMAN: Well first I -- I  
12 would say I don't -- I don't have those numbers here. If  
13 I did it would -- MIPUG members make up by far the -- the  
14 bulk of the GS large greater than 100 kV class.

15 There are a couple of members of that  
16 class who are not members of MIPUG, but if you wanted to  
17 get a sense of the range, you can look to the revenues  
18 and the Cost of Service Study for -- for the class and  
19 MIPUG members are the bulk of that.

20 I think even if I was able to come up with  
21 a number, by exclusion, it would be suggesting things  
22 about the minority of customers in terms of numbers that  
23 probably go beyond what -- what we typically share in  
24 this -- in this room.

25 But I can give you the revenues for that

1 GS large greater than 100 kV class if that's helpful to  
2 you.

3 MR. BYRON WILLIAMS: Well, Mr. Bowman,  
4 just

5 -- can -- is it less than 150 million or -- or more?

6 MR. PATRICK BOWMAN: My understanding is  
7 it would be below a hundred and fifty (150).

8 MR. BYRON WILLIAMS: Less than a hundred  
9 and thirty (130)?

10 MR. PATRICK BOWMAN: Now you're getting  
11 closer to where I couldn't say precisely.

12 MR. BYRON WILLIAMS: Okay, we will come  
13 back to that a little later.

14 MR. PATRICK BOWMAN: And do you mean  
15 before or after the 2.9 percent rate?

16 MR. BYRON WILLIAMS: I was talking  
17 '06/'07, Mr. Bowman. Mr. Bowman, perhaps you can turn to  
18 page 2 of your evidence, line 18.

19 And I'm not going to -- and there's a --  
20 there's a point you make there, which I think you just  
21 reiterated just a couple of seconds ago, essentially that  
22 either -- and I'm going to paraphrase -- either current  
23 debt/equity targets would not be reached for decades, or  
24 in the event they are attained that'll indicate that  
25 current ratepayers are seeing rate -- rate increases

1 related to major new capital projects advanced for export  
2 reasons contrary to clear policy objectives.

3 That's the point you're trying to make,  
4 Mr. Bowman?

5 MR. PATRICK BOWMAN: That is the -- two  
6 (2) out of the three (3) reasons why I say that this  
7 Board might have a concern about having a primary focus  
8 on the debt/equity ratio in -- in terms of focusing on  
9 setting domestic rate levels.

10 MR. BYRON WILLIAMS: And I want to  
11 explore that statement a little bit later, especially in  
12 terms of your -- some of your comments that you've made  
13 about Wuskwatim in the course of your oral and written  
14 evidence.

15 And just starting with Wuskwatim, you'll  
16 recall that it was advanced from its due date for -- for  
17 the purposes of seeking opportunities in the export  
18 market.

19 Does that -- is that fair, sir?

20 MR. PATRICK BOWMAN: From what I recall  
21 of the filing it was a project that would have otherwise  
22 been -- been Hydro's next project. It would have  
23 constructed sometime around 2020 based on the forecasts  
24 at the time, and -- and they advanced it, at the time, as  
25 I recall, to 2009 was the original target or -- but now

1 we're talking a little bit later than that.

2 But the idea of the advancement was, put  
3 it in service sooner to capture export opportunities.

4 Is that a fair summary for what -- your  
5 purposes?

6 MR. BYRON WILLIAMS: If that's your  
7 understanding, that will work for me as well, Mr. Bowman.

8 And in terms of the advancement and -- and  
9 in going back to you -- your quote about policy  
10 objectives -- in terms of the advancement, it was  
11 certainly recognized that when -- when you're putting in  
12 a project of the magnitude of Wuskwatim, there might be  
13 some impact in the short term on the Corporation's  
14 debt/equity ratio and interest coverage ratios.

15 You'll -- you'll agree with that, sir?

16 MR. PATRICK BOWMAN: Absolutely. That  
17 was Hydro's -- we -- we actually put in the quote of  
18 Hydro's in -- in a footnote in our evidence at page 10  
19 and it -- this is from the -- what was known as the end-  
20 fact filing, "The Need For and Alternatives To The  
21 Wuskwatim Project" which said:

22 "Temporary increases to the  
23 Corporation's debt/equity ratio and  
24 decreases to the level of interest  
25 coverage which may occur in the early

1                   years of the project are judged to be  
2                   manageable without impacting the  
3                   Corporation's financial stability or  
4                   requiring offsetting increases to  
5                   domestic rates."

6                   That was -- so it's -- it's the same -- I  
7 think they're -- it's quoting Hydro saying the same thing  
8 that you are.

9                   MR. BYRON WILLIAMS:    So and -- and of  
10 course and you -- you said this yesterday so I won't go  
11 over it, but that also was the sentiment of the Clean  
12 Environment Commission, the extent that Hydro -- the --  
13 the case for advancement was contingent upon its being  
14 able to maintain its commitment that domestic ratepayers  
15 not experience rate increases as a result of the project.

16                   That's fair, sir?

17                   MR. PATRICK BOWMAN:    Well, I'll put it  
18 precisely, since I'm sure you've reviewed the footnotes  
19 of our evidence in detail.  It was the quote at page 16  
20 of the Clean Environment Commission report:

21                   "The Commission's support for the  
22 projects is contingent on Manitoba  
23 Hydro being able to maintain its  
24 commitment that domestic ratepayers  
25 will not experience rate increases as a

1 result of the projects."

2 MR. BYRON WILLIAMS: Now, and just on  
3 this -- this point, Mr. Bowman, and I just want to see  
4 where -- where you're coming down on this point, and,  
5 again, to start with, without asking you to elaborate, do  
6 you recall suggesting yesterday in your oral evidence in  
7 the context of the 75:25 debt/equity target that we, and  
8 I'm trying to quote here?

9 "We were effectively coming close to  
10 raising rates for Wuskwatim."

11 Do you recall making that statement?

12 MR. PATRICK BOWMAN: I think it's  
13 actually written in our evidence and I could find it if  
14 it helps you.

15 But when you look at the mathematics of an  
16 IFF and the idea behind the debt equity target, there's a  
17 certain point where progress towards 75:25 and achieving  
18 75:25 during a period where Wuskwatim has been put into  
19 service but has yet to generate any of its own equity, by  
20 definition means other ratepayers have -- have put up the  
21 equity. That's -- if -- if I -- I think is at that level  
22 is just a mathematical relationship.

23 The question is whether the 2.9 percent is  
24 indeed driven by that, and whether one would need to  
25 develop a Wuskwatim without Wuskwatim sort of scenarios



1 and see whether you'd similarly justify the 2.9 percent.  
2 I -- I suspect given everything else that's around here,  
3 in the evidence that's here, 2.9 percent may be justified  
4 whether Wuskwatim was there or not, so that one (1)  
5 wouldn't say that this particular rate increase is being  
6 driven by Wuskwatim, but the horizon of rate increases in  
7 the IFF would -- may start to raise some concern.

8 MR. BYRON WILLIAMS: And that's the point  
9 I just wanted to take you to. You make the point -- and  
10 you don't need to turn there, but it's at page 17 if --  
11 if you wish -- that it's not apparent in the materials  
12 file -- filed by Hydro that the series of 2.9 percent  
13 increase is forecast until 2017/'18 are not in effect  
14 being driven by Wuskwatim.

15 Is that still your position, sir?

16 MR. PATRICK BOWMAN: Well, recognizing  
17 the double-negative in the sentence, it is still my  
18 position.

19

20 (BRIEF PAUSE)

21

22 MR. BYRON WILLIAMS: You're not prepared  
23 to say that this rate increase is being driven by  
24 Wuskwatim. If Hydro was back in with a two point nine  
25 (2.9) next year, you might go that far, Mr. -- Mr.

1 Bowman?

2 MR. PATRICK BOWMAN: Well, at -- it's --  
3 at some point in IFF '07-1 horizon if it unfolds as -- as  
4 is set out there, that will probably become a more  
5 important test in -- in future hearings, to the point  
6 where Wuskwatim is -- is effectively covering it's own  
7 costs, if you like. Or -- or at least the Wuskwatim  
8 Limited Partnership is -- is performing the way that --  
9 that one expects it to over the long term.

10 MR. BYRON WILLIAMS: Okay. Mr. Chairman,  
11 I've got about, I'm guessing twenty (20) minutes left,  
12 maybe a half an hour.

13 THE CHAIRPERSON: Well, we'll take the  
14 lunch break then, and we'll come back refreshed. We'll  
15 see you all at 1:15.

16  
17 --- Upon recessing at 11:57 a.m.

18 --- Upon resuming at 1:21 p.m.

19

20 THE CHAIRPERSON: Okay, Mr. Williams.

21 MR. BYRON WILLIAMS: Yeah, I've just  
22 added a thirty (30) minute cross-examination on ethanol,  
23 Mr. Chairman, so...

24

25 (BRIEF PAUSE)

1 CONTINUED BY MR. BYRON WILLIAMS:

2 MR. BYRON WILLIAMS: I won't repeat all  
3 my poor jokes that -- Ms. McLaren -- Mr. McLaren...

4

5 (BRIEF PAUSE)

6

7 MR. BYRON WILLIAMS: I'm in the wrong  
8 hearing again, Mr. McLaren. I said the Manitoba Public  
9 Insurance should -- you'll accept my apologies?

10 I've been talking to Mr. Bowman for quite  
11 a while. I'll -- I'll give you a couple of minutes if I  
12 might. Mr. Bowman, feel free to jump in if -- if the  
13 need arises.

14 But you, Mr. McLaren, you've heard my  
15 discussion with Mr. Bowman and -- and you've heard his  
16 views about the appropriateness of using a debt/equity  
17 ratio for rate setting purposes going forward.

18 You've heard that, sir?

19 MR. ANDREW MCLAREN: Yes, I have.

20 MR. BYRON WILLIAMS: Let's assume for a  
21 moment that the -- that the regulator still sees some  
22 value in using a debt/equity ratio for some regulatory  
23 purposes.

24 You're prepared to make that assumption  
25 for a second, sir?

1 MR. ANDREW MCLAREN: I can go with you  
2 there, yes.

3 MR. BYRON WILLIAMS: Okay. And you're  
4 aware that one (1) way a regulator might use to kind of  
5 check the reasonableness of a utility's debt/equity  
6 target might be through an examination of how bond-rating  
7 agencies look at the debt/equity status of the  
8 Corporation such as Standard & Poor's?

9 MR. ANDREW MCLAREN: I would think that's  
10 fair, yes.

11 MR. BYRON WILLIAMS: And another way that  
12 you might test the reasonableness of a debt/equity target  
13 might be to look at the practice of other activities.

14 You'll accept that?

15 MR. ANDREW MCLAREN: I will.

16 MR. BYRON WILLIAMS: You're aware, for  
17 example, that Manitoba Hydro from time to time has  
18 referred to the debt/equity ratio of utilities such as BC  
19 Hydro, as communicated through BC Hydro's annual reports,  
20 is a purported reasonableness check of its ratios?

21 MR. ANDREW MCLAREN: I'm aware that at  
22 times Manitoba Hydro has referred to BC Hydro in that  
23 respect, yes.

24 MR. BYRON WILLIAMS: And you're aware as  
25 well, are you not, that if you went for example to the BC

1 Hydro annual report, let's say for whatever year, 2006 or  
2 2007, you'd see a calculation suggesting that the  
3 debt/equity rate for BC Hydro was about 70 percent debt  
4 and 30 percent equity?

5 Would that be fair?

6 MR. ANDREW MCLAREN: That would be fair.  
7 And I -- I think we even provided an exhibit, MIPUG-8,  
8 that sort of highlighted some of those, yes.

9 MR. BYRON WILLIAMS: And that's -- and we  
10 don't need to turn there but that's -- your -- based upon  
11 your work in preparing MIPUG Number 8, you're aware that  
12 in BC Hydro in calculating its equity in -- in its -- for  
13 the purposes of its debt/equity calculation would include  
14 material contributions from sources such as the Columbia  
15 River Treaty?

16 Would that be fair, sir?

17 MR. ANDREW MCLAREN: Those contributions  
18 are included in the equity portion of the calculation,  
19 yes.

20 MR. BYRON WILLIAMS: And would you  
21 accept, subject to check, that for the Columbia River  
22 Treaty in 2006 the contribution was about 175 million?

23 MR. ANDREW MCLAREN: That number seems  
24 reasonable, yes.

25 MR. BYRON WILLIAMS: And for the purposes

1 of the fiscal year ending March 31st, 2007 the  
2 contribution was \$166 million.

3 MR. ANDREW MCLAREN: I can accept that  
4 number as well, yes.

5 MR. BYRON WILLIAMS: Without asking you  
6 to elaborate, at a high level are you aware of any  
7 directive or order in council issued by the BC Government  
8 in January of 2008, amending the BC Hydro definition of  
9 equity for regulatory purposes?

10 MR. ANDREW MCLAREN: I -- I'm aware of  
11 such a directive. I wouldn't say that I've reviewed it  
12 in detail and it's not something we've relied on in our  
13 evidence.

14 MR. BYRON WILLIAMS: And I won't go too  
15 far down that path, but again without elaborating, would  
16 it be your understanding that under the amended  
17 definition of equity, items such as a contribution from  
18 the Columbia River Treaty would no longer be taken into  
19 the calculation of equity -- no longer taken into  
20 account?

21 MR. ANDREW MCLAREN: That's my  
22 understanding of that directive, yes.

23 MR. BYRON WILLIAMS: Thank you. Mr.  
24 McLaren, I've -- now that I've got your name correct, I  
25 hope anyways, just a couple questions. I believe in your

1 qualifications' stage of your direct evidence, you  
2 indicated that you were involved in the -- assisting in  
3 the development of the joint proposal by industrials and  
4 the Utility company in Newfoundland, with regard to an --  
5 a proposal regarding inverted rates.

6 Is that correct, sir?

7 MR. ANDREW MCLAREN: Yes, that's correct.

8 MR. BYRON WILLIAMS: Could you advise as  
9 to the status of that proposal?

10 MR. ANDREW MCLAREN: There was a report  
11 filed with the Newfoundland Public Utility's Board in I  
12 believe February of this year, but the rate is not  
13 currently in place as of yet.

14 MR. BYRON WILLIAMS: In terms of the  
15 report filed in February of 2008 is that in the public  
16 domain, sir?

17 MR. ANDREW MCLAREN: Yes it is.

18 MR. BYRON WILLIAMS: Through your  
19 counsel, Ms. McCaffrey, I wonder if -- if you'd agree to  
20 undertake to provide that in this Hearing. I think it  
21 would be of some interest to my clients.

22 MR. ANDREW MCLAREN: I can provide  
23 copies, yes.

24 We'll take -- we'll take that as an  
25 undertaking, I take it? Okay.

1 --- UNDERTAKING NO. 93: MIPUG to provide Coalition  
2 with report filed with the  
3 Newfoundland Public Utility's  
4 Board in February of 2008  
5

6 CONTINUED BY MR. BYRON WILLIAMS:

7 MR. BYRON WILLIAMS: Mr. Bowman, back to  
8 you. And just very quickly -- again you don't need to --  
9 to turn here, but at page 38 of your evidence, you made  
10 reference to BCUC Order G11-07 and the rate re-balancing  
11 plan over three (3) years.

12 Do you recall that, sir?

13 MR. PATRICK BOWMAN: Yes.

14 MR. BYRON WILLIAMS: And as I understand  
15 your -- your evidence this morning, you were indicating  
16 that the BC Government has taken some steps to extinguish  
17 the rate re-balancing aspects of that -- that Order.

18 Would that be fair, sir?

19 MR. PATRICK BOWMAN: Yes.

20 MR. BYRON WILLIAMS: It's filed -- and  
21 I'm not sure if the name matters, but it's filed or it's  
22 tabled in the BC lett -- Legislature, the Utility's  
23 Commission Amendment Act.

24 Would that be fair -- or your  
25 understanding, sir?



1 MR. PATRICK BOWMAN: It -- it is. I'm  
2 not aware of the exact status of it. I know it had --  
3 had made it to a third reading, but beyond that I'm not  
4 sure, in terms of proclamation or anything of the sort.  
5 But what I can advise is, once the BCUC made it's  
6 decision in respect of rate re-balancing to occur over  
7 three (3) years, the Minister advised them that they  
8 intended to pass legislation which would prevent rate  
9 changes related to re-balancing, because of other factors  
10 that were driving rates at the time. And as a result the  
11 BCUC accepted a review in variance of its own Order.

12 So that -- whether -- whether the  
13 legislation has passed I guess, is -- what I'm trying to  
14 say, it's not relevant to the -- to the BCUC's decision,  
15 because at this point it's been -- it's -- they've  
16 neutered their own order -- or they've mended their own  
17 order, in any event.

18 MR. BYRON WILLIAMS: Thank you -- thank  
19 you for that. And you're probably about two (2) readings  
20 ahead of me in terms of my knowledge of the legislation,  
21 so I thank you for that.

22 Just out of curiosity, when -- when I leaf  
23 through that piece of legislation at Section 64.04, I saw  
24 a reference to the implementation of a smart metering  
25 project by 2012.

1                   Do you -- do you have any knowledge of  
2 that, Mr. Bowman?

3                   MR. PATRICK BOWMAN:   Not much.  I do know  
4 that the legislation that was tabled in BC was broader  
5 than just a -- a no re-balancing legislation.  It did  
6 deal with the no re-balancing topic, as you talk about;  
7 no re-balancing for two (2) years.  And then once re-  
8 balancing occurred, no more than two (2) percentage  
9 points per year thereafter.  So -- so decent guidance on  
10 the re-balancing.

11                   But it was a broader piece of legislation  
12 to deal with what BC considered their primary concern at  
13 the time, which was energy self-sufficiency, insuring  
14 that BC produced enough energy in the province to supply  
15 the province, which it doesn't currently do.  So, the  
16 fact that -- that legislation also includes terms on --  
17 on resource plans, DSM, and smart metering would be  
18 consistent with that -- my understanding.

19                   MR. BYRON WILLIAMS:   Okay.  And I'll  
20 leave that to the reading pleasure of others.  I  
21 appreciate that.  Hopefully, a short snapper question, it  
22 can go to either Mr. Bowman or Mr. McLaren.

23                   In terms of customer service costs, would  
24 it be your view that the incremental cost of adding a new  
25 industrial customer is the same as the average cost as

1 expressed in the Cost of Service Study?

2 Do you want me to repeat that?

3

4 (BRIEF PAUSE)

5

6 MR. PATRICK BOWMAN: It's not something  
7 we spend a lot of time thinking about, given that  
8 customer service costs are -- make up a very small  
9 component of the rates that industrials pay, and are  
10 primarily related to things like -- like billing and --  
11 and adding new staff. But to the extent it's relevant, I  
12 -- I would imagine that they're not that different than  
13 the average, but I -- I couldn't say with any real  
14 certainty.

15 MR. BYRON WILLIAMS: So your view would  
16 be that they would be about the same.

17 Is that correct?

18 MR. PATRICK BOWMAN: Well, these costs  
19 make up, you know, maybe 1 percent of what -- what  
20 comprises the rates to industrial customers. So in terms  
21 of how adding a new customer would impact the class and  
22 the customer service costs, it wouldn't -- it wouldn't be  
23 in a number that -- that makes very much difference.

24 I think others may know more about that  
25 this than I do, but when you have a very large customer

1 of that sort, they have a fairly active customer service  
2 relationship with the Utility. They have key account  
3 representatives and so adding a customer adds a need for  
4 key account representatives. And they have, you know,  
5 the billing takes a certain amount. A new customer's  
6 billing in terms of operating and maintenance costs would  
7 be probably not that different than a current customer's  
8 billing.

9                   But, like I said, it's -- given it's 1  
10 percent of the costs, it -- it would be a rounding error  
11 overall in the -- in the -- in the cost of service, so  
12 it's -- I'm not saying with any certainty but I don't --  
13 I don't -- it's not something we spent that much time  
14 dealing with them.

15                   MR. BYRON WILLIAMS:   And recognizing that  
16 caveat, let me just follow along with that same question.  
17 In terms of customer service costs, is it your view that  
18 the incremental cost of adding a new residential customer  
19 in the City of Winnipeg would be the same as the average  
20 cost as expressed in the Cost of Service Study?

21

22                   (BRIEF PAUSE)

23

24                   MR. PATRICK BOWMAN:   That's a little bit  
25 harder to say, only because these are more material

1 components of that customer's costs so you're -- you're  
2 talking about something that has more potential to make a  
3 difference. But, you know, if you have a -- a customer  
4 service cost would be related to the relationship in the  
5 billing. Surely, you have to mail a new bill but, do you  
6 need to add a person in the billing department or a -- or  
7 -- or add to the software or -- or add a -- people to  
8 call centre because of an additional residential  
9 customer?

10 It -- it seemed it would be very hard type  
11 of thing to analyse. It --it's part of the reason why  
12 considering marginal costs for distribution systems is a  
13 pretty -- you know -- awkward concept at best. And it's  
14 not that -- in our experience, it's that not commonly  
15 used because it's -- these are pretty challenging types  
16 of concepts.

17 MR. BYRON WILLIAMS: Just to follow-up  
18 for a second, Mr. Bowman, given your answer and -- and  
19 your point about, you'd have to mail out a bill but you  
20 may not have to add another staff person or computer  
21 capability, would I be correct in suggesting you -- to  
22 you that generally with regards to -- in terms of  
23 customer service costs, the incremental cost of adding a  
24 new residential customer in the City of Winnipeg would --  
25 your expectation would be that -- it would be lower than

1 the average cost as expressed in the Cost of Service  
2 Study.

3 MR. PATRICK BOWMAN: Well, you -- you've  
4 asked just about the customer service component, if I  
5 understand you --

6 MR. BYRON WILLIAMS: That's correct, sir.

7 MR. PATRICK BOWMAN: -- correctly, and --  
8 and I -- I guess that -- that wouldn't surprise me, but I  
9 -- I can't necessarily take that -- a strong position on  
10 that.

11 MR. BYRON WILLIAMS: That would be your  
12 inclination?

13 MR. PATRICK BOWMAN: I -- I think that's  
14 fair.

15 MR. BYRON WILLIAMS: Speaking again just  
16 restricting this conversation to customer service costs,  
17 as a percentage of total cost, you'll agree that for  
18 residential customers they would be more material than  
19 they would be for large industrials, the group that  
20 you're more familiar with?

21 Would that be fair, sir?

22 MR. PATRICK BOWMAN: Yes, compared to the  
23 industrials. I -- I told you that with respect to  
24 industrials customer service costs make-up about 1  
25 percent of the total rate or bill they pay. With

1 residential it's -- it seems to be closer to about ten  
2 (10) based on the numbers.

3                   And I'm looking at MIPUG-15 which does  
4 these breakdown of PCOSS '08 by -- by class, and you  
5 know, residential -- customers service costs are listed  
6 there at 47 million of about 433 million in -- in total  
7 forecast revenues. So about, you know, on the order of  
8 10 percent.

9                   MR. BYRON WILLIAMS: Thank you, and I  
10 appreciate your answer. I want to talk about RIM for  
11 just a couple of -- couple of minutes, Mr. McLaren; the  
12 rate impact measure.

13                   The -- there's two (2) references for your  
14 guidance and that of the Board. One (1) is PUB  
15 Interrogatory MIPUG dash Number 11, and the other one is  
16 page 29 of your evidence, footnote 82, sir.

17                   Mr. McLaren, or Mr. Bowman, sorry, and I  
18 can assure you my -- my cust -- my clients are quite  
19 taken with -- with this -- with discussion in terms of  
20 RIMs, so they'll be reading this part of the transcript  
21 closely.

22                   Just -- the rate impact measure, as I  
23 understand it, it measures the Utility's benefits against  
24 its costs. And by costs I mean things such as loss  
25 revenue, program costs including advertising and

1 administration, and incentives.

2 Would that be fair, at a high level, sir?

3 MR. PATRICK BOWMAN: Yes.

4 MR. BYRON WILLIAMS: And just -- when I  
5 use the -- the term "rate impact measure", you'd  
6 suggested that in fact that's a bit of a misnomer,  
7 because what it really measures is the revenue  
8 requirement impact not the rate impact.

9 Would that be fair, sir?

10 MR. PATRICK BOWMAN: Yes.

11 MR. BYRON WILLIAMS: And you'll recall, I  
12 -- I certainly had a bit of a discussion with Mr.  
13 Chernick, it seems so long ago now, but a couple of weeks  
14 ago, and my -- my sense of his evidence was that in -- in  
15 terms of the design of demand-side management programming  
16 he would recommend doing away with the -- the RIM test.

17 Was that your understanding as well, sir?

18 MR. PATRICK BOWMAN: That's what I  
19 understand he -- he said. I -- I'm not positive I  
20 followed all of -- all of his rationale behind it, but I  
21 do understand he said that.

22 MR. BYRON WILLIAMS: Okay. and I'm more  
23 interested when you come down on -- on this issue.

24 And my sense of your position is that  
25 first all it differs with Mr. Chernick's. And you would



1 argue that it's not appropriate within a rate regulated  
2 system to pursue DSM projects that do not pass normal  
3 economic tests such as the RIM.

4 Would that be fair, sir?

5 MR. PATRICK BOWMAN: Yes.

6 MR. BYRON WILLIAMS: And I -- I see in  
7 your evidence -- and if you're looking for a reference  
8 it's the response, PUB MIPUG-11, page 3, lines 17 to 18.

9 It looks like you're really suggesting  
10 that the focus and emphasis on projects should be on  
11 projects that have a RIM greater than one (1) or at least  
12 close to one (1).

13 Is that your position, sir?

14 MR. PATRICK BOWMAN: Well, they'd have a  
15 -- a positive impact or a neutral impact on overall  
16 revenue requirement or -- or at least close to that.

17 MR. BYRON WILLIAMS: And I'm not -- I'm  
18 -- I'm dragging back -- dragging back into my memory,  
19 sir, but let's take, for example, a program such as some  
20 of the low income energy efficiency ones.

21 Would it be your recollection that they  
22 have -- if we applied the RIM to them that it might  
23 suggest that they would be less than one (1)?

24 Would that be fair, sir?

25 MR. PATRICK BOWMAN: That's possible.

1 It's one (1) of the reasons why programs like that become  
2 a bit challenging to categorize because -- and -- and it  
3 may not get the -- the focus that -- that you would  
4 otherwise expect. And it's because when you look to a  
5 DSM program, DSM within a utility -- I said earlier DSM  
6 and kilowatt hours are a little bit different than other  
7 kinds of kilowatt hours. DSM programs are also a little  
8 bit unique in a utility in that they're very -- they very  
9 much cross different disciplines.

10                   At it -- at its heart you want to be  
11 able to think about DSM as a resource option as a way to  
12 help plan your system. If you can acquire kilowatt hours  
13 from biomass, then we'll do it that way. If you can  
14 acquire kilowatt hours from DSM, then we'll do it that  
15 way. And you can compare the two (2) and consider it a  
16 viable component of your resource planning which would  
17 put it within a certain resource planning discipline.  
18 But to actually pull that off, you have to combine that  
19 with the marketing aspect, right?

20                   You actually have to get people to do the  
21 DSM. It's quite a bit different than -- than a biomass  
22 where all you've got to do now is build it.

23                   So it -- it sort of crosses disciplines  
24 between a customer contact or marketing perspective and a  
25 -- and a resource planning perspective. The -- the RIM

1 test is the one that really starts from the resource  
2 planning side or -- or a revenue requirement impact test.  
3 It measures DSM on an equal footing with other types of  
4 resource options like -- like a biomass generation or a  
5 new hydro plant, and it helps make sure that you're  
6 pursuing DSM on every opportunity where those kilowatt  
7 hours can be economically achieved.

8           Low-income DSM is not always going to meet  
9 that test, or at least in the types of programs we're  
10 talking about here, as I understand it, but there may  
11 still be reasons to want to pursue it that relate more to  
12 a policy perspective than a -- than a strict economics  
13 perspective.

14           And they may have to do with things like  
15 managing rate impacts and other considerations, but it's  
16 -- it's a -- it gets a bit dangerous to not remain with  
17 DSM true to each of the -- the two (2) areas; that you do  
18 have to sort of remain with DSM as a -- as a resource  
19 planning context and not lose sight of that otherwise it  
20 becomes just -- it could become just a marketing aspect  
21 to the Utility and not -- and -- and lose the linkage to  
22 what it's really can be about which is acquiring  
23 resources at a -- at an efficient price.

24           And -- and frankly many times that means  
25 that you might even not do as much DSM as you should. I'm

1 not just saying you'd do too much. You might do way too  
2 little, and that's our main concern.

3 MR. BYRON WILLIAMS: I understand your  
4 concern, and you'll also be aware that my clients are  
5 certainly hopeful that low-income energy efficiency  
6 programming will -- will prosper with this Corporation.  
7 I just want to -- to tie you down a little bit on this  
8 point, Mr. Bowman, if I -- if I might.

9 From your perspective are these programs,  
10 as you understand them based upon your following of the  
11 proceeding, are these programs that you would recommend  
12 to the Board?

13 MR. PATRICK BOWMAN: Well, I haven't  
14 reviewed the programs in detail, but I can comment  
15 generally that when we are talking about DSM in our  
16 evidence, and we say there should be an important focus  
17 on -- on the RIM test, it's to make sure that we don't  
18 lose sight of the fact that all of the economic  
19 opportunities for DSM should be pursued. We want to make  
20 sure that it's not getting lost in some -- in some  
21 marketing context. We want to pursue all of the -- all  
22 of the credible resource options.

23 That doesn't mean there's not other DSM  
24 options that are necessary from a policy perspective that  
25 may have a positive RIM test or may not, but that you

1 need to pursue it from other perspectives like your low-  
2 income example in order to manage rate impacts and that's  
3 a relevant consideration. It's just not the -- the  
4 aspect of DSM that we were primarily focussing on in our  
5 evidence.

6 MR. BYRON WILLIAMS: I understand your  
7 primary focus. Within the context of appropriate  
8 regulatory principles those other factors you've  
9 mentioned are -- are certainly worthy of consideration.

10 MR. PATRICK BOWMAN: They -- they are  
11 with caution because they're really getting into areas  
12 where, you know, you -- you may find a lot of these types  
13 of DSM programs run different places, and -- and people  
14 will highlight how many different programs you have. But  
15 you do want to be careful about the -- the roles of the  
16 Utility and other ratepayers in financing this as opposed  
17 to a government financing it or -- or some other form of  
18 imposed levy to -- to finance them for the -- for the  
19 distinguishing features I know between that type of DSM  
20 and the resource acquisition type of DSM.

21 MR. BYRON WILLIAMS: Okay. Thank you Mr.  
22 -- Mr. Bowman. Just a final question or two (2). Just  
23 going back to your evidence, page 4, line 19.

24 We talked about this briefly, Mr. Bowman.  
25 You see a reference to a -- to the MIPUG group annually

1 purchasing about 5,200 gigawatt hours of electricity at a  
2 cost of over 100 million from Hydro in brackets  
3 approximately 25 percent of Hydro's domestic sales.

4 That's the statement there, sir?

5 MR. PATRICK BOWMAN: Yes.

6 MR. BYRON WILLIAMS: And in terms of the  
7 reference to approximately 25 percent of Hydro's domestic  
8 sales, my understanding of that is -- how that percentage  
9 was calculated, you took the annual purchase in the  
10 '06/'07 year of 5,200 gigawatt hours of electricity and  
11 divided it by the 20,555 gigawatt hours of Manitoba  
12 supply for 2006/'07 as reported at the annual report.

13 Is that right, sir?

14 MR. PATRICK BOWMAN: That's exactly what  
15 the footnote says.

16 MR. BYRON WILLIAMS: And that's exactly  
17 what happened? That's right?

18 MR. PATRICK BOWMAN: That - that's what  
19 was done. This section was just to portray for people  
20 the -- the client that we work for -- and the reason they  
21 have the type of concerns that they do and why they ask  
22 us to look at them.

23 MR. BYRON WILLIAMS: Yeah, and just in  
24 terms so when I see 25 percent of sales, you're referring  
25 to its proportion of -- of -- of the Manitoba supply.

1 Right? You're not talking to a dollar figure. You're  
2 talking a gigawatt hour figure, correct?

3 MR. PATRICK BOWMAN: Measured as gigawatt  
4 hours. Energy, yes.

5 MR. BYRON WILLIAMS: And earlier we  
6 discussed -- in terms of the costs of over \$100 million,  
7 you weren't able to give me a great deal of precision,  
8 but you indicated that it would be less than \$150  
9 million. Would that be right, sir?

10 MR. PATRICK BOWMAN: Well, the whole  
11 industrial GS large class is just over a hundred and  
12 sixty (160) as I recall. This -- this is about 85  
13 percent of the class. So, I'm -- I'm not trying to do  
14 any fancier math than that. I'm just saying that -- that  
15 -- that's -- that's the type of range. It's -- it's just  
16 meant to reflect that there's a substantial basis for  
17 concern.

18 MR. BYRON WILLIAMS: And -- and I respect  
19 that, sir. In terms of the annual domestic revenues in  
20 Manitoba Hydro in '06/'07, I can give you a reference  
21 from the annual report page 100 if you need, but I wonder  
22 if you'd accept, subject to check, that it's about a bit  
23 over \$1 billion.

24 Would you accept that, sir?

25 MR. PATRICK BOWMAN: Yes.

1                   MR. BYRON WILLIAMS:    If I were to divide  
2 that -- let's say at or less than \$150 million of MIPUG  
3 revenues by that \$1 billion domestic revenues, would that  
4 suggest to me about 15 percent of domestic revenues are  
5 attributable to MIPUG in the '06/'07 year -- to the MIPUG  
6 numbers, sir?

7                   MR. PATRICK BOWMAN:    Well, if you ignore  
8 the fact that about half of Hydro's revenue is to pay for  
9 a distribution system, and you just wanted to look at  
10 ratios, that would be the type of number you would come  
11 up with.

12                   MR. BYRON WILLIAMS:    And so you'll --  
13 you'll confirm the answer then, sir?  15 percent about?  
14 Maybe a bit less.

15                   MR. PATRICK BOWMAN:    A bit less.

16                   MR. BYRON WILLIAMS:    So in terms of the  
17 actual sales, they account for about 25 percent and in  
18 terms of the revenues, a bit less than 15 percent.

19                                    Would that be fair?

20                   MR. PATRICK BOWMAN:    I would have guessed  
21 about twelve and a half (12 1/2) because they're about 25  
22 percent of the system, and they use about half of the  
23 system so you take a billion, you take half of that, you  
24 get to 500 million.  You take 25 percent of that, you're  
25 at about 125 million, which is about 12 1/2 percent of



1 the billion. It relates to the -- the two (2) systems  
2 that Hydro runs.

3 MR. BYRON WILLIAMS: I thank you for  
4 that. Mr. Chairman, I have no further questions.

5 THE CHAIRPERSON: Thank you, Mr.  
6 Williams.

7 Mr. Gange, are you ready to begin?

8 MR. GANGE: Yes, thank you, Mr. Chair.

9

10 CROSS-EXAMINATION BY MR. BILL GANGE:

11 MR. BILL GANGE: Mr. McLaren, Mr.  
12 Williams asked you a couple of questions about the  
13 Newfoundland Study. You -- you participated in that  
14 study, is that correct, sir?

15 MR. ANDREW MCLAREN: Yes, it is.

16 MR. BILL GANGE: And -- and you make  
17 reference at page 41, that -- at the time that -- that  
18 your pre-file testimony was prepared, that it was  
19 expected that there would be a joint proposal to the  
20 Newfoundland Public Utilities Board.

21 And -- and that -- that is in fact what  
22 happened, it was -- it was a joint proposal?

23 MR. ANDREW MCLAREN: The -- the report is  
24 under the cover of the Utility in Newfoundland/Labrador  
25 Hydro, but it's fair to say that it's -- aside from a few

1 minor aspects of it, that both the industrial customers  
2 and the Utility are -- are recommending it to the Utility  
3 Board.

4 MR. BILL GANGE: Can -- can you describe  
5 the process of how that joint proposal was -- was  
6 submitted?

7 MR. ANDREW MCLAREN: Sure, I can try.  
8 During the 2006 General Rate Application there was some  
9 concern from a variety of parties about having a modern  
10 rate design that included a -- a marginal cost sort of  
11 price signal. That general re-application was ultimately  
12 settled by way of a negotiation, and one (1) of the terms  
13 of the negotiation was that there would be a review by  
14 customers of a way to implement a -- a two-tier rate for  
15 industrial customers that had sort of a marginal price  
16 signal component to it.

17 So following that settlement agreement, we  
18 had a sort of working group with -- between the  
19 industrial customers and Newfoundland/Labrador Hydro,  
20 where we tried to develop a proposal. And there were  
21 check-in points along the way with the other interested  
22 parties in that application, the consumer advocate, and  
23 there's also a distribution utility in Newfoundland --  
24 Newfoundland Power. And so there were check-in points  
25 with them along the way to sort of bring them up to speed

1 on progress and -- and how we were proceeding.

2 MR. BILL GANGE: And -- and in terms of  
3 how that joint proposal proceeded, can you say from your  
4 perspective as to whether your sense was that the various  
5 parties that were involved felt that they had -- that  
6 there had been adequate consultation, in terms of -- of  
7 getting this joint proposal before the -- the  
8 Newfoundland PUB?

9 MR. ANDREW MCLAREN: I can certainly say  
10 that, you know, industrial customers, when this topic  
11 first came out, approached it with some trepidation.  
12 They weren't sure what to make of it, they weren't sure  
13 whether they would like it or not, and there may be  
14 individual members that still have aspects of it they  
15 don't -- they don't like.

16 But overall I would -- I would say that I  
17 think that the -- both the customers and the Utility  
18 thought it was a reasonable process that addressed most  
19 of their concerns. Like I said, there are certainly one  
20 (1) or two (2) outstanding issues we couldn't resolve.

21 In terms of the -- the other interested  
22 parties, there will be a sort of workshop proceeding  
23 where those parties will have a chance to comment, but  
24 based on the feedback we've gotten from them to-date, it  
25 seems that it's -- it's relatively well aligned with

1 what their expectations were as well.

2 MR. BILL GANGE: Was there anything  
3 unique about the Newfoundland experience that -- that  
4 would lead you to conclude that it could work there but  
5 could not work here?

6 MR. ANDREW MCLAREN: Well, I would  
7 certainly hope that it's a process that is -- is largely  
8 transferable. Certainly there are aspects of the system  
9 characteristics that are -- that are different.  
10 Newfoundland is an island, which Manitoba Hydro is not;  
11 it's not interconnected.

12 So there's some major sort of system  
13 dynamic changes, but in terms of transporting the  
14 process, I would think it should be, to a large degree  
15 transferable. And I -- I know that -- I wasn't  
16 personally involved, but I know that MIPUG members, to  
17 some extent, were with the curtailable rates process and  
18 that generally the feedback we get from customers who  
19 were involved with that, was that that process, they were  
20 -- the early 1990s, I believe -- that those customers  
21 were happy with that type of collaborative approach to a  
22 -- to rate design.

23 MR. BILL GANGE: I -- I take it,  
24 therefore, from those answer, that -- that whole type of  
25 collaborative approach is something, from your

1 experience, that would lead you to say that was -- that -  
2 - that was a useful approach for considering an issue  
3 such as the industrial rate design.

4 MR. ANDREW MCLAREN: I would certainly  
5 agree with that, yes.

6 MR. BILL GANGE: Thank you, Mr. McLaren.  
7 Mr. Bowman, in -- in one (1) of the  
8 recommendations that you have, at -- I believe it's page  
9 3, point 5, is that you've indicated your recommendation  
10 is that Hydro should be direct -- directed to implement a  
11 second rate adjustment effective April 1st, 2009, on a  
12 corporate wide revenue neutral basis. And -- and you  
13 commented on that as -- as part of your conclusion this  
14 morning.

15 That -- that's part of your proposal?

16 MR. PATRICK BOWMAN: Yes, if it would  
17 seem to be a necessary step if one is going to move with  
18 any reasonable horizon towards achieving the revenue cost  
19 coverage ratios within the -- the sort of reasonable  
20 range, yes.

21 MR. BILL GANGE: And what you were  
22 focussing on there in your testimony this morning was  
23 that it would be a realignment of the cost ratios within  
24 the classes?

25 MR. PATRICK BOWMAN: Well, we -- we

1 commented on it this morning. I -- I may have elaborated  
2 a -- a bit, but this is, you know, in the event Hydro is  
3 not otherwise doing a rate increase for 2009 doesn't mean  
4 that -- that rates are okay, and we that don't need to  
5 worry about changing rates.

6 This is -- this is a worthwhile step to  
7 make sure it happens in the event we're not otherwise  
8 here for a -- a rate application twelve (12) months from  
9 now. But it was meant to be a re-balancing between the,  
10 you know, among the classes as well as where necessary  
11 within the classes.

12 MR. BILL GANGE: And -- and thank you for  
13 that because that made -- you may have addressed the  
14 issue that -- that my clients would -- would raise an  
15 issue with. And that is that given that everyone except  
16 perhaps street light -- street lighting pays revenue  
17 below the allocated embedded costs, wouldn't it --  
18 wouldn't it make sense that -- that new rates effective  
19 April 1st, provide another revenue increase so that -- so  
20 that it's moving towards a full recovery?

21 MR. PATRICK BOWMAN: Well, it -- it  
22 probably does go to the comment I just made that in the  
23 event Hydro was looking for a rate increase at that time,  
24 that would give the opportunity to embed re-balancing  
25 within their request for the rate increase. In the event

1 Hydro was not seeking a rate increase in that time then  
2 that's -- then that's different.

3 Your comment is, you know, in -- in the  
4 event an overall rate increase is justified and merited,  
5 then -- then that would require -- that would bring  
6 forward a -- a general rate application at that time, and  
7 -- and we'd all be able to review the -- the merits of  
8 the overall proposal then. But -- that -- that request  
9 hasn't been made to date.

10 MR. BILL GANGE: Thank you. In terms of  
11 the industrial rate with respect to the large customers,  
12 your -- the -- the point that you've made in your  
13 evidence is that your preference is for inverted rates as  
14 opposed to the -- the methodology that has been -- been  
15 outlined by Hydro.

16 Would that be fair?

17 MR. PATRICK BOWMAN: Well, if -- if by  
18 the comment, "the methodology that's been outlined by  
19 Hydro," you mean our preference is for inverted rates as  
20 opposed to the rate -- the type of rate structure that's  
21 been in place to date for large industrials, meaning one  
22 (1) single demand charge and one (1) single energy rate I  
23 -- I think the answer is, yes. Assuming the details can  
24 get worked out inverted rates would be superior to a  
25 simple flat rate.

1                   MR. BILL GANGE:    And one (1) of the  
2 issues that you focussed on with respect to the inverted  
3 rates -- rates is that it's -- it's more effective to  
4 send an appropriate price signal to the large industrial  
5 users.            Is that correct, sir?

6                   MR. PATRICK BOWMAN:   Well, the -- yes,  
7 the point is to have a -- a price signal they can respond  
8 to and -- and in the event they can -- they can respond  
9 to it and reduce their load, they see the -- the savings  
10 that correspond with -- with that type of change in their  
11 bills.

12                  MR. BILL GANGE:    In -- in Hydro's  
13 suggestion with respect to the -- the new rate design,  
14 they've focussed on a baseline energy -- sitting --  
15 sitting baseline energy.

16                  You recall that, sir?

17                  MR. PATRICK BOWMAN:   Yes.

18                  MR. BILL GANGE:    And that that baseline  
19 energy would be fixed and -- and then could only be  
20 increased pursuant to certain exemptions that would be  
21 established and agreed upon.

22                  MR. PATRICK BOWMAN:   Yes, that's my  
23 understanding.

24                  MR. BILL GANGE:    And -- and whether it be  
25 by way of a baseline energy or -- or by way of inverted



1 rates, either one (1) of those processes is intended to  
2 send that price signal to the industrial user to attempt  
3 to assist the -- the industrial user in reducing and  
4 conserving demand.

5 Is that correct, sir?

6 MR. PATRICK BOWMAN: Not necessarily  
7 because they do entirely different things. An -- an  
8 inverted rate structure is something that would apply to  
9 every customer so that all of them have the full  
10 incentive on every kilowatt hour they consume to be  
11 efficient. The rate as -- the new industrial rate, as  
12 it's been talked about, would apply to very few customers  
13 so that, in fact, most of the load on the system would  
14 not see any of those incentives.

15 To those very few customers who are  
16 exposed the new industrial rate, at the margin they would  
17 see the same incentive to consume so once they were here,  
18 they would have the same incentive to consume a kilowatt  
19 hour.

20 And you'd -- you'd get to put one (1)  
21 component of that high elasticity, that high industrial  
22 elasticity or relatively high, still quite inelastic, but  
23 relatively high industrial elasticity to your benefit.

24 You send a better price signal and -- and  
25 they find a way to -- to conserve, but because the infra-  
marginal component of the rate, the -- the lower blocks

1 are also at that signal, you put the other component of  
2 that elasticity to bear on these customers which is the -  
3 - the one (1) that says, If that's the case, I won't use  
4 power here at all. I'll go somewhere else. So it's a  
5 whole different type of situation.

6 MR. BILL GANGE: Thank you for -- for the  
7 distinction. In -- in terms of the baseline energy  
8 component, part of Mr. Chernick's testimony is that --  
9 that setting a baseline rate is -- is one (1) thing but  
10 that -- that once it's been established there ought to be  
11 -- that baseline energy ought to be decreased on a  
12 regular basis by a small percentage amount.

13 Do you recall him testifying about that,  
14 Mr. Bowman?

15 MR. PATRICK BOWMAN: I recall reading it  
16 in his evidence, yes.

17 MR. BILL GANGE: And -- and would you  
18 agree with that that would then -- just on that baseline  
19 energy component part that it makes sense that if you're  
20 going to have a baseline energy, that it be reduced on an  
21 -- on an ongoing basis in order to again send the price  
22 signal with respect to conservation?

23 MR. PATRICK BOWMAN: No, I didn't agree  
24 with that, and -- and -- I'll -- I'll tell you why.  
25 There's two (2) reasons. The first is that if you're

1 designing an inverted rate, the idea is that the customer  
2 will always be in the second block. Every month and  
3 every year, they remain, as much as possible, using that  
4 second block power.

5           As long as they're purchasing any quantity  
6 of the second block power, every kilowatt hour they can  
7 save saves them at the marginal price signal. You don't  
8 have to ratchet up the quantity available for them to  
9 save because the -- the price signal's exactly the same.

10           If your customers are saving more than you  
11 -- you designed the block for, so if you set it, say, at  
12 90:10 and your customer's responding with more than 10  
13 percent, then you can set the blocks differently, 85:15  
14 if you like, but every time you bring those down, those -  
15 - those baselines down, if you're going to keep to the  
16 spirit of this type of rate which is that it's -- it's  
17 revenue-neutral.

18           It's not to penalize the class. Every  
19 time you bring the baseline down, you're adding more of  
20 the expensive kilowatt hours which means that the way the  
21 mathematics work, you're driving down the price of the  
22 first kilowatt hours they use. And at the end of the  
23 day, it's not really changing anything in terms of their  
24 bill or -- or their price signal so I -- I didn't -- I  
25 didn't see in any way the -- the benefits of -- of, you

1 know, the proposal as he's put it.

2 Now, if indeed you're talking about  
3 needing to move the baseline down such that you can keep  
4 some level of marginal use every month, then -- then  
5 that's fine, that makes sense. You do want to have your  
6 baseline low enough that you've got a price signal every  
7 month and every year, but I don't know that it needs to  
8 creep down over time. It just needs to be set at -- at  
9 whatever level achieves that.

10 MR. BILL GANGE: Your point though on the  
11 inverted rates is that -- is that there has to be a price  
12 signal that -- that is going to encourage users to be  
13 saving on every kilowatt hour.

14 Do I -- I have that correct, sir?

15 MR. PATRICK BOWMAN: As long as every  
16 billing period has some kilowatt hours at the higher  
17 price, then every decision that customer makes affects  
18 their -- their bill at the higher price. So it's not  
19 that the lights are cheap but the stove is expensive --  
20 I'm using a residential example rather than industrial --  
21 but, it's that every -- the sum total of all of those  
22 uses leads to a certain bill, and that bill would change  
23 by a given price, assuming you could change the bill by  
24 that number of kilowatt hours.

25 So it doesn't matter whether you turn the

1 stove off or you turn off the lights, each of those saves  
2 you equally, even though you -- you haven't necessarily  
3 targeted, you know, more extensive energy to one (1) use  
4 and less expensive to another. As long as there is one  
5 (1) last kilowatt hour out there that's expensive it  
6 gives you the opportunity to save that by -- by reducing  
7 your uses by one 1 kilowatt hour.

8 MR. BILL GANGE: And -- and does it  
9 follow then, sir, that -- that the more significant, that  
10 the -- that the differences between those two (2) blocks  
11 of power, the -- the stronger that price signal is going  
12 to be?

13 MR. PATRICK BOWMAN: No, because the  
14 price signal is exactly the price of the second block.  
15 It wouldn't matter if you're first block is, you know, is  
16 -- is free or is -- is, you know, priced at a -- at a  
17 very high level.

18 The classic example would be: previously  
19 Manitoba had a structure for residential rates -- are  
20 actually I guess still in place -- which was stepped the  
21 other way, it was -- went down over time, and it means  
22 that the customers who are into that second block are  
23 seeing the price signal of their last unit. It actually  
24 doesn't really matter what their first units are priced  
25 at, it's that last unit is the one that's the price

1 signal.

2 MR. BILL GANGE: I see, so as long as --  
3 as long as that last unit is -- is significant that  
4 that's going to be the incentive to save?

5 MR. PATRICK BOWMAN: Right. As long as  
6 the last unit is the unit you're saving, which -- because  
7 every kilowatt hour you use is effectively a new kilowatt  
8 hour -- and every time I say that, everyone but the  
9 economists in the room sort of look curious -- but -- but  
10 because every consumption decision affects your last  
11 kilowatt hour your -- every consumption decision receives  
12 that same -- that same price signal. It wouldn't matter  
13 if it's lower than the first block or higher than the  
14 first block or the same as the first block.

15

16 (BRIEF PAUSE)

17

18 MR. BILL GANGE: Thank you for that, sir.  
19 I -- I believe it was in the -- I'm not sure if it was in  
20 the -- the MIPUG motion or at the -- in the opening  
21 statements, there was evidence -- or commentary -- I'm  
22 not sure it came by way of evidence -- but with respect  
23 to the -- the TransCanada Pipeline, I believe there was a  
24 comment that their load is \$10 million at current rates  
25 but would be \$20 million at the proposed marginal rates.

1 Do you recall that evidence, sir?

2 MR. PATRICK BOWMAN: I believe it was at  
3 the Motion Hearing and it was -- it was Keystone Pipeline  
4 not -- not TransCanada but -- although it's partially  
5 owned by TransCanada, but I think their sensitive about  
6 that. It's Keystone Pipeline and -- and those numbers  
7 sound familiar, but I -- I can't quote them.

8 MR. BILL GANGE: Whether they're exact or  
9 not they're -- they're in the ball park though, that --  
10 that's fair?

11 MR. PATRICK BOWMAN: I think that's fair,  
12 yes.

13 MR. BILL GANGE; When Professor Miller  
14 and I heard those comments, the -- the point that seemed  
15 to resonate was that if there's going to be that increase  
16 of something close to doubling, that taking that is --  
17 does that lead one to the conclusion that -- that  
18 Keystone is in essence obtaining their -- their power  
19 right now at -- at about a 50 percent discount from the  
20 market value?

21 MR. PATRICK BOWMAN: Well, Keystone's not  
22 taking any power right now, just to be clear. They're  
23 not a customer on the system as yet; it's not  
24 constructed.

25 But it's -- it goes to the same question

1 that you and I were discussing earlier about every  
2 kilowatt hour is a new kilowatt hour.

3           If you want to go down the road as saying  
4 everybody who's here now, and all of the uses by all the  
5 people who are here now, and all of the expanded uses by  
6 any of the people who qualify for exemptions is -- has  
7 rights in some way to receive the output of Grand Rapids  
8 and Pointe du Bois and others, by virtue of -- of  
9 something, but Keystone doesn't have those same rights,  
10 it has to be, by definition, be the last party -- last  
11 person to the party.

12           Then you're effectively defining all of  
13 them as the new kilowatt hours, and none of anyone's  
14 else's usage as the new kilowatt hours. You get into  
15 that situation, and you -- you find that you end up with  
16 a very punitive signal to them simply due to the, you  
17 know, the -- the organizing your thoughts around that --  
18 that, you know, acquired rights as the term is sometimes  
19 used in regulation.

20           The acquired rights to the existing assets  
21 that -- that is the basis of the entire argument that  
22 Hydro's putting forward; that somehow today's ratepayers,  
23 and existing customers, and certain types of growth have  
24 an acquired right to the cheaper power and -- and these  
25 other customers have not acquired it.



1                   It's a concept that's pretty routinely  
2 rejected in regulation. But -- but that -- that's the  
3 premise. No one's put the -- the name on it yet.

4

5                                   (BRIEF PAUSE)

6

7                   MR. BILL GANGE:    Mr. Bowman, if you  
8 could, in the rebuttal evidence of Manitoba Hydro, and  
9 I'm at -- at page 13, Hydro has provided a chart that --  
10 that it was provided with respect to debt/equity ra --  
11 ratio. But it -- it would seem to indicate that for a  
12 period of approximately ten (10) years, there were no  
13 rate changes that were implemented.

14                            You see that chart, sir?

15                   MR. PATRICK BOWMAN:   Yes, it -- I think  
16 the chart is referencing history of rate changes to -- to  
17 industrial customers, and it relates to the basic firm  
18 rate. There were other types of changes to the other  
19 rates that they're involved in, but to the basic firm  
20 rate that's what it's referencing, yes.

21                   MR. BILL GANGE:    And then in 2003, there  
22 was a 2 percent rate decrease as -- as shown there. And,  
23 again, is that the same -- the same qualification that  
24 you'd put on that?

25                   MR. PATRICK BOWMAN:    Yeah, it's a -- it

1 was a 2 percent rate decrease and that was coming out of  
2 the status update hearing before this Board.

3 And it was to the -- it's not -- it's not  
4 a qualification. It's just to make sure we're -- we're  
5 precise, you know. In -- in the midst of this period,  
6 there was a curtailable rates program introduced so some  
7 customers had their bills effected by -- by participation  
8 in that. There was some different surplus energy  
9 programs.

10 So if you were an individual customer you  
11 -- you may have seen your -- the rate -- the effective  
12 rate you're paying change. But the -- the overall rate  
13 schedule had -- had no change in the -- in the basic firm  
14 rates that make up most of the persons bill through that  
15 period. A 2 percent rate decrease in 2003, and then a --  
16 a 5 percent rate increase and since that, as I recall,  
17 two (2) 2 1/4 percent rate increases.

18 MR. BILL GANGE: I just want to consider  
19 this chart in -- in terms of the -- this mornings  
20 discussion of the dilemma of creating equity; the equity  
21 component when the debt is projected to skyrocket from  
22 new infrastructure investments; that -- would -- would  
23 you agree, sir, that the policy of low domestic rates  
24 being created -- or being maintained through what is  
25 basically an export subsidy requires a growing export

1 surplus to match the growing domestic load?

2 MR. PATRICK BOWMAN: Can I just get you  
3 to repeat the question?

4 MR. BILL GANGE: Well, yes, if our -- if  
5 our low domestic rates are achieved in large part through  
6 a subsidy created by the export surplus -- are you with  
7 me that -- that far?

8 MR. PATRICK BOWMAN: I followed that part  
9 of the question.

10 MR. BILL GANGE: Okay, then if -- if the  
11 growing -- if there's growing domestic load, there's  
12 going to have to be a growing export surplus in order to  
13 match that growing load -- domestic load, if you're going  
14 to continue that subsidy.

15

16 (BRIEF PAUSE)

17

18 MR. PATRICK BOWMAN: The -- the challenge  
19 I'm having, Mr. Gange, is the -- the chart that you're  
20 showing starts to show something that's more of a longer  
21 term perspective than in any one (1) given year and so  
22 you -- you run into different thoughts over a longer term  
23 than you do in -- in one (1) year.

24 Growing -- if I understand where you're --  
25 where you're going, in terms of the -- the question,

1 growing load in Manitoba, while keeping the rates the  
2 same in Manitoba, and I take it the premise is not adding  
3 assets, is that -- you know as part of -- of this -- this  
4 period you're looking at, no -- no new generation was  
5 built, no major generation, then you'd have more kilowatt  
6 hours used in Manitoba, less kilowatt hours as a result  
7 to export, and as a result, if your costs didn't change,  
8 if your costs only sort of changed modestly, the -- the  
9 few kilowatt hours that are trying to carry the many have  
10 to get higher priced, I guess.

11           Is -- is that the type of relationship --  
12 if that's the case, I -- I think it might be fairly  
13 unique for a period where you're not adding assets, but  
14 if that's the type of relationship you're -- you're  
15 thinking about, I -- I can understand where you're --  
16 where you're going.

17           MR. BILL GANGE: I may have confused you,  
18 Mr. Bowman, by -- by make -- by tying this in at -- at  
19 this point, that question to this chart so the -- the  
20 chart is really just the background for the fact that for  
21 a period of -- of ten (10) years there -- pursuant to  
22 this, there's no rate change and then in 2003, there's a  
23 rate decrease.

24           But let's put that chart aside at this  
25 point and -- and just go back to the -- to the concept

1 that -- that we do have in Manitoba rates where none of  
2 us other than Mr. Buhr pay our fair share and -- and the  
3 only -- and -- and the reason for that is because there  
4 is an export subsidy that's applied to all of the rates  
5 so that's the basic starting point of -- of my question.

6 And then the second part of that question  
7 is that in order to maintain that subsidy, it strikes me  
8 that you're going -- that -- that an argument can be made  
9 that in order to -- to maintain that same subsidy, you  
10 have to increase the export surplus in order to apply it  
11 against the growing domestic load.

12 MR. PATRICK BOWMAN: Well, just to make  
13 sure I'm -- I'm following you I would -- I would take you  
14 to page 31 of our -- of our evidence, and there's a table  
15 there that I think is dealing with the -- the numbers at  
16 least in this -- in this year, this PCOSS '08 year.  
17 That's the concept you were talking about and it shows  
18 Mr. Buhr's situation.

19 That's page 31, and as you look down the  
20 table called "Surplus Shortfall", what I -- the numbers  
21 that are there show that outside of diesel and probably  
22 we should leave diesel aside for the purposes of this.  
23 Outside of diesel, exports pay their fair share of costs  
24 as defined by this Board plus they pay 131 odd million.

25 And that 131 odd million, outside of Mr.

1 Buhr's clients who pay three hundred twenty-four thousand  
2 (\$324,000) more than they would have, is distributed  
3 among the different customer classes following those  
4 numbers in that -- in that chart.

5 So under PCOSS '08, to -- to use some  
6 examples -- residential would be about 80 million of  
7 that, and that's the gap between their revenues and their  
8 fully allocated costs, and -- and industrials would be  
9 about 2.4 million of that.

10 So, if you had a bigger system, I guess is  
11 what is you're saying, if you had your load grow, your --  
12 your -- you'd -- your costs would follow through the  
13 costs of service. Your revenues would go up, to the  
14 extent there in the Cost of Service, and each of those  
15 numbers, if you want to keep rates the same, would have  
16 to get a bit bigger; meaning the 131 million that the  
17 bottom would have to get bigger is -- if -- if I've got  
18 it right. It would help to know if this table is -- is  
19 sort of -- doing it in my language, I guess, is what  
20 you're looking at?

21 MR. BILL GANGE: Yes, that's fair.  
22 That's fair, sir.

23 MR. PATRICK BOWMAN: I think the main  
24 comment I have is that -- that's true in the -- you know,  
25 in the short-term assuming that the types of, you know,

1 \$10 versus \$20 million we talked about from Keystone  
2 fairly reflects the aspects of the marginal costs, and I  
3 have -- I would have comments about that if you wanted to  
4 go through that.

5                   But, it becomes a very different concept  
6 over a medium to long-term because it's -- it's things  
7 like growing domestic load that allowed us to put in  
8 place things like Grand Rapids and -- and the plants in  
9 the Nelson -- to a largest par -- to a large extent,  
10 because we could be interconnected to an export market.  
11 It enabled them to be hydro rather than thermal plants,  
12 but it was growing domestic load to lead to those plants  
13 being able to be developed in my understanding of  
14 Manitoba's history.

15                   And that's the reason we have that sort of  
16 low cost assets that are here today. So we've seen the  
17 same thing when we deal with small utilities in the  
18 north. You know anywhere that there was a fairly high  
19 bit of load from industrial customers, they have hydro  
20 systems like in White Horse or in Yellowknife.

21                   And anywhere there -- where there wasn't  
22 that ability for the domestic load to pay for an asset  
23 like that, you tend to have diesel, which are very high  
24 cost assets today.

25                   Over the long term, past customers and

1 their loads growing, provide you with the types of  
2 heritage assets that bring the low power today. So over  
3 longer term horizon, that -- that same relationship  
4 between load growth and rates doesn't necessarily --  
5 doesn't necessarily hold.

6 Now, having said all that, none of that  
7 leads you to wanting to design rates that doesn't provide  
8 a price signal which is why we'd still say things like  
9 inverted rates are meaningful and important because  
10 that's key to getting efficient use, but it's not the  
11 same level of -- of comment on overall load growth for  
12 loads that are sort of efficient and sensible and  
13 worthwhile to allow you to put in place next generation's  
14 heritage assets.

15 MR. BILL GANGE: And it is that question  
16 of the next generation heritage assets, I think that you  
17 were making reference to this morning when you were  
18 talking about the dilemma of creating the equity  
19 component for the debt that's projected to skyrocket so,  
20 with -- given that, the -- the -- we know that the  
21 domestic load is growing beyond earlier forecasts.

22 That's a given, is it not, sir?

23 MR. PATRICK BOWMAN: The forecasts today  
24 are higher than the forecasts were previously. I'm --  
25 I'm not sure that most of this growth that we talk about



1 is -- is well in excess of what was in previous  
2 forecasts. We -- we had a few comments about that. It's  
3 more in the years to come and on the doorstep or -- or in  
4 people's concepts of the forecast than it is necessarily  
5 in Manitoba now.

6                   And -- and there's a chart that  
7 illustrates some of this in -- in Hydro's rebuttal. But  
8 -- but there is -- there is an aspect of load growth  
9 built into the forecast today that's above what was there  
10 before.

11                   MR. BILL GANGE:    And the question then  
12 arises how would you, in your analysis, provide for and  
13 finance the infrastructure growth that's required for the  
14 projected domestic load growth and to -- and to lead us  
15 to be in the same position of subsidizing the domestic  
16 growth?

17                   How would that be financed?

18

19                   (BRIEF PAUSE)

20

21                   MR. PATRICK BOWMAN:   Well, in short, it  
22 would be financed by rates paid over time, ideally in a  
23 regime where those rates were relatively stable and  
24 changed in a predictable way -- not necessarily stayed  
25 the same for ten (10) years at a time but changed in a --

1 in a relatively stable and predictable way -- as well as  
2 by the overall performance of the assets you're putting  
3 in place, recognizing the very long-lived nature of those  
4 -- of those plants and assets.

5                   It's -- it's -- you know there -- there  
6 will come a time when -- when Wuskwatim is very cheap  
7 power. I think it's -- it's probably almost a certainty.  
8 How long that time is will depend in part on whether they  
9 get a contractor and what the bid is, but -- but there  
10 will come a time when Wuskwatim is -- is quite cheap  
11 power on the system, and it will -- it will more than --  
12 than help ensure that that plant pays its costs.

13                   The challenge for the rate designer,  
14 particularly over a longer term, is to deal with this  
15 sort of bulge during the period where it's coming into  
16 service, and the tendency would be to want to raise rates  
17 and pick up the equity to even further back-end load the  
18 benefits of it because it's already had sort of all the  
19 rate impacts up front.

20                   It's balancing those rate impacts over the  
21 life of the plant and -- and that's -- that's always a --  
22 a tough issue when you're looking at developing hydro  
23 plants or -- or that -- that type of asset that -- that  
24 has a very low, ongoing cost or very low fuel cost but a  
25 very high capital cost.

1                   MR. BILL GANGE: I know that this is --  
2 well, this is a question that lawyers always do because  
3 we always like to look back in hindsight and -- and be  
4 much smarter than anybody that's looking forward, and I'm  
5 going to ask you to look in hindsight.

6                   Given the -- the lack of -- of  
7 infrastructure development during the period '93 to 2003,  
8 and -- and when one looks at -- at these rate changes or  
9 lack of rate changes in the chart on page 13 of 65 of the  
10 rebuttal evidence, what -- what should have been  
11 happening with respect to rates to deal with the  
12 inevitable, at some point, need for new infrastructure?

13                   If you were back in 1993, knowing --  
14 knowing what -- what we know now what -- what should the  
15 Public Utilities Board of that day have been doing to --  
16 to provide for infrastructure?

17                   MR. PATRICK BOWMAN: Well, it's -- it's  
18 one (1) step removed I think from the way that you may  
19 have described it which is in hindsight looking back to  
20 1993 where people sat in a room very similar to this  
21 looking with foresight at a long-term forecast.

22                   In that situation I think it's fair to say  
23 I haven't reviewed the materials in any detail. I -- I  
24 have a -- a strong deference for -- for the wisdom of  
25 this Board and for the people who appeared before it in

1 those years and so I'm inclined to say that -- that  
2 people who --

3 MR. ROBERT MAYER: Everybody's assuming  
4 there were some hearings in these years. I don't -- were  
5 there hearings?

6

7 CONTINUED BY MR. BILL GANGE:

8 MR. BILL GANGE: No, and -- and let's say  
9 -- I'm going to make the assumption -- I'm going to make  
10 the assumption, Mr. Mayer, that -- that had the Board  
11 been sitting in 1993.

12 How about that?

13 MR. PATRICK BOWMAN: As -- as far as my  
14 recollection goes there was a GRA in each of 1990, '91,  
15 '92, and '94 so I think you may have picked the one (1)  
16 year that -- that got missed in that series, but I'm just  
17 going by the binders on our shelves. But -- but in each  
18 of those cases there was an IFF filed. In each of those  
19 cases people talked about long-term horizons.

20 In each of those cases, particularly  
21 looking back to 1990 when the Capital Hearing occurred,  
22 people were looking at opportunities to put in place  
23 infrastructure where it could be done economically. The  
24 -- the, you know, markets were different, financial times  
25 were different, interest rates weren't quite the same, so

1 trying to do capital developments in that area was a bit  
2 different than -- than they are today, and -- and access  
3 to the US market was -- was a -- in a whole different  
4 structure.

5                   So my inclination is -- is to say, you  
6 know, people then didn't do too bad. The chart that we  
7 put in on Hydro's retained earnings, you know, suggests  
8 that the sum of -- of all the activities that have  
9 happened to-date have led to where we're at today; you  
10 know, closing in on \$2 billion dollars in retained  
11 earnings and -- and quite a low cost system.

12                   The -- the challenge becomes looking  
13 forward to a series of development where now, compared to  
14 a building era, in an era of building, in an era of  
15 growth, Manitoba hit for the electricity period -- system  
16 a period without that building and that growth. Now  
17 things are different again.

18                   And there's -- it's one of the reasons why  
19 I think we're pretty cautious about what maybe some  
20 lingering -- sort of reactions to -- to things like load  
21 forecasts. Like, Oh my gosh, we have growth. Well, we  
22 haven't quite -- you know, we haven't quite had that  
23 situation, you know, for some time; how do we -- how do  
24 we deal with it; let's try to find some reaction.

25                   And I think that's -- that's a flavour

1 that may be -- may be here for while, but it helps  
2 provide the opportunity for, as I say, that next  
3 generation of heritage assets to move forward, and be  
4 that Hydro, or wind, or -- or whatever other resources  
5 can be put into place, including enhanced cross-border  
6 transmission.

7

8

(BRIEF PAUSE)

9

10 MR. BILL GANGE: Thank you, Mr. Chair,  
11 those are my questions. Thank you Mr. McLaren and Mr.  
12 Bowman.

13 THE CHAIRPERSON: Thank you, Mr. Gange.  
14 Mr. Buhr, are you going to have any  
15 questions for this panel?

16 MR. DOUG BUHR: No, Mr. Chairman, I  
17 won't.

18 THE CHAIRPERSON: Okay, then we'll have  
19 our break now and then we'll move on to Mr. Peters.  
20 Thank you.

21

22 --- Upon recessing at 2:33 p.m.

23 --- Upon resuming at 2:51 p.m.

24

25 THE CHAIRPERSON: Okay, Mr. Peters.

1 CROSS-EXAMINATION BY MR. BOB PETERS:

2 MR. BOB PETERS: Thank you, Mr. Chairman.  
3 Mr. McLaren and Mr. Bowman, I have some questions. I'm  
4 going to jump around a little bit just by necessity,  
5 because Mr. Williams has taken a number of my areas; I  
6 must have left my notes open during the lunch hour and he  
7 came by.

8 But am I correct that it is certainly  
9 InterGroup's position that Manitoba Hydro needs equity to  
10 address its risks?

11 MR. PATRICK BOWMAN: It would be our  
12 position that Hydro needs some form of -- of reserves to  
13 address its risks. Equity isn't usually the biggest  
14 concern of a -- of a regulator; that's a concern of a  
15 shareholder of a company, but -- unless of course you  
16 have an act that specifies there must be return on  
17 equity, for example, but reserves of some form or other,  
18 to address risks, yes.

19 MR. BOB PETERS: And whether that reserve  
20 is in the form of equity or retained earnings in a  
21 different form, it's still a reserve that you consider  
22 necessary to meet the risks of the operations of the  
23 business?

24 MR. PATRICK BOWMAN: That's the premise  
25 we've been dealing with, yes.

1                   MR. BOB PETERS:    And in past, MIPUG has  
2 supported achievement of a 25 percent equity level for  
3 the Hydro Utility?

4                   MR. PATRICK BOWMAN:   I -- I don't believe  
5 I can recall a time that there was a position taken to  
6 support a 25 percent equity level. My recollection is  
7 limited in that I wasn't here at the 1996 GRA where a  
8 dead equity type of target was first talked about. But  
9 at that time it wasn't necessarily entirely endorsed by  
10 the Board as I recall. It was just Hydro starting to  
11 shift from an earlier target towards that.

12                   But I -- I don't recall a time when MIPUG  
13 sort of, took a strong position supporting a 25 percent  
14 equity level.

15                   MR. BOB PETERS:    Has InterGroup endorsed  
16 a 25 percent equity level as being reasonable in previous  
17 years?

18                   MR. PATRICK BOWMAN:   We've generally not  
19 tried to answer the question in order to stay focussed on  
20 the matters that would more normally be in a regulatory  
21 regime, which is a level of reserves required, not  
22 necessarily equity, which -- like I say is very much more  
23 a board of directors or shareholders type of -- of  
24 concern.

25                   MR. BOB PETERS:    The reason that



1 InterGroup is saying that while a reserve is needed don't  
2 tie it to the level of debt, is for the three (3) reasons  
3 you gave this morning, I think in answer to Mr. Williams.  
4 And that was:

5 Stability was the first one. There's no  
6 rate stability been shown by having a certain target.

7 Secondly, 75:25 is not meaningful if it's  
8 not achievable for two (2) or more decades out.

9 And your third reason was, I think your  
10 words I wrote down were, "bitter sweet", because today's  
11 ratepayers will contribute to the generation that will  
12 support tomorrow's ratepayers.

13 MR. PATRICK BOWMAN: You've summarized  
14 them well. My only comment would be, I don't want say  
15 there's been no rate stability cause Manitoba's actually  
16 had very stable rates. There's been no rate increase  
17 request stability, if you know what I mean. A lot of  
18 those rate increase requests were in or out, or didn't  
19 get followed through on, or -- or the like.

20 But rate -- rates at the end of the day,  
21 once they've been through this Board have been quite  
22 stable. It's just the matters that are put before this  
23 Board don't reflect that same level of stability.

24 MR. BOB PETERS: All right. Thanks for  
25 your clarification. Can you tell the Board what level of

1 reserves you think are needed for this Corporation today.

2 MR. PATRICK BOWMAN: No, I don't think  
3 believe we can provide an answer to that.

4 MR. BOB PETERS: Okay. Why can't you  
5 provide an answer?

6 MR. PATRICK BOWMAN: Well, it's not  
7 something we spent a lot of time dealing with and -- and  
8 that's really for two (2) reasons. One (1) is because  
9 our -- our main concern was over the form of the reserves  
10 and we didn't necessarily want to be distracted into a  
11 debate over the level of the reserves.

12 At -- at times that debate, or that  
13 discussion, has sort of overwhelmed being able to talk  
14 about how you could do something different with reserves.  
15 It's just gotten into a numbers game or a probabilities  
16 game. And I -- I've even got examples from earlier Board  
17 orders in that regard. But we -- we thought it best not  
18 to get caught into that for the first.

19 And second, because in assessing the rate  
20 increase request that's before the Board and the things  
21 we're asked to look at, we didn't think that at the end  
22 of the day that the conclusion we would come to would  
23 depend on saying it's X billion or Y billion. It's a  
24 matter of -- of getting the appropriate systems in place,  
25 considering the -- the mechanisms to ensure that it can

1 appropriately be tracked. And then over time as we move  
2 towards getting the -- a systems in place that achieved  
3 the type things we're talking about one (1) would start  
4 to turn their mind to how will we know when -- when we've  
5 got there.

6 But, again, it's -- there is -- some --  
7 some time away, so it -- it wasn't our central focus.

8 MR. BOB PETERS: You're acknowledging in  
9 that answer that the current level of retained earnings  
10 or the current reserve, whatever we're going to call it,  
11 isn't sufficient at this point in time?

12 MR. PATRICK BOWMAN: Well, not entirely.  
13 We're -- I'm saying we didn't necessarily spend a -- a  
14 lot of time assessing it. But when you mix all of the  
15 perspectives that lie ahead of you in the IFF there is  
16 years ahead that, in the event the IFF forecasts bear out  
17 and they don't actually erode by some of the things we  
18 talked about, there are years ahead where it's not only  
19 debt/equity that becomes a concern it's also the interest  
20 coverage that becomes a concern. And if one doesn't  
21 start to move forward on a relatively predictable series  
22 of rate changes, you -- you may find yourself needing to  
23 play a bit of catch up by the time you get there, and --  
24 and that wouldn't contribute to rate stability.

25 So in -- in light of all of the things

1 before us, particularly that -- and -- and I don't have  
2 that document right here, but the -- the sort of the --  
3 the years -- the lean years, if you like, in the middle  
4 of the IFF, that -- that lead to fairly low net incomes  
5 and low interest coverage ratios, notwithstanding 2.9  
6 percent rate increase today, it seemed to be supportive  
7 of starting to do something on that in the interest of  
8 rate stability.

9 MR. BOB PETERS: You're suggesting then  
10 that this Board would -- would soon embark on a process  
11 to quantify what that reserve should be?

12 MR. PATRICK BOWMAN: We are suggesting  
13 the Board would embark on that at an appropriate time  
14 once it had turned its mind to an appropriate, you know,  
15 mechanism for that.

16 But as I said, I'm -- I'm a little bit  
17 cautious about -- about mixing the two (2). There's --  
18 there's probably some level of -- of ordering needed  
19 because -- otherwise the debates over the numbers seem  
20 to, as we've seen in the last couple of years, seem to  
21 overwhelm the debates over what we're really trying to  
22 achieve.

23 MR. BOB PETERS: Do you think it's  
24 reasonable to consider the effect or the implications of  
25 achieving a particular reserve level on the Province of

1 Manitoba, as a whole?

2 MR. PATRICK BOWMAN: Can -- can you  
3 repeat the question just so I --

4 MR. BOB PETERS: Let's start from the  
5 premise that all the borrowings of Manitoba Hydro come  
6 from the Province of Manitoba and you'll accept that?

7 MR. PATRICK BOWMAN: Yes, they're all --  
8 come from -- or are guaranteed by, is my understanding.

9 MR. BOB PETERS: And do you therefore  
10 think it's reasonable to consider the effect or  
11 implications of achieving whatever reserve level is  
12 ultimately set; what that we'll have, in terms of an  
13 impact on the -- on the province as a whole?

14 MR. PATRICK BOWMAN: Well, yes, and that's  
15 why I was saying that in terms of looking at a 2.9  
16 percent rate increase today, in the context of the IFF,  
17 that's part of a measured series of rate changes aimed at  
18 trying to get the interest coverage ratio into a -- into  
19 a certain range, above -- you know, above one point one  
20 (1.1), which probably wouldn't otherwise occur unless you  
21 had some of those rate changes.

22 My -- all of the -- my experience  
23 reviewing Hydro's filings and other utilities that have  
24 relatively low levels of -- of equity compared to like a  
25 private company like an ATCO or something, looking here,

1 looking at Newfoundland, it's always been -- as long as  
2 the Utility on a reasonable basis can cover its interest  
3 costs plus some, which is the definition of interest  
4 coverage, it -- it wouldn't be at a point where it's  
5 negatively impacting on the province's ratings.

6 So I -- I think that's a relevant point to  
7 keep in mind, the interest coverage aspect.

8 MR. BOB PETERS: Let me just understand  
9 that. Are you saying in that answer that the perspective  
10 of the bond-rating agencies in the debt market aren't  
11 factors to consider as long as the -- the interest  
12 coverage ratio is positive; is -- is above one (1)?

13 MR. PATRICK BOWMAN: Well, the language  
14 that I hear suggests that in essence they're pretty much  
15 the same thing; that as long as you're not above one (1)  
16 in a token way, but above one (1) in -- in a notable way  
17 in your forecast, then you're, by anybody's definition,  
18 self-sustaining; you're paying your own interest; you're  
19 not relying on borrowed funds to pay interest, or you're  
20 not -- you're not reverting to your guarantee.

21 And -- and that self-sustaining nature, as  
22 I understand it, is -- is the key aspect of insuring that  
23 you're not negatively impacting on -- on the province's  
24 overall rating.

25 MR. BOB PETERS: So regardless of what

1 the -- the equity percentage is, as long as the interest  
2 coverage was above one (1) in a meaningful way you think  
3 that would be sufficient to maintain the province in  
4 terms of the eyes of the -- the bond-rating agencies?

5 MR. PATRICK BOWMAN: Well, it's -- it's  
6 the same concept as -- as progress, as the term is used  
7 by Manitoba Hydro, that you're able to cover your -- your  
8 interest plus some is -- is -- would be the concept of  
9 progress; the same way Manitoba Hydro talks about if your  
10 equity dropped because of a drought but your forecast  
11 still showed, you could cover your interest and make  
12 progress, in -- in Hydro's language, or keep your  
13 interest coverage, you know, some notable amount above  
14 one (1); not one point zero zero zero (1.000) of  
15 something, but some notable amount above one (1); that  
16 would -- that would be saying the same thing.

17 MR. BOB PETERS: Do you accept that if  
18 the -- if capital injections from the province of  
19 Manitoba are out of the question for the Hydro Utility,  
20 the only other place to get, I guess, resources to  
21 develop the capital projects is from either export  
22 profits or from the ratepayers through rate increases.

23 MR. PATRICK BOWMAN: Well, I'm not sure  
24 if you said that if the ways to get equity for the  
25 projects. if you mean to get equity for the projects,

1 your equity either comes through the shareholder  
2 providing equity or the net income of -- of the company.  
3 And Hydro operates with most of its -- its revenues  
4 coming from either export customers or domestic  
5 customers, so those would be the obvious three (3)  
6 sources if you're talking equity.

7 Of course to build projects, the bulk of  
8 the capital is actually coming from debt. But the  
9 equity, those are the sources you have.

10 MR. BOB PETERS: You're concern that you  
11 itemized earlier is that the debt picture that's before  
12 this board in the IFF is really not the whole picture,  
13 because just beyond the IFF planning horizon there are  
14 some major capital expenditures that will come into  
15 focus.

16 MR. PATRICK BOWMAN: Yes, and in fact,  
17 probably even within the IFF horizon if I understand  
18 correctly. I think if you look at the capital  
19 expenditure forecast, for example, it assumes that  
20 Keeyask planning costs  
21 stop somewhere along the way here. If someone's  
22 proceeding with Keeyask, there -- that's coming into the  
23 picture as well. So even within the IFF forecast there's  
24 some level.

25 But -- but just beyond the horizon is



1 really a picture that is -- that is something quite  
2 different than -- than we see in the IFF type of numbers.

3 MR. BOB PETERS: And the point the Board  
4 can take from that answer is that if the target is 75:25  
5 with all those major generation and transmission projects  
6 on the -- on the looming horizon, that will either, you  
7 know, double or even triple the quantification of the  
8 equity target if you use the mathematical formula 75:25?

9 MR. PATRICK BOWMAN: Correct.

10 MR. BOB PETERS: I want to turn to your -  
11 - what I take is your second systemic issue of the  
12 retained earnings and -- and that really is that under  
13 the current framework a shortcoming is that the PUB can't  
14 ensure the retained earnings are not eroded.

15 MR. PATRICK BOWMAN: That's one (1) of  
16 the things that -- that we expressed concern about, yes.

17 MR. BOB PETERS: And you expressed  
18 concern because you indicate the Board can provide more  
19 revenues through rate adjustments but those retained  
20 earnings have in past been eroded by Hydro's expenditures  
21 on either O&M or on capital matters.

22 MR. PATRICK BOWMAN: Well, the way the  
23 system is set up now what make it to reserves is the  
24 residual. It's the -- the last number of the end of the  
25 year, so the -- everything that happens in between has an

1 -- has an impact on it.

2 MR. BOB PETERS: In terms of the reserve  
3 fund, you're envisioning this to be starting from scratch  
4 at this point in time or is there a major influx from  
5 existing retained earnings into this reserve?

6 MR. PATRICK BOWMAN: Well, again, Mr.  
7 Peters, we wanted to put together for the Board to review  
8 something that would give an illustration of some of the  
9 ways in which a reserve fund could operate that would in  
10 fact pro -- provide benefits compared to what's tended to  
11 be put before it before by Manitoba Hydro that there's no  
12 benefits of doing something like this.

13 The -- what we've put together is not a  
14 proposal on the mechanics. I -- I wouldn't presume to  
15 suggest that in -- in a days testimony we'll have worked  
16 out all of the mechanics of something that's a fairly  
17 substantial change, but simply to try to keep the topic  
18 moving and alive given the Board has -- has pursued it  
19 twice before in previous orders.

20 We -- we didn't structure it to assume  
21 some sort of transfer out of retained earnings, in part  
22 because for the same reason we didn't structure it to  
23 assume major changes to -- to rate levels or something of  
24 that nature, because we didn't want the debate to get  
25 caught off into other directions.

1                   By the time it's developed that -- that  
2 may be where -- where one (1) sees that it needs to go.  
3 I -- I don't presume that, but that may be where -- where  
4 a -- a serious review of this by this Board, or by a  
5 third party they elect to involve in that, or -- or  
6 indeed by Hydro being sent back to do it again, that may  
7 be where it ends up. But it's not -- we didn't want to  
8 put it in for -- to anything that's in here for the --  
9 the purposes I was talking about, to -- to avoid trying  
10 to make it into an image of something it's not and to  
11 give -- give a -- a reason for concern that -- that  
12 doesn't necessarily relate integrally to the concept.

13                   MR. BOB PETERS: I take from that answer  
14 you want to -- you want to see if your evidence is  
15 assisting the Board in a conceptual way, recognizing that  
16 the mechanics are still going to have to be worked out.

17                   MR. PATRICK BOWMAN: Yes. And -- and the  
18 way we worded it at page 3 in our specific recommendation  
19 was that the Board should target a major review of  
20 alternatives to establishing appropriate protected  
21 regulated reserves. And I -- I don't want anything I  
22 said in -- you know, today to suggest that -- that we go  
23 beyond that. As soon as you go talking about detail  
24 people take it as -- as specific proposals.

25                   But the point is -- is there is potential

1 benefits. The responses this Board has tended to get  
2 from Hydro is that there is no benefits and no point in  
3 pursuing this concept further and -- and on that point we  
4 -- we strongly disagree.

5 MR. BOB PETERS: Maybe I should have  
6 asked you this earlier, but what do you understand the  
7 Board to be saying about the reserves in the prior two  
8 (2) orders that you've just referenced in your second  
9 last answer?

10 MR. PATRICK BOWMAN: Well, just so that  
11 we don't lose it, the two (2) orders I'm talking about  
12 are Board Order 703 which was from the status update  
13 filing. And in that order there was some discussion  
14 about the concept of risk analysis and reserve levels at  
15 page 89, and -- and the quote in particular was that:

16 "The Board believes that Hydro should  
17 develop a policy to identify a reserve  
18 provision amount, and in particular to  
19 set the circumstances under which it  
20 can be drawn down or increased, keeping  
21 in mind the statutory limitations in  
22 the Manitoba Hydro Act."

23 That lead to a directive for Hydro to  
24 consider this and what came back out of that was a  
25 response that was basically a risk assessment. It never

1 did anything to deal with the concepts of drawn down or  
2 increased or any provision amount. It was just simply a  
3 risk setting. So that was the first one.

4 The second one was in the -- was in the  
5 2004 GRA and is Board Order 101'/04 where the Board  
6 directed the study being:

7 "...a study on the implications of  
8 internally restricting retained  
9 earnings as a form of self-insurance  
10 reserve and rates stabilization fund,  
11 to restrict any future dividend payment  
12 until the 75:25 debt/equity ratio has  
13 been achieved and/or exceeded."

14 That -- that Hydro gave a four (4)  
15 paragraph response to and that was filed with the Board  
16 in February 2nd, 2005, which I have a copy of but I'm not  
17 sure it's an exhibit in any particular hearing. It was -  
18 - but I believe it may have been provided as an  
19 attachment to an IR in -- in one of the responses in this  
20 Hearing and I apologize for not having that reference.

21 So -- and I just note that even in this  
22 Hearing, there was an IR provided to Hydro by the  
23 Coalition which asked about the pros and cons of doing a  
24 reserve of this type, and Hydro listed a paragraph of  
25 cons and said there are no pros. It didn't strike us as

1 a very carefully considered position.

2 MR. BOB PETERS: In addition to that,  
3 you've said in your evidence that this Board's granting  
4 of rate increases in the past to build reserves doesn't  
5 appear to have worked in terms of creating the reserves  
6 that you think should be in place.

7 MR. PATRICK BOWMAN: Well, this Board's -  
8 - you know, the reserves are ahead of where anyone  
9 thought they would be in 2000 -- or IFF '02-1 -- so I --  
10 I don't want to -- I don't want our comments in that  
11 regard to be read as overstated either. But the -- the  
12 challenge, dilemma, Mr. Williams' word, to us comes  
13 through the Board orders and the question is, had  
14 something been able to be in place in 2002, coming out of  
15 the status update hearing, would we be in a different  
16 situation today?

17 Of course, none of us can answer that, but  
18 -- but it does make one wonder about what opportunities  
19 lay ahead of us to put something in place -- to do what  
20 -- the types of things the Board had been -- been  
21 acknowledging in its early orders.

22 MR. BOB PETERS: I'm going to acknowledge  
23 that I understand from your evidence that you're asking  
24 the Board to directionally indicate its interest in this  
25 concept in this -- proceedings and, if it is interested,

1 to perhaps consider directing future proceedings, because  
2 those proceedings are going to address the mechanics that  
3 you've mentioned, correct?

4 MR. PATRICK BOWMAN: I think that's fair.  
5 I have been trying to find the right way to suggest that  
6 this Board may want to go forward. And Ms. McCaffrey has  
7 asked me somewhat the same thing, as Hydro's been asked  
8 to review it twice and has come back with the, you know,  
9 the responses that we noted.

10 I'm -- personally go through quite a few  
11 of these hearings for both Intervenors and Utility and  
12 I'm always very cautious about the presumptuousness of an  
13 Intervenor who spends -- doesn't spend their career  
14 looking at the Utility's books, coming up with something  
15 like this, and so I would want to make sure that there's  
16 a right time for the appropriate diligence to come up  
17 with the right system or method.

18 Is there a need to consider a -- a, you  
19 know, an act of Board involvement or it will -- be it a  
20 proceeding, a third party involvement? It's a good  
21 question but we haven't quite got there to-date.

22 MR. BOB PETERS: All right. If my  
23 questions push you on the mechanics I know you're going  
24 to push back on them, but do you envision this reserve to  
25 be funded only through rate increases?

1                   MR. PATRICK BOWMAN:    I don't know what  
2 other alternatives may exist, so I -- as opposed to what?  
3 I've -- we haven't identified anything other than overall  
4 levels of rates being set aside, you know, as opposed to  
5 some sort of third party funding or something.

6                   MR. BOB PETERS:    No. Well, I was  
7 thinking of export revenues and matters over and above  
8 the revenues realized from future rate increases.

9                   MR. PATRICK BOWMAN:    Oh, I appreciate  
10 what you are saying. When you're dealing with the types  
11 of numbers we put in the Exhibit that was out this  
12 morning, MIPUG-14, you are dealing with the entirety of  
13 Hydro's financial statement so where is one dollar (\$1)  
14 coming from and going to is always a bit of a mug's game.  
15 But the premise in the top part of the table would be  
16 that rate increases are granted but they are somewhat  
17 conditional on making sure that they -- that -- that  
18 there's a priority on -- on establishing reserves out of  
19 those. The premise in the second half of the table is  
20 different though.

21                               That's where we're saying in the event  
22 this Board elected to determine that notionally at least  
23 a portion of export revenues that's above cost should be  
24 prioritized to reserves rather than lower rates today.  
25 That's a different concept so -- so perhaps the -- the



1 answer is both, domestic and exported, by -- by the time  
2 one -- one turns their mind to all of the possibilities.

3 MR. BOB PETERS: All right. Does your  
4 current thinking on the topic of reserves include one (1)  
5 set of financial statements for regulatory purposes and a  
6 separate set, a different set, for Manitoba Hydro's  
7 external reporting?

8 MR. PATRICK BOWMAN: Not necessarily but  
9 that may depend in part on how the financial reporting  
10 world evolves. Certainly there is an aspect of  
11 regulatory statements that most utilities file before  
12 their regulator that -- that is a little bit different  
13 than a utility tends to prepare as its own financial  
14 statements.

15 Hydro's tend to be the -- the least  
16 differentiated among all the utilities we work with, but  
17 for example there's a -- BC Hydro now has a heritage  
18 deferral account set-up under the Heritage Act in BC and  
19 the proceeding that came out of that in 2003, the same  
20 proceeding which led to stepped rates.

21 And the Heritage Deferral Account there  
22 deals with -- it -- it accepts the -- the changes in cost  
23 due to variations in water conditions which is their  
24 words which will be both higher and lower than in average  
25 conditions and -- and to my understanding that deferral

1 account concept is recorded on their financial  
2 statements. So it's -- it's not necessarily the  
3 case that for example Hydro would report all of the  
4 reserves as retained earnings for its annual report but  
5 when it comes here it would identify them as two (2)  
6 separate pots for example. It's not necessarily the  
7 case, but -- but it -- it may end up that that's required  
8 given -- given where financial standards may evolve.

9 MR. BOB PETERS: And I'm not quite clear  
10 then is there -- is there a prohibition or restriction on  
11 those funds only being used as approved by this Board or  
12 are they otherwise generally available under Manitoba  
13 Hydro's current existing accounting methodologies?

14 MR. PATRICK BOWMAN: Well, I'm going to  
15 take caution with the word "funds" because again an  
16 alternative here -- there are alternatives here that  
17 actually have funds or cash; others that are -- that are  
18 merely noted as -- as liabilities or the like on the  
19 balance sheet.

20 The -- the concept as -- as we would put  
21 it forward would be that whether it's a set of rules that  
22 this Board approves under which it operates or whether it  
23 is in fact particular transactions that this Board must  
24 individually approve is -- is a kind of matter that could  
25 be reviewed.

1                   My -- my thought is it's a kind of thing  
2 you could come up with rules more along the lines of what  
3 someone would be talking about from -- from BC or from  
4 the other accounts rather than necessarily approving  
5 individual transactions, but -- but, you know, that --  
6 that doesn't rule out the alternative approach.

7                   MR. BOB PETERS:   All right, so my use of  
8 the word "funds" instead of "reserves" was one (1) that I  
9 need to be cautious about.

10                   Are you suggesting that if GAAP changes,  
11 there should be a departure from GAAP for regulatory  
12 accounting purposes?

13                   MR. PATRICK BOWMAN:   It doesn't make me  
14 very popular with the accountants, but I've consistently  
15 recommended that regardless of -- of what GAAP does, a  
16 regulator should look at the things that the regulator  
17 cares about and not have to change how it does things or  
18 change the rate increases it thinks are appropriate  
19 because of an -- an accounting rule change.

20                   If a regulator determines that it wants to  
21 stabilize a cost that GAAP doesn't allow one to defer, I  
22 think the regulator has the prerogative and then GAAP has  
23 to figure out how to account for it. If a regulator  
24 figures that it wants to -- to set up a reserve and --  
25 and deal with something that way again, the point of

1 financial accounting is it comes second in the game.

2 It figures out how to account for what a  
3 Board decides. I hate the idea that a Board is -- is --  
4 has its hands tied because of -- because of the Chartered  
5 Accountants' Institute.

6 MR. BOB PETERS: All right. Mr. McLaren,  
7 turning to MIPUG Exhibit 15, the transmission marginal  
8 costs that you've shown the Board on -- on MIPUG 15, you  
9 sourced that information from Exhibit Hydro-68, correct?

10

11 (BRIEF PAUSE)

12

13 MR. ANDREW MCLAREN: Yes, that's correct.

14 MR. BOB PETERS: Would -- would it appear  
15 that -- that \$241 million of transmission marginal costs  
16 reflects future finance and depreciation costs only?

17 MR. PATRICK BOWMAN: Well, Hydro's  
18 transmission marginal costs are actually a little -- a  
19 little harder to understand than some of their other  
20 components in this proceeding. I had meant to comment on  
21 this, but the opportunity hadn't arisen.

22 But we -- Hydro's transmission marginal  
23 costs -- a number is cited in this proceeding and -- and  
24 no backup was provided, and it was said to be  
25 confidential even though later on, after our evidence was

1 filed, a -- a 2004 study -- copy of their Transmission  
2 and Distribution Marginal Cost Study was filed. So we  
3 have -- we have an old one (1) that supports some costs  
4 that are about, you know, that have increased by about 50  
5 percent in the intervening four (4) years, but we don't  
6 have the new one (1).

7           The premise as we understand it though, or  
8 as I understand it, is that one is looking at a change in  
9 load and as a result the change in advancement of -- of  
10 transmission assets. So it's capital related costs, but  
11 whether it's actually the depreciation and interest on  
12 those capital related costs, as opposed to a capital cost  
13 depreciated back -- or -- or present valued back, we -- I  
14 -- I can't necessarily comment.

15           And -- and had we had the Appendix 63, the  
16 Transmission Marginal Cost Study, before we prepared our  
17 evidence we might have spent a bit more time with it.  
18 But -- but nonetheless it's capital related if that's --  
19 if that's what you were asking.

20           MR. BOB PETERS: Well, if it is capital  
21 related, doesn't that suggest that it might be addition -  
22 - it might reflect additional capital in the -- in the  
23 range of \$2.5 to \$3 billion worth of transmission assets?  
24

25           If you did work it back?

1 (BRIEF PAUSE)

2

3 MR. PATRICK BOWMAN: I -- I can't  
4 necessarily follow your math, Mr. Peters. The -- the  
5 transmission marginal costs, as I understand it, and this  
6 is from IR TREE Round 1, 13(A), if I can read my own  
7 writing, is sixty-seven dollars and seventy-five cents  
8 (\$65.75) per kilowatt year.

9 And this exhibit -- and that's a  
10 coincident peak kilowatt -- this exhibit would then  
11 simply take that number and apply it to the coincident  
12 peak kilowatts on the system broken down to each of the  
13 classes. I presume it uses a cost of service concept of  
14 the fifty (50) top hours, but it's broken down to each of  
15 the classes to come up with the -- the total marginal  
16 cost.

17 I assume that's the way it's done, and --  
18 and I can't say what underlying capital amount is being  
19 switched or by how many years.

20 MR. BOB PETERS: Okay, well, I'll accept  
21 that answer.

22 Mr. McLaren, maybe last word to you, the  
23 distribution marginal cost when you prepared Exhibit 15,  
24 you took the distribution marginal cost off the top half  
25 of Exhibit 68, and I guess you came up with a different

1 total than the hundred sixty-three (163) that the Utility  
2 did?

3 MR. ANDREW McLaren: We did come up with  
4 a different total. I believe it's a summation error on  
5 MH Number 68.

6 MR. BOB PETERS: I think that'll explain  
7 some of our issues.

8 Mr. Chairman, I'm going to stand down and  
9 just review my notes, but I believe those answers will  
10 assist us in working with the additional points we had.  
11 So I'd be prepared to turn the microphone over to My  
12 Friend, Ms. Ramage at this time. Thank you.

13 THE CHAIRPERSON: Thank you, Mr. Peters.  
14 Just before we go over to Ms. Ramage, just a couple of  
15 questions if you don't mind, Mr. Bowman.

16 Mr. Bowman, \$14 billion of new  
17 construction is a lot of money to put at risk.

18 Would you agree?

19 MR. PATRICK BOWMAN: It -- it's hard not  
20 to agree.

21 THE CHAIRPERSON: And despite the best of  
22 intentions and efforts, etcetera, things can go wrong.  
23 Is that not true?

24 MR. PATRICK BOWMAN: Absolutely.

25 THE CHAIRPERSON: Did you review the

1 debt-rating agencies reports that were filed in -- in  
2 this proceeding?

3 MR. PATRICK BOWMAN: Not in any detail.  
4 I have reviewed them in -- in past proceedings when  
5 they've been filed, but I didn't spend a lot of time with  
6 them that were filed in this proceeding.

7 THE CHAIRPERSON: Generally, in your  
8 opinion, how well does the debt market regard 100 percent  
9 loans against a capital investment?

10 MR. PATRICK BOWMAN: Well, when I've been  
11 dealing with other utilities who were trying to finance  
12 relatively major capital assets, a fair bit smaller than  
13 anything Manitoba Hydro's talking about, but relatively  
14 large capital assets, it's pretty hard to walk in and  
15 borrow 100 percent of a project cost unless you've got  
16 something to back it up.

17 The -- when one is actually borrowing for  
18 -- for the Utility though, you're dealing with the  
19 consolidated balance sheet and the consolidated forecast  
20 because of your -- your -- the overall way it's accounted  
21 for.

22 It's not like there's, you know, one (1)  
23 debt for -- for one (1) project and at least typically,  
24 so in that situation you have the -- the benefit of the  
25 overall strength of the balance sheet of the -- of the



1 Company to help back it up, and -- and in this particular  
2 case, you also have the strength of the guarantee of the  
3 -- of the Government of Manitoba so that -- that changes  
4 the rules a fair bit, but I wouldn't want to try setting  
5 up my own company to build a -- build Conawapa and try to  
6 find \$5 billion in debt.

7 THE CHAIRPERSON: Okay, then in your  
8 opinion it would be difficult for a company to get a loan  
9 for construction purposes without a substantial capital  
10 position?

11 MR. PATRICK BOWMAN: Well, without a  
12 substantial likelihood that the -- that the money's going  
13 to be repaid. The capital position is one (1) of the  
14 things that helps contribute to that. There -- there are  
15 other aspects. Certainly if you're trying to borrow  
16 money, there's a relative ranking of debtors. There's  
17 guarantees. There's the -- the economics of the project,  
18 but capital position would definitely be one (1) of the  
19 things that someone might look at.

20 THE CHAIRPERSON: In your opinion, would  
21 current ratepayers gain any benefits from large new  
22 construction projects ahead of actually enjoying the  
23 finished product? In other words, are there benefits for  
24 the -- for ratepayers that exist during construction  
25 periods and that come before the product is all done and

1 revenues start flowing from it?

2 MR. PATRICK BOWMAN: I -- I would say  
3 it's a -- it's a difficult question. I think if you get  
4 into the numbers the -- the premise behind the way that  
5 one would -- would seek to account for -- for a -- a  
6 utility or the cost of a utility would -- would suggest  
7 that it's -- it's not benefits. The -- that -- that the  
8 benefits would -- would show up at the same time the cost  
9 would show up. That's sort of the -- the premise behind  
10 -- behind basic production.

11 THE CHAIRPERSON: But just generally  
12 speaking. The ratepayers, the customers of the Utility  
13 in a particular jurisdiction with say \$14 billion of  
14 constructions going on, can't you --

15 MR. PATRICK BOWMAN: Oh --

16 THE CHAIRPERSON: -- imagine that they  
17 would gain some benefits during the period of the  
18 construction --

19 MR. PATRICK BOWMAN: Well --

20 THE CHAIRPERSON: -- ahead of the  
21 projects being finished?

22 MR. PATRICK BOWMAN: Ratepayers as  
23 ratepayers as opposed to -- say, just as Manitobans  
24 seeing a benefit in the economy for example -- ratepayers  
25 as ratepayers may see some benefits. Some examples would

1 be, you know, the Utility may be experiencing quite an  
2 improved relationship with the First Nation communities  
3 it deals with, because it's busy embarking on a project  
4 and -- and those type of relationships may help it to --  
5 to move certain things forward or deal with past  
6 mitigation issues for example.

7                   That's -- that's one (1) of the reasons  
8 why one might look at an opportunity for something like  
9 Wuskwatim very favourably, to advance it and to -- to use  
10 it to -- to build those relationships.

11                   THE CHAIRPERSON: But ratepayers just as  
12 residents?

13                   MR. PATRICK BOWMAN: Ratepayers as  
14 residents probably would have one (1) -- one (1) aspect  
15 of the -- of their experience that would be enhanced in  
16 terms of the overall economy of the province. They may  
17 have other aspects that are -- that are -- are not so  
18 beneficial if it means, you know, that the cost for  
19 things go up, inflation goes up because there's a  
20 shortage of workers or some other type of aspects.  
21 Usually though if you're having a -- a construction  
22 project, you think of it as -- as pretty beneficial for  
23 the province.

24                   THE CHAIRPERSON: Just one (1) last  
25 question. It is just a follow-up to something Mr. Peters

1 asked.

2 I gather, Mr. Bowman, that you're not  
3 concerned with the implications of the upcoming adoption  
4 of the IFRS with respect to the IFF '07's forecasts  
5 including the retained earning forecast going out?

6 MR. PATRICK BOWMAN: Well, IFR -- the  
7 IFRS and the -- the relative -- I'll say it depends on --  
8 on the week, from what I understand of the -- some of the  
9 discussions that are going on; it depends on the person  
10 interpreting some of this. But I -- I accept the premise  
11 that -- that the IFF '07-01, to the extent it's  
12 reflecting financial projections, may change relatively  
13 materially.

14 But our -- our key concern here, as in  
15 other places, is the -- the -- to what extent does  
16 changing for how you account for something change what a  
17 regulator has to do in assessing what is fair and  
18 reasonable for rates, and how they want to consider cost  
19 going into rates.

20 And from that perspective there may be  
21 some instructive things in looking at an IFRS but -- but  
22 primarily -- I think my comment was you -- you want to be  
23 careful about the extent to which -- the way you have to  
24 account for something leads the dance, and that's true  
25 whether you're a regulator or whether or someone planning

1 a capital project.

2                   If someone says you can no longer  
3 capitalize overheads, but they really are incremental  
4 costs of a project, but you have to account for them  
5 upfront, it makes a project look a lot more expensive  
6 because now you've got this front-end loaded cost you  
7 can't defer and amortize with the project. You'd hate  
8 for that to cause you to -- to determine that, well,  
9 Conawapa was a good project, but now it's not a good  
10 project because we had to account for it differently. It  
11 -- you really don't want accounting to be in the driver's  
12 seat.

13                   THE CHAIRPERSON: So you are suggesting,  
14 in a sense, that if something material developed that the  
15 Board consider some form of regulatory accounting set  
16 that would be different from the Corporation's books  
17 itself?

18                   MR. PATRICK BOWMAN: I would say that's  
19 -- that's pret -- pretty much the norm for regulated  
20 utilities, and -- and I don't think it would be out of  
21 place in Manitoba.

22                   THE CHAIRPERSON: You do not think there  
23 would be any implications for the debt rating agencies if  
24 we were to have, if you like, two (2) sets of books?

25                   MR. PATRICK BOWMAN: Well, the -- the

1 debt rating agencies would look at the -- the books that  
2 -- that they consider for the purposes of their -- of  
3 their rating, which would be the financial statements.  
4 Now, in any given year, maybe they would look -- if they  
5 were different, maybe they'd look better, maybe they'd  
6 look worse. The whole thing relates to timing, so over  
7 time they'd look the same. That's the -- that's the  
8 basic premise.

9                   But this Board may elect to recognize  
10 costs and revenues at a different pace than -- than  
11 accounting would otherwise, and the -- the difference  
12 would be between the two (2) sets of books.

13                   THE CHAIRPERSON: But they would not look  
14 the same presumably through a large construction process  
15 that lasted say roughly ten (10) years, would they?

16                   MR. PATRICK BOWMAN: The -- the main cost  
17 that I've heard gets heavily affected by the --  
18 potentially, by -- by the IFRS, and I'm going by  
19 testimony earlier this week, is the capitalization of  
20 overheads. If I'm -- if I'm not thinking the same thing  
21 you are, let me know, but -- and in that regard, if -- if  
22 the overheads are quite substantial and the Utility had  
23 to record them as a cost it would have a quite different  
24 net income on its -- on its financial books than it would  
25 where this regulator would choose to recognize those

1 costs, were it to choose to recognize them over the life  
2 of the asset.

3 But that hinges on the fact that actions  
4 of a regulator will not be accepted with respect to the -  
5 - the final accounting systems when they come into  
6 effect. And -- and the best I can -- the -- to the best  
7 of my knowledge, that's an outstanding question.

8 THE CHAIRPERSON: Thank you, Mr. Bowman.  
9 I do appreciate your comments and reactions to the  
10 questions. We will move on now to Ms. Ramage.

11 Ms. Ramage, do you have questions for  
12 these witnesses?

13 MS. PATTI RAMAGE: Yes, I do. And if I  
14 could begin, we have a very small book of documents. And  
15 I'd also ask if everybody could pull their annual report  
16 out and -- maybe while we're distributing that, so we can  
17 be ready to go.

18

19 (BRIEF PAUSE)

20

21 THE CHAIRPERSON: Okay. So we have  
22 Manitoba Hydro's book of documents relating to the MIPUG  
23 witnesses and Manitoba Hydro Exhibit 92, is that correct?

24 MS. PATTI RAMAGE: That is correct..

25 THE CHAIRPERSON: Okay, very good. Thank

1 you.

2

3 --- EXHIBIT NO. MH-92: Manitoba Hydro book of  
4 documents relating to MIPUG  
5 witnesses  
6

7 CROSS-EXAMINATION BY MS. PATTI RAMAGE:

8 MS. PATTI RAMAGE: Mr. Bowman, in your  
9 Exhibit 14, and I've think we've covered some of this  
10 ground but, are you suggesting that Manitoba Hydro should  
11 depart from generally accepted accounting principles in  
12 recording its export revenues and reported net income?

13 MR. PATRICK BOWMAN: No, my  
14 recommendations are not related to the accounting  
15 principles and how Hydro relates -- or reports its  
16 accounts. They're only related to how this Board goes  
17 about setting rates.

18 MS. PATTI RAMAGE: So that would be for  
19 the second set of books you spoke of?

20 MR. PATRICK BOWMAN: In the event such a  
21 thing is necessary. It shouldn't be something that one  
22 would -- one would shy away from if it's necessary to  
23 achieve the objective of this Board in setting rates.  
24 It's not uncommon.

25 MS. PATTI RAMAGE: Now your evidence that



1 a portion of export revenue should be used -- it's that  
2 your portion of export revenue should be used to  
3 establish a segregated reserve, correct?

4 But, to be clear, you're also suggesting  
5 that these export revenues be deposited in the form of  
6 cash into some sort of an investment or trust account.

7 Is that correct?

8 MR. PATRICK BOWMAN: Well, as I reviewed  
9 with Mr. Peters, it's one (1) possibility that one would  
10 want to review when they did a considered review of the  
11 topic and the options. I wouldn't rule it out. The  
12 exhibit, MIPUG-14, we've put together doesn't presume  
13 that.

14 MS. PATTI RAMAGE: Well, for the purposes  
15 of my questions, if we presume we're talking about cash,  
16 would you agree that this -- if we were dealing in cash,  
17 it wouldn't be available for investing in Manitoba  
18 Hydro's assets as it is today?

19 MR. PATRICK BOWMAN: Well, I'm not  
20 talking about anything necessarily different than what  
21 we're otherwise working with. The point is the rate  
22 changes would be the same. The premise of setting aside  
23 a trust-type of mechanism would lead to some of the  
24 outcomes you're talking about, and it's one (1) of the  
25 things that would need to be considered.

1                   In the event it's not set aside as a  
2 trust-type of mechanism, it would have a different  
3 outcome. It's the type of thing that one would want to  
4 consider in doing a full review of this.

5                   MS. PATTI RAMAGE: I'm not clear in your  
6 answer because -- as I understood the mechanism you were  
7 discuss -- that you had proposed essentially boxed in  
8 those revenues; that they could only used for certain  
9 purposes. Maybe let's go there. The mechanism you're  
10 talking about could only be used for certain approved  
11 purposes.

12                   Is that correct?

13                   MR. PATRICK BOWMAN: In its simplest  
14 form, as we put out in MIPUG-14, it's no different than a  
15 form of restricted retained earnings that this Board  
16 mentioned. In other variations that might -- that might  
17 be worth considering might at the end of the day turn out  
18 to be not advised but might be worth considering -- one  
19 might think about something more along the lines of a --  
20 of a trust-type of mechanism. That brings in cash  
21 implications that didn't otherwise arise under the other  
22 scenario. But it doesn't -- as I said -- it's not a  
23 necessity, it's a variation.

24                   MS. PATTI RAMAGE: Well, under that  
25 scenario, would the cash be available for investing in

1 Manitoba Hydro's assets as it is today?

2 MR. PATRICK BOWMAN: Not in the way that  
3 the IFF would otherwise consider it. That's the point.  
4 It's the being -- if that was the mechanism that was  
5 elected, part of the reason for that type of mechanism  
6 would be to insure that this type of -- of reserve would  
7 be an entity that would earn its own interest, have a  
8 potential to grow under that -- that framework, and then  
9 -- and not be available for other uses.

10 It would reduce the cash available to  
11 Manitoba Hydro but what -- the benefits that one would  
12 need to weigh that against is that it would increase the  
13 ability to achieve stable rates during a drought. Part  
14 of the aspect of a drought that is a real hangover is  
15 that if Hydro has a big loss to its net income and it  
16 eventually has to borrow, you end up with a -- more debt  
17 going forward which causes an overhang interest effect.

18 If you wanted to find a way that a drought  
19 didn't have that hangover interest effect, you'd have to  
20 find a way that it's not being funded by new debt. In  
21 other words, you'd have to have the funds available.  
22 That's -- that's the tradeoff you'd think about when you  
23 were assessing whether some form of cash or trust  
24 accounting might -- might work for this. But, like I  
25 said, it's a variation.

1 MS. PATTI RAMAGE: So if you have to have  
2 the funds available then, you'd agree they'd have to be  
3 invested some how in a fairly short-term instrument.  
4 They wouldn't be much use if -- if they were invested in  
5 long-term.

6 Is that correct?

7 MR. PATRICK BOWMAN: It depends on the  
8 horizon under which one needs access to them. We talk  
9 about five (5) year droughts. We talk about different  
10 horizons for that. So you -- you would probably need to  
11 do a consideration of the -- the type of portfolio of  
12 investments you might consider.

13 But it's, you know, it's not that  
14 different a concept than -- than people who are -- who  
15 are dealing with some aspects of a -- of an insurance  
16 business. You -- you can consider a mix depending on the  
17 horizon under which you might need them.

18 MS. PATTI RAMAGE: But you'd agree in  
19 terms of as a -- as a drought stabilization fund,  
20 Manitoba Hydro doesn't have the ability to determine  
21 whether it -- the drought's going to happen in two (2)  
22 months, six (6) months, a year, two (2) years.

23 Is that correct?

24 MR. PATRICK BOWMAN: True, and indeed  
25 Manitoba Hydro doesn't have any idea to how long the

1 drought might last when it starts. And that -- that's  
2 part of the -- the difficulty of trying to -- trying to  
3 plan the Utility of this type.

4 MS. PATTI RAMAGE: So when that cash is  
5 sitting waiting for the drought, earning a -- I -- I  
6 would suggest a relatively low rate of interest, Manitoba  
7 Hydro would then be required to borrow money to fund it's  
8 capital programs. Is that -- that would be the follow-  
9 through of that logic.

10 Is that not correct?

11 MR. PATRICK BOWMAN: That is part of the  
12 types of tradeoffs that one needs to consider assuming  
13 that -- that the relationship you talk about bear out;  
14 that -- that the portfolio works out to be quite short,  
15 and it's -- it's matched by Manitoba Hydro having to do  
16 increased long-term borrowing. That is part of the type  
17 of relationships that would bear out and would need to be  
18 considered against the -- the benefits of going that way.  
19 That's what a considered review would do.

20 MS. PATTI RAMAGE: And it's your evidence  
21 that this cash payment or this cash can be maintained at  
22 no incremental cost to Manitoba Hydro and its ratepayers  
23 or did I just hear you say there would be an incremental  
24 cost -- that that's part of the -- the give and take of  
25 this proposal?

1                   MR. PATRICK BOWMAN:    Our evidence is that  
2 a considered review is required and that that would be  
3 one (1) option one would want to consider.  Interest rate  
4 gaps would be one (1) of the things that would work  
5 against the concept of a cash account, but it's not -- or  
6 a trust -- a investment of that type.  It may not be  
7 determinative.  It may be offsetting against other types  
8 of benefits.

9                   The -- the point is there's an interest  
10 rate gap or an interest rate risk there, but there's also  
11 an interest rate risk that if Hydro was to hit a five (5)  
12 year drought now, it might be into a hell of a round of  
13 borrowing for a series of years during which its subject  
14 to the interest rates that exist in the market at that  
15 time.  That's -- that's a risk it faces now.

16                   So there's -- there are offsetting aspects  
17 to considering a -- a mechanism of that type that -- that  
18 the insurance industry elects to use as opposed to a -- a  
19 non-cash verison.

20                   MS. PATTI RAMAGE:    Now you agreed with  
21 Mr. Mayer that higher rate increases would be required at  
22 the front end to establish the segregated reserve.

23                   Would that be another one (1) of those  
24 offsetting items?

25                   MR. PATRICK BOWMAN:    Again, it's a -- I

1 spoke with Mr. Peter's -- it's a variation. There is a  
2 variation that is solely revenue-neutral to ratepayers in  
3 the years in which this -- this is being established and  
4 being set-up.

5                   And there's a variation in which it is  
6 revenue-neutral over time, but it would lead to a -- a  
7 set of stable rates that are higher at certain times than  
8 they would have otherwise been and lower at certain times  
9 than they would have otherwise been. That's the -- the  
10 bottom of the exhibit that we put out. Again, it's not  
11 the only verison that one might want to turn their mind  
12 to.

13                   MS. PATTI RAMAGE: I'm -- I'm having  
14 trouble with the concept, and maybe you can help me. How  
15 does restricting the reserves or essentially renaming  
16 them as part of -- out of retained earnings reduce the  
17 need to incur debt due to a drought?

18                   MR. PATRICK BOWMAN: Well, you -- you've  
19 asked about two (2) different types of approaches. One  
20 (1) of which was something this Board called restricted  
21 retained earnings, and one (1) of it's just something  
22 called a -- a trust, for lack of a better term, an  
23 account, cash.

24                   If you have a mechanism set up where Hydro  
25 hits a year like they did in 2003/'04, they would

1 otherwise have a major loss, a shortfall of cash and,  
2 therefore, quite a need to borrow well beyond what they  
3 had planned. They end up with debt that ratepayers pay  
4 the interest on for some time to come. That's the  
5 hangover effect of a drought.

6                   If you have a trust mechanism where there  
7 is cash there, rather than having a \$400 million net  
8 income and no cash to deal with the operations for the  
9 year and as a result one needs to borrow, the cash is  
10 there. You don't need to borrow from the markets because  
11 the cash is available. That's the idea.

12                   MS. PATTI RAMAGE: So at the end of the  
13 day what you're really talking about is a cash management  
14 issue? This is what we're...?

15                   MR. PATRICK BOWMAN: Not at all. At the  
16 end of the day what we're talking about is a means, a  
17 comprehensive means to -- to stabilize the -- the bulk  
18 power component of Hydro's cost and to offer this Board  
19 an opportunity to put building up reserves ahead of the  
20 -- the bottom line net income so that it becomes  
21 something that they can have a reasonable degree of  
22 control over, rather than the simple system of put -- put  
23 rates in the top and see what comes out the bottom as net  
24 income that exists today.

25                   MS. PATTI RAMAGE: And if I'm hearing



1 correctly, what you're saying is you borrow sooner rather  
2 than later so isn't it better to defer borrowing?

3 MR. PATRICK BOWMAN: Again, we're talking  
4 about one (1) version where you would -- you may  
5 otherwise have to borrow sooner rather than later. The  
6 point is a certain neutrality over time.

7 So in other aspects you may borrow later  
8 rather than sooner, but in any event you do it in a way  
9 where you can manage your borrowings, and you manage a  
10 trust, and you're not subject to having to borrow at the  
11 time the drought hits, whatever the interest rate may be  
12 at that point in time.

13 MS. PATTI RAMAGE: Thank you, Mr. Bowman.  
14 Could I get you to turn to page 77 of Manitoba Hydro's  
15 annual report?

16

17 (BRIEF PAUSE)

18

19 MS. PATTI RAMAGE: You'll see at page 77  
20 a chart with the heading "Risk and Potential Range." And  
21 I was wondering if you could read -- please read into the  
22 record the list of Manitoba Hydro's major risks?

23 MR. PATRICK BOWMAN:

24 "Infrastructure, drought, loss of  
25 export markets, interest rates, and

1                   foreign exchange rates."

2                   MS. PATTI RAMAGE:    Thank you.  And one  
3                   (1) of the Utilities that I heard referenced in terms of  
4                   having a -- some type of stabilization fund was  
5                   Newfoundland.  And I'm wondering if you could turn to Tab  
6                   1 of the book of documents and at page -- page 39 of that  
7                   book of documents?

8

9                                       (BRIEF PAUSE)

10

11                   MS. PATTI RAMAGE:    Now, mid-way down this  
12                   page you'll see that Newfoundland and Labrador Hydro has  
13                   set out its three (3) main areas of risk in the -- in the  
14                   area of operations risk, and I was wondering if you could  
15                   please read into the record those three (3) areas of  
16                   risk?

17

18                                       (BRIEF PAUSE)

19

20                   MS. PATTI RAMAGE:    It's under the heading  
21                   "Operations Risk."

22

23                                       (BRIEF PAUSE)

24

25                   MR. PATRICK BOWMAN:



1 including changes in interest rates and  
2 fluctuations in foreign currency  
3 exchange rates and commodity prices."

4 MS. PATTI RAMAGE: And just so the record  
5 is clear, there's another risk identified, and that's  
6 regulatory risk just so that we have everything that's  
7 there but, Mr. Bowman, would you agree that for  
8 comparison purposes unlike Manitoba Hydro, Newfoundland  
9 and Labrador has not identified drought, water levels, or  
10 the loss of an export market as a significant risk factor  
11 in its annual report?

12 MR. PATRICK BOWMAN: Well, absolutely I  
13 can agree, and I think it's quite simple the reason why  
14 it doesn't identify drought is because it has a rate  
15 stabilization plan which is noted two (2) pages back  
16 which is one (1) of the mechanisms that we've mentioned.  
17 So it is not exposed to the risk of drought in -- in its  
18 regulated plants.

19 MS. PATTI RAMAGE: Thank you. Going back  
20 to that page you referenced, I think you were on page 31,  
21 and that was the --

22 MR. PATRICK BOWMAN: It's referenced at  
23 page 31?

24 MS. PATTI RAMAGE: That's correct. Could  
25 you, please read into the record, the first sentence of

1 the paragraph under -- the first sentence of the  
2 paragraph that's headed, "Rate Stabilization Plan."

3 MR. PATRICK BOWMAN:

4 "The RSP was established in 1986 to  
5 mitigate the impacts of fuel volatile  
6 -- the impacts of volatile fuel prices  
7 on electricity sales."

8 MS. PATTI RAMAGE: And now I'm going to  
9 take you back to page 19 of Manitoba Hydro's record, if  
10 you could get there. And here I'm going to help and do  
11 some of the reading.

12 The second sentence under the heading,  
13 "Natural Gas Rate" says:

14 "The Corporation helps lessen the  
15 impact of volatile gas prices through  
16 the use of derivative instruments,  
17 deferral account, and using gas storage  
18 and then through the quarterly  
19 adjustment of gas rates."

20 Can you confirm that I read that  
21 correctly?

22 MR. PATRICK BOWMAN: Perfectly.

23 MS. PATTI RAMAGE: Now, are you familiar  
24 with the use of the deferral accounts referenced in the  
25 Manitoba Hydro annual report?

1 MR. PATRICK BOWMAN: Only generally.

2 MS. PATTI RAMAGE: If I, and I think  
3 there's others in the room who could explain them better  
4 than I, but at a high level, a certain value, for example  
5 ten dollars (\$10) might be embedded in rates, and if it  
6 turns out the actual rate is eleven dollars (\$11) and  
7 nine dollars (\$9), that difference is put in a deferral  
8 account and then rate riders recover or refund that  
9 difference over a period of twelve (12) months.

10 Does that sound generally -- is -- is that  
11 with your understanding?

12 MR. PATRICK BOWMAN: It -- it generally  
13 sounds correct. I wasn't aware of the twelve (12) month  
14 number, but I'm not surprised by it. It generally sounds  
15 like I would understand fuel stabilization type of  
16 accounts to work in many of the Utilities I'm familiar  
17 with.

18 MS. PATTI RAMAGE: Are you familiar with  
19 Newfoundland and Labrador's fuel stabili -- rate  
20 stabilization plan?

21 MR. PATRICK BOWMAN: Yes.

22 MS. PATTI RAMAGE: Okay, could you  
23 confirm that the intent of that program is to recover the  
24 difference between the cost of fuel consumed to generate  
25 electricity and the cost upon which electricity rates are

1 based and the cost upon which electricity rates which  
2 accumulates in the RS -- rate stabilization plan?

3 And then again -- the balance is  
4 accumulated in the rate stabilization plan will be  
5 recovered in the following year?

6 MR. PATRICK BOWMAN: Not quite. You -- I  
7 see you were reading components of that, but I think you  
8 missed the key component.

9 Newfoundland's rate stabilization plan is  
10 effectively three (3) plans in one (1). It's actually  
11 got even a little bit of a fourth aspect in it. But in  
12 respect of the bulk power system, it is a fuel  
13 stabilization fund along the lines of what you note for  
14 natural gas or like you would see in many other places.

15 It is also a hydraulic stabilization fund,  
16 which is the component of the sentence in the second  
17 paragraph you -- I didn't hear you read it.

18 And it has a third component which is a  
19 load variation component which addresses differences to  
20 the Utility's revenues, resulting in changes from its  
21 overall loads.

22 MS. PATTI RAMAGE: Okay, we have the same  
23 understanding and to be clear, with respect to the  
24 hydraulic variation, that is something that's recovered  
25 at a rate of 25 percent annually?

1                   MR. PATRICK BOWMAN:   That is -- that is  
2 the fact today.

3                   MS. PATTI RAMAGE:   And that hydraulic  
4 variation was instituted into that fund in 2003, am I  
5 correct?

6                   MR. PATRICK BOWMAN:   That mechanism was  
7 implemented in 2003 as a result of a negotiated process I  
8 was involved in. The fact that there is a hydraulic  
9 component to the fund has been there since it was first  
10 implemented in 1986 and in fact there was a hydraulic  
11 fund that predated it. 1986 was just when they all got  
12 rolled together into the RSP.

13                   And previously the hydraulic portion of  
14 the account had -- had flowed through somewhat quicker.  
15 It was three years but it was calculated differently. As  
16 a result of that negotiation, it was changed to -- to  
17 four (4) years.

18                   MS. PATTI RAMAGE:   But would it be fair  
19 to say that the hydraulic or fuel, while there's  
20 different time frames, the idea is that you recover or  
21 refund the monies within a year or within four (4) years?

22                   MR. PATRICK BOWMAN:   The fuel, yes. The  
23 -- the whole point of the fuel account is not to let  
24 increases in fuel prices be a hangover -- that you really  
25 want to clear that account as quickly as possible. So



1 you take that component of the account, and you transfer  
2 it as quick as possible to current, and you charge it off  
3 to ratepayers.

4           Hydraulic is different. Because you're  
5 only taking a -- a small portion of the account if you  
6 have surplus water in one (1) year offset by low water in  
7 the next, the bulk of the year that you had surplus water  
8 those -- those funds made available to offset the low  
9 water in the next year. So that -- that 25 percent is of  
10 the accumulated balance at any given point in time and  
11 it's just to help -- help keep the -- the fund from  
12 getting to -- to bounds that -- that the Utility was  
13 uncomfortable with.

14           But the point is it's designed to maintain  
15 the bulk of hydraulic variation in that account so that  
16 it offsets highs and lows to stabilize it, which hence  
17 the name.

18           MS. PATTI RAMAGE: Would you agree with  
19 me that that rate stabilization -- rate stabilization  
20 plan is very similar to our own gas deferral accounts?

21           MR. PATRICK BOWMAN: Well, the -- the  
22 fuel aspect of the rate stabilization plan is very  
23 similar to your own gas deferral accounts.

24           MS. PATTI RAMAGE: I --

25           MR. PATRICK BOWMAN: The hydraulic is

1 not.

2 MS. PATTI RAMAGE: -- I assume, from your  
3 background, you're also familiar with the historic  
4 balances in that RSP account?

5 MR. PATRICK BOWMAN: Very much so.

6 MS. PATTI RAMAGE: Can you confirm that  
7 in August of 2002, the balance owing from customers to  
8 Newfoundland and Labrador Hydro was \$105.8 million?

9 MR. PATRICK BOWMAN: It was an awful  
10 situation. Absolutely.

11 MS. PATTI RAMAGE: And at December 31st,  
12 2003, an additional amount of 61 million was owing to  
13 Newfoundland and Labrador from its customers?

14 MR. PATRICK BOWMAN: The numbers I don't  
15 recall precisely, but the very reason I was involved in  
16 the negotiation that I talked about is because what had  
17 been previously in place in the rate stabilization plan  
18 deferred for many years the impacts of a fuel cost from  
19 previous years.

20 Rather than clearing the account within  
21 twelve (12) months like, you know, your gas utility  
22 wisely does, Newfoundland's account was not set up on  
23 that basis. So when it had rates set on twelve dollars  
24 (\$12) a barrel oil and instead oil went to forty dollars  
25 (\$40) a barrel, it accumulated a massive balance related

1 to the fuel variation component and that wasn't meant to  
2 be cleared out for five (5) years. Well, the next year a  
3 bigger balance came in and the next year a bigger  
4 balance. That's what -- why in 2003 we moved the fuel  
5 component to a much more current flow-through. It clears  
6 within a year.

7 Same time we moved the hydraulic to a  
8 longer component because the -- the premise behind  
9 hydraulic is it's naturally offsetting. It's not the  
10 same as fuel.

11 MS. PATTI RAMAGE: So that would be the  
12 post 2003 account, but the amounts that it accumulated to  
13 that point, and I believe that's in excess of \$150  
14 million, ultimately the regulator ordered balances be  
15 accumulated -- be that -- have that turn -- that  
16 converted to a long-term receivable?

17 Is that correct?

18 MR. PATRICK BOWMAN: Well, when they were  
19 dealing with this long outstanding fuel cost to pay for  
20 -- for the same thing as you have in the gas account,  
21 they elected to crystalize that balance and find a  
22 reasonable horizon they could collect it back from  
23 customers. As a matter of fact, my recollection is it's  
24 the exact same thing this Board did with Centra's gas  
25 rates in -- in 2000 or 2001 when it had the same problem

1 with a deferred account. Crystalize it, start afresh,  
2 and amortize the balance off.

3 But again we're talking about fuel there.  
4 It's very different than the hydraulic component account  
5 which is naturally offsetting. In fact as my  
6 recollection goes, had it not been for the hydraulic  
7 component having had relatively good water, the fuel  
8 account would have been even worse. But this fund  
9 offsets the two (2) against each other.

10 MS. PATTI RAMAGE: Can you confirm in  
11 2006 the government of Newfoundland found it necessary to  
12 inject \$10 million into the accumulated debt in the rate  
13 stabilization plan?

14 MR. PATRICK BOWMAN: It's not quite the  
15 story. In 2006 where there was a lingering historic  
16 balance as you talked about, the crystalized balance  
17 being amortized over five (5) years, in 2006 the Abitibi  
18 Stephenville mill closed. And it had a share of  
19 remaining hydraulic balance that had not been collected  
20 from the Abitibi Stephenville mill. And as a result the  
21 government picked up the tab for that rather than having  
22 other customers pick up Abitibi Stephenville's share of  
23 the historic balance.

24 MS. PATTI RAMAGE: Can you confirm in  
25 April of this year, two (2) weeks ago, Newfoundland and

1 Labrador Hydro applied for a 6 percent rate increase  
2 based on the updated fuel price?

3 MR. PATRICK BOWMAN: The -- they applied  
4 for a rate increase related to their retail customers  
5 which is through Newfoundland Power. The industrial  
6 customer changed companies in January. Pardon me. But  
7 again that's because they're buying oil to operate their  
8 plant at Holyrood and as -- as I'm told, oil prices have  
9 gone up recently.

10 MS. PATTI RAMAGE: Mr. Chairman, I'm  
11 looking at the time, and I'm not --

12 THE CHAIRPERSON: Ms. Ramage, we -- we  
13 can sit for another fifteen (15) -- we have a water and  
14 sewer hearing again, but we can sit for another fifteen  
15 (15) minutes. Go that long, if that would work for you.

16 How long do you think it will take? The  
17 other alternative we have is we could start tomorrow  
18 morning at 8:30.

19 MS. PATTI RAMAGE: I would suggest to try  
20 to keep on schedule, letting me go another fifteen (15)  
21 minutes, see where we're at and maybe start up in the  
22 morning.

23 THE CHAIRPERSON: Okay, but we can't go  
24 past 4:15 to make the other schedule, that's all. So  
25 please proceed. So we may shut down fairly quickly, and

1 that's just the way it is.

2

3

4 CONTINUED BY MS. PATTI RAMAGE:

5 MS. PATTI RAMAGE: Now, another rate  
6 stabilization fund you referenced during your direct  
7 testimony was that used in the Yukon, and I believe there  
8 you referenced two funds, Rate Stabilization Fund and the  
9 Diesel Contingency Fund.

10 Is that correct?

11 MR. PATRICK BOWMAN: It doesn't sound  
12 correct. Yukon rate doesn't have something called a Rate  
13 Stabilization Fund operated by the Utility. It has a  
14 government-operated Rate Stabilization Fund which is  
15 being phased out which was just a bill subsidy to  
16 customers when the mine closed.

17 The Diesel Contingency Fund is the one  
18 that -- that we're talking about that is -- has been in  
19 place to -- to deal with the type of things we're talking  
20 about.

21 MS. PATTI RAMAGE: Okay. Well, I'm going  
22 to divert for a moment and just talk about the Yukon's  
23 Rate Stabilization Fund because I -- I think we are  
24 talking about the same thing. And you did confirm that  
25 that was created by the Yukon government.

1                   Do you -- are you aware of the  
2 government's reason for phasing out that rate  
3 stabilization fund?

4                   Can you advise?

5                   MR. PATRICK BOWMAN:   We're talking about  
6 an entirely different matter here.  The Yukon  
7 government's Rate Stabilization Fund was put in place in  
8 1998 using a bunch of dollars that came to it from Canada  
9 to -- to pay for -- to lower rates, to basically  
10 subsidize rates throughout Yukon.

11                   And they did that for a number of years,  
12 eight (8) years as I recall, and then it elected that the  
13 government no longer wanted that as an expense on its  
14 books and so it's phasing out the subsidy.  They -- they  
15 chose to do that at a time where they have a new mine  
16 coming on that will help bring rates down.  That mine's  
17 scheduled to be hooked up this fall.  But it's an  
18 entirely different matter.  That's just a bill subsidy  
19 program.

20                   MS. PATTI RAMAGE:   Would you be prepared  
21 to accept, certainly based on my review of the -- the  
22 Yukon Utilities website that the government -- I -- I am  
23 not quibbling with that -- has provided as a reason for  
24 phasing out that Rate Stabilization Fund that it has  
25 prompted energy over consumption by absorbing cost

1 increases and not sending true price signals to  
2 customers.

3 MR. PATRICK BOWMAN: That's the effect of  
4 a government handing out a subsidy on their bills. The  
5 government writes a check to the utilities every year for  
6 something in the order of \$4 million, either through the  
7 actual consolidated revenue fund or through one (1) of its  
8 Crown corporations, such that they don't have to collect  
9 that money from ratepayers.

10 You subsidize bills, people don't see the  
11 price signals. That's a simple relationship that they  
12 were noting.

13 MS. PATTI RAMAGE: Finally, would you  
14 also be prepared to accept then, perhaps, subject to  
15 check, that the Yukon government has stated that rather  
16 than subsidize energy it intends to bring forward new  
17 energy efficiency programs.

18 MR. PATRICK BOWMAN: Well, that and  
19 infrastructure. When it was phased out was the same time  
20 as the government put its dollars in a contribution to  
21 the new transmission line, which will help get one (1)  
22 diesel community off of diesel and hooked up to the  
23 hydro-grid and also hook up the mine, which will allow  
24 the mine to go off diesel and allow what was otherwise  
25 surplus Hydro from the Whitehorse Hydro system to be used



1 by the mine and help keep rates down to everyone else.

2 So the -- the move was from paying dollars  
3 to people's bills every month to putting their dollars  
4 into helping infrastructure move forward.

5 MS. PATTI RAMAGE: Now dealing with the  
6 Diesel Contingency Fund, which is I think a fund closer  
7 to what the discussion was about regarding Newfoundland  
8 Power, can you confirm that the sole purpose of that fund  
9 is to reimburse the Utility for costs associated with  
10 diesel generation when there's insufficient water for  
11 hydraulic generation to meet demand?

12 MR. PATRICK BOWMAN: And vice versa. The  
13 -- the fund is so that the Utility's rates can be set on  
14 a normal basis, and the fund will serve to stabilize the  
15 costs for when Hydro is over-performing or under-  
16 performing, and as a result diesel has to be burned and  
17 -- or diesel would other -- that would otherwise be  
18 burned is saved. That's why it's got the name Diesel  
19 Contingency Fund.

20 MS. PATTI RAMAGE: Is the intention that  
21 like the Newfoundland Fund, that the fund corrects over  
22 time, that the hydraulic conditions will -- will assist,  
23 that the fund is -- will be up and down?

24 Is that correct?

25 MR. PATRICK BOWMAN: With respect to

1 Yukon's Diesel Contingency Fund, it's similar to what we  
2 talk about in Newfoundland, which is that the fund can  
3 have both positive and negative balances. It's different  
4 than things we're talking about here. My inclination is  
5 Manitoba wouldn't want to consider negative balances, but  
6 that, yes, they can go both directions, positive and  
7 negative, the same as in Newfoundland.

8 I'm sorry, I may have not had addressed  
9 the other component of your question which is balancing  
10 over time. That's correct, the fund is designed to  
11 balance over time. There has never been a rider related  
12 to the diesel contingency fund to -- to due to either  
13 high water and forecasts of high water or low water and  
14 forecasts of low water to -- to adjust rates.

15 MS. PATTI RAMAGE: You'd also agree  
16 though, that the negative financial impacts of low water  
17 in Manitoba are not symmetrical with positive financial  
18 impacts of high water?

19 MR. PATRICK BOWMAN: That's my  
20 understanding and that's one (1) of the reasons why I  
21 would say that if someone wanted to move forward with the  
22 reserve here, they wouldn't design it as one of these  
23 self-balancing plus/minus type of accounts because of  
24 exactly the reasons you note.

25 It was a kind of thing that could be bal

1 -- could be designed solely with a positive balance and  
2 solely to be made available for the times it's needed.

3 MS. PATTI RAMAGE: Lastly, just if I can  
4 go back to the Yukon Fund that we talked about, how much  
5 hydraulic capacity is generated in the Yukon?

6 MR. PATRICK BOWMAN: Basically, a 100  
7 percent of the system if that's what you mean. It's --  
8 it's almost all hydro except for a few very small diesel  
9 communities, and most of the communities in Yukon are  
10 hooked up to the grid.

11 MS. PATTI RAMAGE: Would you agree,  
12 subject to check, that there is 75 megawatts of hydraulic  
13 capacity?

14 MR. PATRICK BOWMAN: I'm sorry. You're  
15 talking quantity, not relative proportion. In terms of  
16 quantity, seventy five (75) sounds pretty close.

17 MS. PATTI RAMAGE: Would you agree there  
18 -- the diesel capacity's 39 megawatts?

19 MR. PATRICK BOWMAN: If it's a number you  
20 got off a website or something, it sounds pretty close.  
21 They're -- they're in the process of bringing back an old  
22 5 megawatt unit out at Faro (phonetic) and, it seems to  
23 me, it may be in addition to that. But -- but that's the  
24 range.

25 MS. PATTI RAMAGE: And on that same

1 website -- because I'll just give you my number rather  
2 than having you go check -- it indicated the balance of  
3 that fund in 2006 was eight hundred and twenty-one  
4 thousand dollars (\$821,00).

5 Does that sound about right?

6 MR. PATRICK BOWMAN: I think that's  
7 correct. It was at zero for awhile. The Board had  
8 directed it be drawn down, but I think that there was a  
9 insurance settlement that related to an -- retroactive  
10 adjustment to the fund that brought it up towards a  
11 million dollars. So that sounds -- that sounds quite  
12 close.

13 MS. PATTI RAMAGE: I'm moving to another  
14 area. I don't know -- I think it will take ten (10), not  
15 five (5) minutes.

16 THE CHAIRPERSON: Okay. And then you  
17 have another area after this next area?

18 MS. PATTI RAMAGE: Yes.

19 THE CHAIRPERSON: Mr. Peters, some  
20 advice. We can start tomorrow morning at 8:30 if we're  
21 at risk of not completing tomorrow.

22 MR. BOB PETERS: I'm looking to see if  
23 Mr. Harper's in the room but I do know that he's here and  
24 I also know that Mr. Dunsky will be here for tomorrow  
25 morning.

1 THE CHAIRPERSON: Well, why don't we be  
2 careful and start at 8:30?

3 MR. BOB PETERS: I would -- I would  
4 recommend that approach and -- or else make it up  
5 throughout the course of the day, but 8:30 would be  
6 better.

7 THE CHAIRPERSON: Okay, 8:30 it is.  
8 Thank you, everyone.

9

10 (WITNESSES RETIRE)

11

12 --- Upon adjourning at 4:08 p.m.

13

14

15 Certified correct,

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20 Cheryl Lavigne

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