

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

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 21st, 2008
Pages 3861 to 4214

APPEARANCES

1
2
3 Bob Peters)Board Counsel
4
5 Doug Buhr)City of Winnipeg
6
7 Byron Williams)Coalition
8
9 Jennifer Scott (np))TransCanada Keystone
10 Tamara Trull (np))Pipeline
11
12 Tamara McCaffrey)MIPUG
13 John Landry (np))
14
15 Michael Anderson)MKO
16
17 Patti Ramage)Manitoba Hydro
18 Odette Fernandes)
19
20 Bill Gange)RCM/TREE
21 Dan Rempel (np))
22 Peter Miller)
23
24
25

1	TABLE OF CONTENTS	
2		PAGE NO.
3	List of Exhibits	3864
4		
5	Final Submissions by City of Winnipeg	3869
6	Final Submissions by Coalition	3875
7	Final Submissions By MIPUG	4110
8	Final Submissions by RCM/TREE	4149
9	Final Submissions by MKO	4183
10		
11	Certificate of Transcript	4214
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

1	LIST OF EXHIBITS		
2	EXHIBIT NO.	DESCRIPTION	PAGE NO.
3	RCM/TREE-6	Response to Undertaking 90	3866
4	RCM/TREE-7	Response to Undertaking 91	3866
5	RCM/TREE-8	Response to Undertaking 92	3866
6	RCM/TREE-9	Written response to question posed of	
7		one of the RCM witnesses by Coalition	3867
8	COALITION-43	Response to Undertaking 94	3867
9	MIPUG-17	MIPUG written submissions	4113
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

1 --- Upon commencing at 9:02 a.m.

2

3 THE CHAIRPERSON: Good morning, everyone.
4 Welcome to the first day of two (2) days of closing
5 statements, Manitoba Hydro GRA.

6 Mr. Peters, do you want to remind us what
7 we have come back to do?

8 MR. BOB PETERS: Thank you, and good
9 morning Mr. Chairman, Mr. Vice Chair, Board Member
10 Proven, ladies and gentlemen.

11 As you've indicated, Mr. Chairman, today
12 and Friday have been set aside by the Board as dates for
13 oral closing submissions. And the parties will address
14 those and provide those with -- to you today and also on
15 Friday.

16 There's a couple of matters for keeping
17 the record in order that I'd like to tend first. And
18 that is that undertakings have been provided. Manitoba
19 Hydro has completed answers to all of their undertakings.

20 I'm not to suggest that all of their
21 undertakings have been given an answer, as there was a
22 least one (1), maybe others that an answer isn't readily
23 available at this time. But I think, for example, the
24 financial statements were coming by mid -- or
25 approximately mid-next month. But having said that,

1 they've responded to all of the undertakings that they've
2 given.

3 We have received from RCM/TREE answers to
4 the transcript undertakings. And those have been given
5 exhibit numbers offline. And for the purposes of this
6 morning, I'd like to just record them on the record.

7 Undertaking Number 90 provided by RCM/TREE
8 will be marked as Exhibit RCM/TREE-6.

9

10 --- EXHIBIT NO. RCM/TREE-6: Response to Undertaking 90

11

12 MR. BOB PETERS: Undertaking 91 by
13 RCM/TREE will be marked as Exhibit RCM/TREE-7.

14

15 --- EXHIBIT NO. RCM/TREE-7: Response to Undertaking 91

16

17 MR. BOB PETERS: Undertaking 92 will be
18 marked as Exhibit RCM/TREE-8.

19

20 --- EXHIBIT NO. RCM/TREE-8: Response to Undertaking 92

21

22 MR. BOB PETERS: And there was also a
23 question posed of one of the RCM witnesses by Coalition.
24 That has been responded to in written form and
25 circulated. And I propose that be marked as RCM/TREE-9.

1 --- EXHIBIT NO. RCM/TREE-9: Written response to
2 question posed of one of the RCM
3 witnesses by Coalition
4

5 MR. BOB PETERS: In addition to those
6 exhibits, there was one more exhibit filed by Coalition.
7 It was Undertaking Number 94 on the record. And I
8 propose it be marked as Coalition Exhibit Number 43.
9

10 --- EXHIBIT NO. COALITION-43: Response to Undertaking
11 94
12

13 MR. BOB PETERS: If there are any further
14 undertakings that the parties have, they should notify
15 the Board of that during their -- their opportunity with
16 the microphone today or Friday.

17 So Mr. Chairman, Mr. Vice Chair and Board
18 Member Proven, the Board has multiple copies of Manitoba
19 Hydro's Letter of Application that was filed in both Tabs
20 1 and Tab 41 of the PUB counsel book of documents. That
21 document sets out the specific and formal requests by
22 Manitoba Hydro of the Board in this General Rate
23 Application. In addition, and in some cases in
24 duplication, the Board on the last day of the evidentiary
25 phase of this General Rate Application, at transcript

1 page 3854 and following, set out approximately thirty
2 (30) issues that the board invited parties to address in
3 their closing submissions if they so chose. I am not
4 going to repeat those thirty (30) issues. They're there
5 for all to review and I've seen that some will respond to
6 them and have.

7 The thirty-first item in that list, Mr.
8 Chairman, was an open-ended invitation to address any
9 additional matters not specifically enumerated by the
10 Board.

11 As counsel to the Board in these
12 proceedings, I take no position on the merits of any of
13 the issues before the Board. And I'll suggest that the
14 Board soon call on Mr. Williams to provide the
15 Coalition's submissions. Following Mr. Williams, I
16 suggest that the Board call on Mr. Buhr from the City of
17 Winnipeg, representing the City of Winnipeg; then Ms.
18 McCaffrey on behalf of MIPUG; Mr. Anderson on behalf of
19 MKO; and Mr. Gange on behalf of RCM/TREE. I can advise
20 that Keystone will not be providing oral closing
21 submissions in this GRA proceeding.

22 It is our hope that the submissions will
23 conclude today from the Intervenors. But if not, we will
24 discuss it and present to the Board an alternate plan in
25 terms of making sure this oral submissions conclude

1 Friday of this week.

2 Following the Intervenor and on Friday,
3 and no earlier than Friday, the Board will hear from
4 Manitoba Hydro, Ms. Ramage, and Ms. Fernandes on Manitoba
5 Hydro's closing submissions.

6 So, Mr. Chairman, thank you. Subject to
7 any questions you may have of me at this time, that
8 completes my comments this morning.

9 THE CHAIRPERSON: Thank you, Mr. Peters.
10 So following your advice, we will move on to Mr. Williams
11 for the Coalition.

12 MR. DOUG BUHR: I think, Mr. Chairman, he
13 was checking to see if his outline was here. There was
14 some delay apparently in -- in it being provided.

15 THE CHAIRPERSON: Are you prepared to go
16 now, Mr. Buhr?

17 MR. DOUG BUHR: Yes, Mr. Chairman.

18 THE CHAIRPERSON: Then, please proceed.

19 MR. DOUG BUHR: Thank you.

20

21 FINAL SUBMISSIONS BY CITY OF WINNIPEG:

22 MR. DOUG BUHR: Mr. Chairman, members of
23 the Board, all the references that I will be using are to
24 the book of documents that the City produced at
25 City/Hydro Exhibit 2, Exhibits 3 and 4, and pages 260 --

1 2265 to 2294 of the transcript.

2 I carefully considered the Chairman's
3 suggestion regarding submitting copies of the argument.
4 In my case this created somewhat of a quandary, as given
5 the brief nature of my comments, people would have
6 finished reading them before I got past the first
7 paragraph. While some might suggest that this would be
8 advantageous to my position, I respectfully disagree.

9 The Chairman's listing of the issues,
10 however, and their complexity perhaps explain but do not
11 excuse why area and roadway lighting class problems
12 appear to have gotten lost in the shuffle for far too
13 long.

14 Hydro says that area and roadway lighting
15 has persistently been above the zone of reasonableness.
16 With respect, that's a gross understatement. As the
17 chart at Tab 2 of the book of document shows, only once
18 in thirty (30) years have we been within the zone.

19 Hydro agrees that the '99 and 2001 RCCs
20 are an aberration. That's transcript pages 2270 to 2271.
21 Even Hydro acknowledges that however or by whatever means
22 area and roadway lighting is measured, it has been
23 outside the zone. That's Exhibit 2, Tab 1, and Exhibit
24 3.

25 Over the year Hydro has reaped

1 approximately \$49 million in excess from this class.
2 That's Exhibit 4.

3 The history of this class is very simple.
4 Only when this Board orders a change does anything
5 actually happen. For example, in 1996/'97 Hydro proposed
6 zero (0) percent increases. It was the Board that
7 ordered 5 percent cuts in each of those two (2) years.
8 That's transcript pages 2282 to 2283.

9 Being within the zone once is not a record
10 to be proud of. When I suggested in cross-examine that
11 Hydro had not been aggressive in dealing with that issue,
12 that too is an understatement.

13 So what has Hydro proposed to deal with
14 the issues? Firstly, the absolute bare minimum change to
15 get us withing the zone, a 0.2 percent change so that the
16 RCC would now be one-o-four point eight (104.8). Then we
17 should pay an additional two hundred thousand dollars
18 (\$200,000) more per year. That's the book of documents
19 Tab 1 and the transcript pages -- page 2267.

20 Hydro proposes nothing to address the six
21 hundred and twenty thousand dollar (\$620,000) excess the
22 city is now paying each year. It's \$1 million for the
23 entire province. And the references are Tab 2,
24 CITY/HYDRO-1-3, C and D, and transcript page 2293.

25 This is not a serious attempt by Manitoba

1 Hydro to rectify anything. And it's only consistent with
2 thirty (30) years in inaction or neglect. In fact Hydro
3 proposes to take an additional five (5) to seven (7)
4 years on top of the thirty (30) they've already had.
5 That's transcript pages 2285 to 2286.

6 The additional cost of that to the city
7 alone is \$5.7 million, six hundred and twenty thousand
8 (620,000) plus two hundred thousand (200,000), times
9 seven (7). These are taxpayers' dollars that the city's
10 elected representatives should be deciding how best to
11 use, not Manitoba Hydro.

12 Now, what's the cost of Manitoba Hydro to
13 fix this problem? The answer, 0.4 percent of its
14 projected revenue for fiscal year 2007/2008. Transcript
15 pages 2293 and 2294, 0.4 percent of one (1) year.

16 Mr. Chairman, members of the Board, Hydro
17 has known of this problem for thirty (30) years. Their
18 proposal amounts to letting it continue, even in the face
19 of being able to correct it simply and easily.

20 That is not fair nor reasonable nor in the
21 public interest. There's nothing new or startling in
22 what I've said. Indeed, as I said in my opening comments
23 many days ago, I am almost embarrassed to be here taking
24 up the Board's time for such an obvious issue.

25 Having been through the Hearing, I dare to

1 suggest that I am not the only one who should be so
2 embarrassed by the persistent lack of action on a simple
3 problem with a known solution. Literally, enough is
4 enough. Thank you.

5 THE CHAIRPERSON: Thank you, Mr. Buhr,
6 for your closing submissions on behalf of the City of
7 Winnipeg.

8 Mr. Buhr, I now understand that you are
9 planning to retire from the City of Winnipeg's law
10 department? I hope I have that correct.

11 MR. DOUG BUHR: Yes, Mr. Chairman.

12 THE CHAIRPERSON: Let me say on behalf of
13 the Public Utilities Board that we want to thank you for
14 your participation in regulatory matters before the
15 Board.

16 Your involvement has included representing
17 Winnipeg Hydro as well as the City of Winnipeg. Your
18 approach has always been -- and again today -- direct and
19 straight to the point. While the Board does not keep a
20 scorecard, your involvement appears to have been
21 successful, including financially successful for your
22 clients.

23 We hope you have enjoyed your appearances
24 before this Board, even if we have disagreed with you on
25 occasion.

1 Even in the GRA before us, the evidence
2 discloses Manitoba Hydro has not sought the same
3 percentage increase from your clients as compared to all
4 other rate classes. That speaks to the effectiveness of
5 your work.

6 You have obviously influenced Manitoba
7 Hydro, but I must caution you. It remains to be
8 determined through this panel's deliberations the extent
9 to which you have persuaded this Board on the merits of
10 your client's position.

11 On a more serious note, please accept our
12 best wishes for your health and happiness in your
13 retirement and all that it entails. Thank you again.

14 MR. DOUG BUHR: Thank you very much, Mr.
15 Chairman.

16 THE CHAIRPERSON: Mr. Williams, are you
17 ready to go now?

18 MR. BYRON WILLIAMS: Yes, I am. I do
19 have a -- a couple of handouts. And I caution, I will
20 not be as brief or as succinct as Mr. Buhr.

21 THE CHAIRPERSON: We would be shocked if
22 you were, Mr. Williams.

23

24

(BRIEF PAUSE)

25

1 THE CHAIRPERSON: Okay, Mr. Williams, we
2 have the distribution.

3

4 FINAL SUBMISSIONS BY COALITION:

5 MR. BYRON WILLIAMS: Thank you. Mr.
6 Chairman and members of the Board, good morning. I
7 should know that -- note that in the audience is the
8 Executive Director of the Manitoba Society of Seniors,
9 Ms. Kimberly Weihs -- W-E-I-H-S. She's over to the back
10 behind the court reporter. And Ms. Desorcy, whose
11 timeliness is -- rivals my own, I -- I notice has just
12 shown up in the room as well. And she's the Executive
13 Director of the Consumer's Association.

14 And, just for the benefit of the Board, I
15 -- I have provided to -- to assist in -- hopefully, in --
16 in terms of the argument on behalf of my clients, two (2)
17 stapled documents.

18 One is merely a compilation of some
19 exhibits that are already on the record in this
20 proceeding. And that's -- it's got the nice coloured
21 graph on the -- on the front page.

22 And the -- the second is an outline of the
23 closing argument of the -- of the Coalition, and I
24 propose to take you through it.

25 I just want to start chatting very briefly

1 about my clients. And this is the second time that we've
2 brought together this particular Coalition, and it's
3 composed of three (3) groups, one being the Consumer's
4 Association, who are well known to the Board. And they
5 certainly speak for and hear from and represent a wide
6 spectrum of consumers, those from a variety of levels of
7 income, some of them employed in the labour force, some
8 on fixed incomes.

9 And their long-time partner -- hopefully,
10 not in crime, but before this Board -- is the Manitoba
11 Society of Seniors. And, again, the point I wish to make
12 is that, again, they represent a spectrum of consumers as
13 well. Some of them are -- many of the members of the
14 MSOS are on fixed incomes, but many are still in the
15 labour force.

16 And the -- the newest member of the team
17 is Winnipeg Harvest. And obviously it's the largest food
18 bank in the Province of Manitoba. And it serves many
19 low-income people. Some of them are on assistance, EI,
20 or disability. Many of them are the working poor.

21 And collectively, we would suggest to you
22 that they bring a broad perspective to this Board. And
23 at times, it's a difficult balancing act between these
24 spectrum of those on fixed incomes, those in the labour
25 force, those on assistance. But they approach this

1 looking at three (3) important issues of fairness in the
2 marketplace, affordability, and -- and sustainability.

3 Moving on to the second page of the -- or
4 page 3 of the outline, I just want to highlight there was
5 a comment made, actually by Mr. Chernick on behalf of
6 TREE/RCM, and who is a impressive witness in this -- this
7 Hearing. But he made a statement on a number of
8 occasions, on the record, that disturbed my clients a
9 little bit.

10 And I just -- he talked about the
11 importance of implementing inverted rates. He also
12 talked about the fact that he didn't want to see some
13 percentage or some fraction of low-income consumers --
14 customers getting in the way of the implementation of
15 inverted rates. And I've given you one (1) cite from the
16 trans -- transcript that appears on a number of
17 occasions.

18 And I want to make it clear that my
19 clients don't consider themselves as -- as, or the people
20 they represent, as people in the way. They don't
21 consider themselves as obstacles to progress. They share
22 many of the same goals and outlooks as others in this
23 proceeding: TREE, MKO, Hydro, and MIPUG.

24 The values of sustainability are important
25 to them as are the value of price signals. And they,

1 like others in this room, are committed to the importance
2 of a stable, self-sustaining Manitoba Hydro, recognizing
3 that importance to the province. And they're also
4 committed to the value of affordable, high-quality
5 service.

6 The perspective that they did -- bring to
7 this proceeding which may differ somewhat -- and I don't
8 want to exaggerate the difference -- perhaps differ from
9 other organizations, perhaps they focus -- provide a
10 greater focus on the reality and current stresses on
11 consumers in the marketplace, and perhaps as well, a more
12 nuanced approach to the complexities of human behaviour
13 with somewhat less emphasis on price signals as a path to
14 energy efficiency.

15 And I want to talk about both those
16 subjects just for a -- a few moments. First, about --
17 about consumers in the marketplace of 2008. And the
18 Board, on page 4, may be seeing some language that is
19 quite familiar to them, coming as it does from its
20 comments in the Payday Lending proceeding.

21 But one (1) of the client -- the points my
22 clients wish to make, looking as -- as we are at a
23 approval or consideration of a 2.25 percent increase for
24 '07/'08 and a 2.9 percent increase proposed for '08/'09,
25 is that within Manitoba, and indeed within Canada, there

1 are many households in financial dist -- distress.

2 And this was highlighted by the PUB in
3 Order Number 39/'08 at page 48. It spoke about a growing
4 inequality of disposable family income over the last
5 twenty (20) years, with the bottom 40 percent of
6 households noting no improvement in the real after-
7 inflation disposal income.

8 And the point the Board appeared to be
9 making at page 49 of that decision, with that while the
10 incomes of the poor have not risen in real terms, the
11 costs of living has. Housing prices have risen dramatic
12 -- dramatically, leading to reduced levels of home
13 ownership and increasingly high rent levels. The
14 disposal income of, in quotation marks, "poor households"
15 pressured not only by rising occupancy costs but also
16 energy pricing, transportation, and a variety of other
17 pressures.

18 And again the Board, in that decision,
19 cited as another indication of household financial
20 distress the annual level of natural gas disconnections
21 in recent years, between five thousand (5,000) and nine
22 thousand (9,000) households.

23 And one piece of evidence that come --
24 that has come up in this Hearing has -- has confirmed the
25 fact that this distress -- this financial stress is not

1 just being experienced by natural gas customers.
2 Residential electrical dis -- disconnections in '07/'08,
3 per Hydro Exhibit 81, over almost nine thousand eight
4 (9,008), being a total of eight thousand nine hundred and
5 forty (8,940). So again, household distress.

6 It's an important point my -- my clients
7 wish to make. And -- and staying on the consumers in the
8 marketplace, this will lead later in the discussion to
9 low-income energy efficiency and also inverted rates.

10 One of the things that my clients wish to
11 point out at page 5 of the outline is the dynamic of the
12 Manitoba housing marketplace. About thirty (30) percent
13 of the marketplace is rented homes. And excluding duplex
14 apartments, there's almost 98,000 apartment units. And
15 of course, these apartment units are -- are excluded from
16 the target group for the Low-Income Energy Efficiency
17 Program.

18 And it's important, not only because they
19 are excluded, but because renters, as highlighted at --
20 on the middle of this page, are a particularly
21 economically disadvantaged group. Their average
22 household income is significantly lower than the Manitoba
23 average, as is median household income for renters.

24 And it's also reflected in real housing
25 affordability challenges, not just for renters, but for

1 homeowners as well. And housing affordability is often
2 measured in Man -- in Canada as those spending 30 percent
3 or more of their income on shelter. And we see that for
4 renters in Winnipeg and the rest of Manitoba it's in the
5 range of 35 to 40 percent. And for owner-occupied
6 households, it's still above 10 percent.

7 So one of the -- the points my clients
8 wish to make is within this market place there is
9 tremendous financial distress -- distress being
10 experienced by some consumers, stagnant incomes, rapidly
11 escalating prices. And there are real energy affordi --
12 affordability challenges. And this was reco --
13 recognized by Mr. Weiss in his TREE exhibit, RCM/TREE
14 Exhibit 8.

15 Another point my clients wish to make,
16 moving to page 6 of their outline, is that when we look -
17 - and this, again, goes later on to the subject of
18 inverted rates. When we look at all-electric homes,
19 those which are likely to be most subject to the impact
20 of the proposed inverted rates, first of all, we should
21 recognize that most new homes in rural areas are
22 installing electric water and space heat.

23 And that secondly, and this is from the
24 2006 Hydro load forecast, many of the new all-electric
25 homes are being built in First Nation communities, which

1 don't have access to the competitive alternatives, such
2 as natural gas. And, of course, we are well and sadly
3 familiar with the reality that First Nation homes on
4 reserve have a disproportionate percentage of low-income
5 persons.

6 So my clients wish to point out just,
7 again, in conte -- for the purpose of context, that there
8 is a low-income context to the subject of inverted rates.
9 It's established, and this is set out at page 3711 of the
10 transcript, that those using 18,000 kilowatt hours per
11 year on average will tend to see their rates rise more
12 than the average as a result of the Hydro inverted rate
13 proposal.

14 And what we wish to point out is that 22
15 percent of those earning less than thirty thousand
16 dollars (\$30,000) a year are in that category. Most of
17 these are all-electric customers.

18 And, just at the bottom of the page,
19 again, we point out that the trend -- and if you go to
20 the bottom right-hand corner, you can see that in terms
21 of rate changes over the last four (4) years, looking
22 towards the proposed 2008/'09 rate increases, the assumed
23 monthly consumption of 1,500 kilowatt hours per month --
24 18,000 kilowatt hours per year -- is a group that's
25 suffering or experiencing the greatest impact.

1 Turning to page 7, another important
2 contextual point my clients wish to make deals with the
3 complexity of consumer behaviour. And without naming
4 names, I think it's clear that -- that some organizations
5 within this room may be supportive of significantly
6 raised electricity rates, the idea and the purpose being
7 the assumption that dramatic rate increases will lead to
8 significant and important energy efficiency gains and
9 benefits.

10 And the point we wish to make on behalf of
11 our clients for the next couple pages is that, well,
12 that's a simplistic and attractive approach to some.
13 That's not an approach that's consistent with what we
14 know of consumer behaviour. It's not consistent with
15 what empirical evidence we have, in terms of consumer
16 behaviour.

17 And Mr. Kuczek, on behalf of Hydro -- I
18 had a bit of discussion with him on this in the early
19 days of the Hearing. He noted -- and perhaps it's trite
20 -- he noted it's a complex matter to predict and affect
21 consumer behaviour. And there are different schools of
22 thought.

23 The neo-classical one -- and I see a typo
24 here -- armed with perfect information, not behaviour, in
25 a perfectly competitive, market consumers will tend to

1 act in a rational matter -- manner that maximizes their
2 self-interest.

3 And that's an important and
4 straightforward way of looking at -- at consumer
5 behaviour. But there's other ways equally valuable, such
6 as the New Keynesian or Institutionalization approach,
7 which tells us we can't understand consumer behaviour in
8 the marketplace unless we understand deeper societal or
9 contextual issues, such as poverty, inequality in
10 information, and inequality of market power.

11 And Mr. Kuczek quite rightly pointed out
12 that in the real world consumer behaviour does not
13 perfectly accord with consumer theory.

14 And Mr. -- Mr. Chernick made this point as
15 well. He spoke of the complexity of human behaviour and
16 -- and of the reality that behaviour in theory and
17 behaviour in practice may not always move in the same
18 direction.

19 And we had a candid discussion with him in
20 terms of some of the Coalition exhibits, 33 through 35.
21 Mr. Chernick was talking about how consumers might react
22 to inverted rates and the dampening effect on price
23 signals that budgets have. And he noted that there's
24 some people who basically only pay attention to the size
25 of the cheque. And if these consumers run the budget

1 point. But I don't want to understate it either.
2 Appropriate price signals do not necessarily achieve
3 efficiency. And Chernick pointed this out. And again,
4 he was a candid and -- and helpful witness.

5 Many economic signals in terms of energy
6 use are difficult for consumers to respond to without
7 some assistance. There are a lot of barriers. To a
8 certain degree adopting a New Keynesian or
9 Institutional approach.

10 Philippe Dunsky, who was a, I think, a
11 very credible and important witness on behalf of the
12 Coalition, made this point perhaps more eloquently.
13 There are many barriers in the marketplace that lead to
14 very energy-efficient decisions and investment decisions
15 in the market.

16 And I do want to spend a couple more
17 minutes on this, because it -- it leads to some of the
18 arguments that come -- come later, in terms of energy
19 efficiency, inverted rates, and also marginal price
20 costing.

21 In Dunsky's evidence on the last day of
22 the Hearing, PowerPoint slide Number 4, he identified
23 twelve (12) barriers to efficiency. And I'm not going to
24 go through -- through them. I'm sure the Board is -- is
25 familiar with them.

1 Bur right near the bottom is one (1), one
2 (1) of the twelve (12), average cost pricing. And we
3 were hoping that someone would ask Mr. Dunsky, Well --
4 well why don't we just go to marginal cost pricing?
5 Won't that solve everything? We were hoping someone
6 would ask him that but no one took the bait.

7 So we don't have Mr. Dunsky's point on
8 that. But Mr. Wiens has been very helpful on this
9 subject. And he talked about price signals, energy
10 efficiency, and inelastic demand. And he pointed, out as
11 the Vice-Chair -- Vice-Chair did just recently, that
12 energy is a bit of a different commodity.

13 Economic theory suggests that consumers'
14 demand for energy is less sensitive to price change than
15 the demand for other commodities. And that's
16 particularly in the short term.

17 But Mr. Wiens also pointed out, when one
18 goes from the short term to the longer term, while the
19 elasticity numbers will go up, but, typically, the
20 general consensus, the conventional wisdom, is that
21 they're still going to be inelastic. Response is going
22 to be inelastic. You're still not going to get a
23 response to price that is, in terms of the quantity
24 demanded, that is as great as the change in price.

25 And I'll just note that often in -- in

1 this argument I paraphrase witnesses, and if I do so, I
2 do that without quotation marks. When I'm trying to
3 quote them, I -- I put them in quotation marks.

4 And there's some very interesting
5 empirical information on this point on this record.
6 Coalition Exhibits 31 and 32 make this point. And one of
7 the most interesting and the most recent was by the RAND
8 Corporation. And I won't dwell on it at length.

9 But this was a tremendously comprehensive
10 study. It involved a thirty (30) year literature review.
11 It had state-level data on residential and commercial
12 electricity consumption for forty-eight (48) states. And
13 it reached some key conclu -- conclusions, which my
14 clients would submit should inform the debate in this
15 proceeding.

16 Key conclusion Number 1: In terms of
17 energy, the relationship between demand and price is
18 small. Demand is relatively inelastic to price. In the
19 past twenty (20) years, this relationship has not changed
20 significantly.

21 And I've reproduced the table from that --
22 page 23 of that study, which shows both short-run
23 elasticity and long-run elasticity from this study. And
24 this is a global number. There were very distinct
25 regional differences. But there's a -- the top column --

1 the top line "Residential Electric". Again, you can see
2 the -- the point that even over the long run, the
3 response, in terms of demand, is not proportionate to
4 price, although it's much closer for the commercial
5 customers.

6 There's another important observation from
7 -- from the RAND Corporation. And, again, this was a US
8 study, so they didn't have the benefit of -- and it did
9 not include Alaska. So they didn't have the benefit of
10 Manitoba winters. But, again, going to the Vice=Chair's
11 comment:

12 "Locations where particular energy uses
13 are very valuable, such as air
14 conditioning [there's a typo there] in
15 southern states or winter heating in
16 northern states, could have price
17 elasticity smaller in absolute magnitude
18 because air conditioning and heating are
19 so valuable during periods of extreme
20 clim -- climate. The consumers are
21 unwilling to change their use when
22 prices change."

23 And I've just put in an excerpt from
24 another study. It's a household study from California,
25 the Reiss and White Study. And I think that's an

1 interesting one, merely because it focussed on Calif --
2 on residential households exclusively, and it was using
3 1993 and '97 data. But it was trying to study the likely
4 effect of the controversial new tariffs in response to
5 the energy crisis in California in 2000/2001.

6 And its general conclusion was that most
7 households will alter their electricity consumption very
8 little in response to price change. But it did point
9 out, in fairness, that a small fraction would react.

10 And my clients don't want to be
11 misunderstood on this point. They're not here to tell
12 you that price signals are unimportant. And they would
13 note that while still relatively inelastic, a commercial
14 and industrial customers are more price elastic.

15 And, as Mr. Wiens pointed out, and in
16 particular, large, energy-intensive industries have
17 significantly higher elasticity. And even at the
18 residential level, some residential uses will have
19 virtually zero, while some will have relatively higher
20 usages.

21 The points my clients wish to make though
22 is from an efficiency perspective. So if efficiency
23 matters more than ideology, price signals are far from a
24 magic bullet. And the Coalition will argue in the course
25 of this -- this closing argument that there's much more

1 to be gained by focussing on those other eleven (11)
2 barriers and raising awareness than by dramatic price
3 change.

4 Hopefully, I'll start moving into some,
5 though not all, of the thirty-one (31) issues that the
6 Board has requested a comment on. And I can assure you,
7 I -- I -- on behalf of my clients, I wasn't able to take
8 instructions on all thirty-one (31).

9 But before moving there, just by one --
10 one more point of introduction. From my clients'
11 perspective, this is not just another rate hearing.

12 It's very important, not only for
13 consumers who are in distress today, but from a clients'
14 perspective, for consumers and the province in -- as we
15 contemplate what appears to be a major -- I -- I've
16 called it an "expansive agenda." And I've thrown out
17 the figures of thirteen (13) or \$14 billion in major
18 capital projects which way -- may be coming down the
19 regulatory agenda in Manitoba in the next few years.

20 We think that this Hearing's particularly
21 important because this push for expansion comes at the
22 same time as we have some preliminary and early, but
23 sobering, experience from Wuskwatim.

24 We see that the cost estimates, the
25 capital estimates, were dramatically higher than

1 projected than expected. We've seen the impact on the
2 Corporation's bottomline from declining -- the declining
3 US dollar, relative to the Canadian dollar. And we've
4 seen a significant downward revision in the pro --
5 projected internal rate of return for Wuskwatim. And
6 that's in Hydro Exhibit 56, the long-awaited and
7 valiantly fought on behalf of Hydro, reluctantly given,
8 exhibit.

9 And we think that this is more than just
10 another rate hearing because this push for expansion
11 comes at the same time as we're seeing upward pressure on
12 rates, both from the significant expenditures on the new
13 building and from Wuskwatim and from other capital
14 projects.

15 And certainly, speaking on behalf of my
16 clients, they're certainly not taking any positions. But
17 that's causing them to look with perhaps a far more
18 agnostic, a far more jaundiced eye than in 2003 on major
19 capital projects aimed at the export market.

20 So the cautionary note my clients offer in
21 this proceeding is that while it's exciting and it's
22 important and these are important issues for the province
23 -- the major capital expansion -- they see that in -- in
24 there's a real risk that in the rush to expand, in the
25 rush to do glamorous, big, and important things, there's

1 a risk that -- that we, collectively, will overlook the
2 less glamorous but just as important other things, such
3 as addressing the multiplier barriers to efficiency --
4 energy efficiency; such as insuring that all Manitobans,
5 including tenants and low-income persons, have the
6 opportunity to full a -- fully benefit from energy
7 efficiency programming; such as bringing more discipline
8 -- long-awaited discipline to OM&A expenditures; and
9 bringing more rigour to the Corporation's approach to sus
10 -- to sustaining, S-U-S-T-A-I-N-I-N-G, capital
11 expenditures.

12 From my clients' perspective, this is a
13 very important Hearing, because it's important to get the
14 fundamentals in place before we address complex questions
15 -- the complex questions posed by massive capital
16 expansion focussed in large degree on the export market.

17 So turning to page 11, my clients' list of
18 core issues is not thirty-one (31), although I think
19 we'll answer more than five (5). But these are the --
20 the five (5) questions that they'll seek to offer answers
21 to -- or five (5) bullets that they'll seek to offer
22 answers to in the course of the next little while.

23 First of all, has the Corporation met its
24 onus of justifying the rate increase sought? Is the rate
25 increase too much, as some might argue? Is it too

1 little, as I -- certainly my clients suspect some will
2 argue? Or is it just right? Kind of like the bears and
3 porridge.

4 Secondly, what is the experience of
5 Wuskwatim? Are there lessons to be learned as we look to
6 a potential decade of major capital expansion?

7 Third, and this is a long-term objective,
8 can we improve the regulatory process in order to assist
9 intervenors, the regulator, the utility, and consumers as
10 a whole? And one of the questions, but only one of them,
11 that we'll address in this section is that with reference
12 to the rate-setting process. Should we continue to rely
13 on the Corporation's current debt/equity target?

14 Fourth, is the Corporation getting optimal
15 bang for the buck when it comes to energy efficiency?
16 What is the optimal way to reduce barriers to energy
17 efficiency for all consumers, including those who are
18 often excluded, tenants and low-income people?

19 Related to that, in my clients'
20 submission, is a question of, Has the time come for
21 inverted rates for residential customers?

22 Finally and very importantly, how do we
23 achieve fairness -- best achieve fairness among rate
24 payers? Does the subject of fairness include
25 consideration of how the consumption activities of one

1 used language such as "among the lowest electricity rates
2 in North America."

3 And very briefly, in the exhibits that we
4 have -- and it's fair to say, I think, that Manitoba,
5 although it can no longer claim to have the lowest rates
6 on average in North America, still -- still has among the
7 lowest electricity rates in North America.

8 And I just draw your attention in the
9 table of the supplementary book of exhibits. I've
10 included on the last two (2) pages -- first of all,
11 COALITION-38, it's at the last two (2) pages of the other
12 book.

13 The second-last page looks at selected
14 North American utilities and residential average rates.
15 And again, I think it's fair to say, based upon this,
16 that Manitoba still is among the lowest, in terms of
17 residential average rates.

18 But it's certainly not the lowest in its
19 position, partly as a result of the change of the
20 Canadian dollar has certainly slipped. And you can see
21 here that it's -- as you go through this table that it's
22 probably seventh or eighth on the list, opposed to -- and
23 this is in terms of residential customers.

24 Moving over to the last page of the short
25 document of exhibits, you see Exhibit MH-75, and

1 certainly, at least as my clients interpret this, this
2 reflects the large, large industrial revenue per kilowatt
3 hour. And it suggests that in terms of that -- that
4 group of consumers, that Manitoba still is the lowest in
5 North America, at least according to this table. So,
6 just a small point, but a point my clients believe is
7 important to make.

8 Finally, in terms of the policy context,
9 just a couple points. One regarding Wuskwatim -- and the
10 point was both recognized by Hydro and by the CEC.

11 That promise -- that project was sold to
12 -- to consumers and to Manitobans on the -- on the
13 assumption that Hydro would be able to maintain its
14 commitment that domestic rate payers would not experience
15 rate increases as a result of the projects. And
16 certainly, from my clients' perspective, that commitment
17 is in question.

18 As well, in terms of the new corporate
19 head office, certainly it appears that in the Centra --
20 most recent Centra proceeding some fairly optimistic
21 promises were made, in terms of the impact of that new
22 building. And certainly annual productivity savings
23 projected to be in the range of \$20 million annually,
24 over and above lease payment sav -- savings. And we'll
25 come back to that and to see whether that commitment is

1 -- has indeed been realized.

2 Turning on page 14 to the merits of the
3 rate increase. I've asked this question before. Has the
4 Corporation met its onus of justifying the rate increase
5 sought?

6 And on page 15, we're going to jump right
7 to the -- I'll jump right to the conclusion, and then
8 I'll come back to the reasoning in a -- in a second.

9 And we had some discussion, certainly,
10 with Mr. Bowman, in terms of a hypothetical regulator's
11 dilemma. And I'm not daring to -- to speculate what's in
12 the minds of this regulator. But certainly we recognize
13 that there's a potential for a regulator, in the course
14 of this proceeding, to have competing polls, in terms of
15 the revenue requirement.

16 Certainly my clients will be arguing for
17 -- at least for the '08/'09 year -- that Manitoba Hydro
18 be granted less than their sought-after 2.9 percent rate
19 increase.

20 But a question may occur to this regulator
21 whether the providing less -- less than the sought-after
22 rate increases may potentially delay achievement of the
23 enhanced reserves.

24 And certainly it may -- a regulator may be
25 concerned about providing less than the sought-after rate

1 increases in ter -- given the fact that we're looking at
2 major pending capital expenditures which are likely to put
3 pressure on the debt/equity ratio and on rates.

4 And a prudent regulator would certainly
5 consider whether or not providing less than the sought-
6 after rate increases might -- might not be appropriate in
7 that context.

8 And also there's certainly the daunting
9 issue from the perspective of a lawyer who trembles in the
10 presence of accountants, the implementation of interna --
11 except for Mr. Cathcart -- the implementation of
12 international accounting standards and its potential
13 impact on rates.

14 And certainly, from my clients'
15 perspective, they could see how a regulator wanting to see
16 progress in terms of debt/equity ratio, concerned about
17 protecting the Corporation in -- in the face of the risk
18 and pressures put on by higher capital -- and -- and also
19 in terms of challenging new accounting standards -- why
20 there might be an inclination to provide as the rate
21 increase or more than the rate increase.

22 But my clients' concern and the dilemma
23 they would pose is whether providing the sought-after rate
24 increase or more than the sought-after rate increase may
25 be seen as implicitly endorsing excessive expenditures.

1 And my clients' point -- and I think their
2 point is borne out by the history of the last few years --
3 is that the -- the simple, continuing result of higher
4 domestic rate levels doesn't provide us with any real
5 assurance of actual improvements in retained earnings.

6 And from the Coalition's perspective, in
7 terms of this dilemma, we're not sure that the regulator
8 or -- can have it both ways.

9 From their perspective, it's -- it would be
10 very difficult, if not impossible, to effectively admonish
11 a corporation for -- at least verbally or in writing --
12 for excessive expenditures while allowing them to ramp up
13 rate increases at or above the requested amount.

14 So for this proceeding, my clients'
15 recommendation -- and -- and they'll elaborate on this in
16 a few minutes -- will be -- will be for the Board to
17 identify the concern with expenditure control and
18 reinforce that concern through a less than sought-after
19 rate increase.

20 And this should not be interpreted as a
21 rejection of the legitimacy of those other points, for
22 example, the impact of rates and pending major capital
23 expenditures.

24 But in terms of that -- that issue, that
25 impact will not be felt in the IFF for '08/'09, as Mr.

1 Harper pointed out. And it shouldn't be interpreted as a
2 rejection of the legitimacy of the implementation of
3 international accounting standards and the potential
4 issues for the Corporation.

5 But on that point, my clients would point
6 out that the Corporation is researching the issue. And it
7 appears that the Corporation's position is that it's
8 premature to reach any conclusions about the impact of the
9 IFRS on Manitoba Hydro's financial statements.

10 In my clients' submission the only
11 effective way, over the long run, to send a signal about
12 cost control is through the revenue requirement. And in
13 their view, this is the year to do it.

14 We've got an extra 35 million in the bank
15 due to the positive results of '07/'08. And as Mr.
16 Anderson no doubt will elaborate upon with reference to
17 Hydro Exhibits 52 and 66, the energy in storage as of
18 March 25th, '08, is at very high levels compared to
19 historical levels.

20 And that -- that option, that approach,
21 from the -- the Coalition's perspective, would still leave
22 the option for the Corporation to come in next year,
23 '08/'09 -- or, '09/'10, demonstrate improvements in cost
24 control, and seek increases in the revenue requirement
25 once -- as new capital expenses hit the rate base and it

1 has more certainty about the impact of the IFRS.

2 Mr. Chairman, I propose what I'll try and
3 do is I've a -- a fair ways to go on OM&A. And I'll try
4 and finish that section before -- I'm sure the Board will
5 gratefully accept a -- a break. Again, I'm not living up
6 to Mr. Buhr's tremendous example of this morning.

7 Turning to page 17 of the outline, in
8 analysing the merits of the rate increase, these are the
9 questions my clients have asked themselves.

10 Does OM&A matter?

11 Has Hydro done what it said it would do to
12 improve corporate financial strength?

13 Has it demonstrated that it employs
14 appropriate tools at the corporate level in managing key
15 cost drivers, such as aging infrastructure?

16 Is it able to document the effect on the
17 2008/'09 OM&A of alleged key cost drivers, such as an
18 aging infrastructure?

19 In non-GRA years, has it met its OM&A
20 financial targets as set out in the Strategic Plan?

21 Does the Strategic Plan even matter in
22 terms of OM&A targets?

23 Has Hydro established the reasonableness of
24 its rate increases for the period in question?

25 Turning to the -- the first one on page 18,

1 Does OM&A matter? From the client's perspective, it
2 certainly does. You're looking at electric expenses of
3 1.45 billion in the recent years -- or the current year.
4 And clearly, in terms of those expenditures, OM&A -- OM&A
5 is one of the big two (2). Slightly over -- it amounts to
6 about 360 million.

7 So from that perspective, when it's
8 combined with finance, it's in fact over half of the
9 electric expenses. So from that perspective, it's
10 certainly a big deal.

11 And from Mr. Harper's perspective, I asked
12 him, Is this just administrivia? Is knocking off \$10
13 million here or there, \$14 million, what's that among
14 friends?

15 And he said, It's not, certainly not from
16 the perspective of consumers. And not to comment on Mr.
17 Harper's age, but he's been dealing with Hydro Electric
18 consumers for many decades, or electric consumers,
19 anyways.

20 From their perspective, it's not
21 administrivia. And as he pointed out -- and we think this
22 is an important point -- one has to watch the pennies, and
23 the dollars will look after themselves.

24 And on this point, I think it's also
25 important, on behalf of my clients, to reflect upon the

1 advice and the words of Mr. Bowman.

2 And he made a very important point in this
3 proceeding, that in terms of OM&A, the divergence between
4 the forecast and results -- and these are my words, not
5 him -- his -- that undermines the achievement of financial
6 targets.

7 He pointed out to systematic increases and
8 -- in OM&A spending that have been a consistent and
9 compounding reason underlying the failure to achieve the
10 debt/equity target.

11 And he made an eloquent point in terms of
12 the divergence between forecasts and results and the
13 upward trend in OM&A costs over the past two (2) years.

14 And a perfect example is the IFF-05-01.
15 Back then, just a couple of years ago, the forecast cost
16 per customer in '08/'09 was 338 million -- or, excuse me -
17 - three hundred and thirty eight dollars (\$338) per
18 customer.

19 By IFF-07-1, the forecast costs per
20 customer was three hundred and sixty (360).

21 And going to the big picture, Mr. Bowman
22 made the point that this negative trend threatens to
23 undermine the achievement of the financial targets.

24 So while in the short term granting less
25 than the sought-after rate increase might appear to be

1 counter-productive to the goal of achieving financial
2 targets, the short-term pain -- certainly in Mr. Bowman's
3 evidence, as we understand it, and the Coalition's
4 submission -- is likely to have an important impact in the
5 long term.

6 Has Hydro done -- has Hydro done what it
7 said it would do to improve corporate financial strength?
8 And Mr. Harper talked about this in his oral evidence. He
9 expressed a concern about product -- productivity
10 initiatives that Hydro said it was starting with the
11 purpose of improving financial strength, but it was not
12 following through on.

13 And one example of this is apparent in the
14 2005/'06 Corporate Strategic Plan. One (1) of the four
15 (4) key strategies, in terms of financial performance, was
16 to benchmark key corporate processes against other
17 recognized leaders. But as we confirmed through
18 Interrogatories and cross-examination no formal process
19 benchmarking has been undertaken on a corporate level.

20 So let's go to the next Corporate Strategic
21 Plan key financial performance target -- or activity,
22 develop corporate and business unit performance measures.
23 But as was confirmed through cross-examination and
24 Interrogatories, with respect to a specific strategy to
25 develop corporate and business unit performance measures,

1 the terms of reference and a work plan have not yet been
2 developed.

3 Why not? Well, Mr. Warden said it's a
4 matter of priorities. And that goes back to the central
5 point of my clients. Indeed it is a matter of priorities.
6 And we understand with the -- the exciting and important
7 major projects pending that it is difficult within
8 Manitoba Hydro to balance these priorities.

9 But we also believe, on behalf of our
10 clients, that it's important to get the fundamentals
11 right. And the concern of the Coalition is that these
12 nuts and bolts issues are not a priority, or at least as
13 high of a priority as they should be from the perspective
14 of the Corporation.

15 And perhaps the best example of this -- and
16 this point was made by Mr. Harper; and I'm -- I'm turning
17 to page 20 of the outline -- is the new head office and
18 what we've described as the disappearing productivity
19 dividend.

20 And I want to be -- be clear. My clients -
21 - it's -- it's a good thing that we have an energy-
22 efficient, state of the art head office on -- on downtown
23 Winnipeg. That's a good thing. But commitments were
24 made, in their understanding, and those commitments were
25 highlighted -- and I've noted this before -- in the Centra

1 Gas hearing.

2 Centra estimated that the overall cost
3 impact of the new head office would be about 21 million,
4 to be offset by lease payment savings of 5 million and
5 annual productivity savings projected to be in the range
6 of \$20 million annually.

7 So as we -- on behalf of our clients as we
8 come into this Hearing, we're looking where are those
9 productivity savings? Is the Corporation confident it can
10 achieve them? Has it delivered as promised?

11 Well, in terms of the cost, what does Hydro
12 say? Well, it says it's looking at about 23 million for
13 the first year. But afterwards a more appropriate number
14 to look at in terms of the impact, in terms of costs, is
15 about 18.75 million.

16 Well, where are the productivity savings?
17 Well, what does Mr. Harper say? Productivity attributed
18 to the head office initially included reduction of roughly
19 two hundred (200) staff. Now that number is well below a
20 hundred (100).

21 There appears to be no increase assumed in
22 productivity savings in the short term due to the head off
23 -- head office over and above what has been historically
24 been -- been achieved. And he noted it's not the 10
25 percent they were originally talking about, not the 2 to 3

1 percent identified in earlier studies. It's lower.

2 So we asked Manitoba Hydro, Mr. Derksen, I
3 believe, to provide us with an estimate of the number of
4 positions that are not being filled in anticipation of
5 synergies with the new building.

6 And Hydro's response was they don't have an
7 estimate. And they indicated that they're not able to
8 provide a reliable estimate in terms of the equivalent
9 full times for the 2007/'08 year that might be held off
10 because of the new building. And they're unable to
11 provide a reliable estimate of the number of EFTs that
12 will not have to be filled as a result of the new
13 building.

14 And Hydro again reem -- went back to the
15 point of two hundred (200) employees and indicated to make
16 it totally cost neutral, if we're going to achieve --
17 achieve these savings solely through reduction number of
18 employees, it would be close to a 10 percent productivity
19 increase -- 10 percent of the head office staff of two
20 thousand (2,000), being about two hundred (200) employees.

21

22 And, in the course of this discussion, I
23 asked Mr. Warden at page 1171:

24 "There was some doubt in your mind that
25 you will be able to achieve the

1 savings?"

2 And his answer was:

3 "I really can't say with confidence that
4 we will."

5 So what savings does Manitoba Hydro now
6 claim? We know that the forecast 1 percent productivity
7 savings related to the labour costs component of OM&A for
8 '08/'09 implicitly includes the new headquarters.

9 We also know that apart from lease costs
10 and the fact that the -- it's built into the OM&A
11 productivity, there are no other downward revisions to
12 OM&A costs that you can relate to the new headquarters.
13 And that was confirmed at Page 1192 of the transcript.

14 And, in fact, Hydro indicated -- and I'm
15 not quoting here, I'm paraphrasing -- there are no other
16 downward revisions. In fact, there may be a temporary
17 increase in costs. There could be some increase in costs
18 which we have not factored into the forecast.

19 Hydro, in Exhibit Number 37, suggests that
20 the total facilities related savings expect as a result of
21 the move to the new head office is \$7 million.

22 So how do we put this together
23 mathematically? We're going to suggest -- we're going to
24 start with the consumer -- a conservative assumption.
25 Instead of using the 22.8 million for the first year,

1 let's look at the annualized impact of 18.75 million.
2 Then let's look at the alleged facilities related savings
3 of seven (7) million and the alleged productivity savings.

4 Manitoba Hydro states that it's holding
5 back filling some positions in expectation of the move to
6 the new head office. Of the two hundred (200) vacancies
7 that currently exist, Hydro states -- and this is in
8 Exhibit 36 -- that one hundred twenty-five (125) or one
9 hundred fifty (150) of them are due to vacancy issues,
10 difficulty in filling positions.

11 This would suggest that no more than
12 seventy-five (75) are being held back due to the new head
13 office, and that number could be lower. But let's take
14 seventy-five (75) as a conservative assumption for
15 Manitoba Hydro.

16 Mr. Harper wanted me to use eighty thousand
17 dollars (\$80,000) per employee. But I'm going to be
18 conservative again, and I'm going to use a hundred
19 thousand dollars (\$100,000) per employee. This would
20 result -- would translate into a reduction of no more than
21 7.5 million.

22 So using three (3) conservative
23 assumptions, we calculate the annualized incremental costs
24 of the new headquarters, to rate payers, would appear to
25 be at least 4.25 million annually. So again, a promise

1 made -- a promise made not that long ago and a promise
2 which certainly does not appear to be kept, in terms of
3 the IFF-07-1.

4 Moving to page 23, in terms of managing
5 alleged key cost drivers such as aging infrastructure, has
6 Hydro demonstrated that it employs appropriate tools at
7 the corporate level?

8 And I -- as the Board may have noted during
9 the course of this Hearing, I became quite obsessed with
10 asset condition assessments. And as Mr. Harper testified,
11 these are commonplace in Ontario regulatory experience,
12 both for big utilities and for small utilities. And
13 they're commonplace in the industry. And somewhere on the
14 record -- it's either Coalition Exhibit 12 or 13 --
15 there's actually a study of best practices in terms of
16 asset condition assessments.

17 Well, what are these things, the subject of
18 Mr. Williams' obsession? What they are is a snapshot of
19 the utility's assets, noting the degree of degradation and
20 the need for rehabilitation and replacement. They're
21 frequently done by an external party in association with
22 the utility. It helps the utility pull together, on a
23 systematic and organized basis, an overall comprehensive
24 assessment. And the -- for planning purposes, this allows
25 work to be prioritized across the entire asset base.

1 And certainly at Page 1144 of the
2 transcript, we talk about how Hydro One does this in terms
3 of priorities: at the high level, highest priority, high
4 value, high risk expenditures; at the lowest level, low
5 value, low risk expenditures.

6 What asset condition assessments do is
7 allow a corporation identify areas where there are
8 information gaps. Regulators use them. They require the
9 utility to demonstrate that they have a sound planning
10 process and to substantiate their need, in terms of
11 expenditures, on a year-by-year basis. And they're done
12 every two (2) to three (3) years.

13 It allows a regulator to get a good sense
14 of the overall state of the nation. And part of these are
15 important expenditures. So that's best practice in a
16 number of jurisdictions, certainly common practice in
17 Ontario.

18 Well, how does Hydro address, at a planning
19 level, aging infrastructure? And I -- I cited from the
20 transcript, my cross-examination of Hydro on these -- this
21 point, and I'm not quoting directly. These are the
22 inferences I have drawn from their conclusions. You can
23 certainly check the transcript and the Interrogatory cited
24 to see if you concur with my inferences.

25 I'm quite confident saying that Hydro has

1 not conducted an independent review within the last four
2 (4) years of industry best practices with regard to asset
3 condition assessments.

4 I'm also quite confident that, in terms of
5 managing aging infrastructure, a strategy document for the
6 overall operation corporation does not exist. We asked
7 for it in Coalition-1-36-C and didn't get it.

8 Based on my discussions with Mr. Warden, my
9 understanding is that priorities and budgets are set at
10 the divisional level, then reviewed at a high -- highly
11 summarized level at the executive level. Hydro, to my
12 knowledge and based upon their answer at page 1151, does
13 not employ independent consultants to assist in the
14 process or to review the process.

15 We also know that when requested in
16 Coalition-2-52-A to provide a company-wide asset condition
17 assessment, none was provided. And my inference is that
18 no company-wide assessment exists. So that's in terms of
19 aging infrastructure.

20 There's also some technological issues, and
21 I'm quoting Mr. Warden -- or excuse me, I'm paraphrasing
22 at page 1154. In terms of this planning process, not all
23 of Hydro systems are state of the art. He speaks of AMPS,
24 the main tool used to plan and schedule maintenance tasks
25 and inspections, which is less than state of the art. He

1 talks about CAMELOT, which is used to record and prioritized
2 -- prioritize projects in the area of power supply as
3 being due for replacement.

4 And lest one thinks that Mr. Harper and Mr.
5 Williams are alone in their -- are in a soliloquy on this
6 -- on this point, I think it's important as well and
7 instructive to look at what Mr. Bowman, on behalf of
8 InterGroup, has said.

9 He's expressed the concern that there's no
10 consistent, top-down test in place for managing
11 replacements and incremental expansions to the existing
12 system. He expresses concerns with how Hydro employs
13 capital -- the capital coverage ratio and suggests
14 different -- different approaches that Hydro may wish to
15 consider.

16 Page 26: Is Hydro able to document the
17 effects on the 2008/'09 OM&A of alleged key cost drivers,
18 such as aging infrastructure? And I'm focussing on the
19 '08/'09, year because that's certainly the year in which
20 my clients are asking for a -- that Hydro be granted 1
21 percent less than it has sought in terms of a rate
22 increase.

23 What does Mr. Harper say? He talks about -
24 - about -- he talks about anecdotes. And -- he says Hydro
25 has made general references to cost drivers, such as aging

1 assets and the need to meet increased customer demand.
2 However, no clear link has been provided between these
3 cost drivers and the changes in cost. Mr. Bowman and Mr.
4 Harper both said this, every utility says their assets are
5 aging.

6 Their assets have been aging since the year
7 they were built. What you have to establish though, as
8 Mr. Harper points out, is what's unique about this
9 particular period of time, in terms of the state of the
10 assets. You need to do more than just say that they're
11 older.

12 And I think Mr. Derksen agreed with me on
13 this point at page 117 -- 1117 of the transcript. Age, by
14 itself, is certainly not the only factor in spending
15 requirements. And we were talking about prioritising
16 spending requirements.

17 He said you had to look at a number of
18 factors. And I've set them out there at the bottom of
19 page 26. But where's the substantiation of the impact on
20 the '08/'09 forecast of the allegations of aging assets
21 driving expenditures?

22 The Coalition made an attempt to assist
23 Manitoba Hydro on this. We asked the question,
24 Interrogatory 1-36. We tried to get a segregation of
25 operating and administrative expenses associated with

1 maintaining and sustaining existing assets. But we were
2 told it was not readily available.

3 Attempt Number 2 to assist Manitoba Hydro,
4 the Public Utilities Board, Second Round Number 28. They
5 were looking at OM&A costs and staff EFT increases by
6 rehabilitation requirements and ongoing OM&A. What was
7 the answer? Hydro's not able to divide the information
8 between rehabilitation and ongoing OM&A.

9 So I made a third effort in a cross-
10 examination, starting at page 1121 of the transcript. We
11 know Hydro said that aging infrastructure was a key cost
12 driver. And it suggested at page 1114 that -- that aging
13 infrastructure is causing pressure on staffing levels.

14 And at about that same page it said the
15 three (3) major areas for staffing increases as a
16 consequence of the aging infrastructure are power supply,
17 transmission and distribution, and customer service and
18 marketing. And they generously agreed to -- to undertake
19 -- to provide an -- an answer to how much of the -- of
20 that -- the '08/'09 increases in EFTs were required to
21 meet operating and maintenance requirements and charged to
22 OM&A expense.

23 And that's Exhibit 35, and it's quite
24 instructive. The '08/'09 year: power supply, four (4)
25 EFTs; transmission and distribution, two (2); customer

1 service and marketing, two (2).

2 As Mr. Derksen confirmed, if I was looking
3 and focussing exclusively on the transition from '07/'08
4 to '08/'09, I wouldn't see a lot of growth in the EFTs
5 relating to aging infrastructure in that particular year.
6 We're not seeing a lot of growth.

7 Turning to page 29, the question posed is:
8 In non-GRA years, has Hydro met its financial targets in
9 terms of OM&A?

10 And the answer is that our last GRA was in
11 '03/'04. In the three (3) years since, you can see for
12 '04/'05, the actuals were actually higher than the top-
13 down corporate strategic plan target. You see as well in
14 '05/'06 the actuals were higher than the top-down
15 corporate strategic target. And then in '06/'07, again,
16 they were higher than target.

17 And we focussed on non-GRA years, because
18 it's natural among utilities to -- to come in, in GRA
19 years, with a little closer to target. But does it matter
20 if the strategic target plans are not met? Does the
21 Corporate Strategic Plan matter?

22 Well, I think Mr. Warden's evidence is that
23 it does. It serves as a broad planning outline and a
24 means for the Corporation to evaluate itself against the
25 key-target measures.

1 So, in the non-GRA years between the last
2 GRA and this one, based upon the Corporation's own
3 internal evaluations, it's failed. And so we think that
4 this -- this measure does matter.

5 Turning to page 30 -- and I think I'll --
6 I'll finish this and then we'll -- we'll head for a break,
7 Mr. Chairman, with your permission.

8 Has Hydro established the reasonableness of
9 its rate increase for the period in question? Mr. Harper
10 says no. He recommends that the Board approve an annual
11 increase in OM&A for the -- the period in question of 3
12 percent, rather than 3.9 percent.

13 He identifies three (3) major points.
14 First of all, OMA -- OM&A is higher than in previous
15 forecasts for the same period. In fact, it's the highest
16 rate of growth we've seen. But there's no substantiation
17 for the increased spending and no unique or one-off
18 programs.

19 He also says that we should hold the
20 Corporation to its own strategic plans, and the 3 percent
21 is consistent with targets Hydro has set for itself in its
22 Corporate Strategic Plan.

23 Third, he says and he acknowledges that
24 OM&A, historically, has grown at about 4 percent. But it
25 suggests it should be expected to decline, given that

1 customer growth is projected to -- to decline, as are
2 Manitoba Hydro's increases -- salary increases -- per FTE,
3 according to its forecast.

4 So he recommends reduction in the '08/'09
5 revenue requirement from 2.9 percent to 1.9 percent.

6 My clients agree, and I've set out some of
7 the reasoning here. Again, the proposed spending level
8 exceeds Corporate targets. The projection for the '07/'09
9 are higher than in any previous IFF. And the fundamentals
10 just don't support a 3.9 percent per annum increase for
11 OM&A.

12 And I put in here a detailed description.
13 It also appears in Coalition Exhibit Number 40. And
14 really what we summarize here, turning to the top of page
15 31, is that if you look at the two key drivers, the slower
16 customer growth should decrease OM&A growth by about 0.3
17 percent. And also the slower growth of labour costs is
18 also an important factor.

19 This suggests a growth rate that is lower
20 by more than 1 percent, absent other offsetting factors.
21 And we asked Manitoba Hydro, Are there offsetting factors?
22 Are there any special or non-recurring maintenance
23 programs of the material size during this period? And
24 their answer was no.

25 So my clients' recommendation, Mr. Chairman

1 and members of the Board, is that the Board approve the
2 interim 2.25 percent rate increase for '07/'08, but
3 approve a 1.9 percent increase for '08/'09. In their
4 view, the only effective way to send a signal about cost
5 control is through the revenue requirement. And this is
6 the year to do it, given the extra 35 million due to the
7 positive results of '07/'08. This still leaves the option
8 for the Corporation to come in the next year.

9 Mr. Chairman, I'm going to just -- with
10 your -- I can either break now, or I have a maybe five --
11 five more minutes on this -- this subject.

12 THE CHAIRPERSON: Sure, go ahead.

13 MR. BYRON WILLIAMS: I should never say 5
14 minutes when Mr. Mayer is watching, but ...

15 I want to spend a second, start at the
16 bottom of 31, top of 32, to anticipate perhaps what Hydro
17 might say in response or rebuttal.

18 Certainly the -- at the heart of the
19 Coalition's argument that the -- the proposed rate
20 increase for '08/'09 is excessive is the belief that the
21 OM&A forecast for '08/'09 are submission -- excessive and
22 have not been substantiated. And when you look at OM&A,
23 it's important to realize that labour cost is a key
24 driver; 75 percent of OM&A is labour cost.

25 And there's been a lot of talk about

1 sticker shock in this Hearing by Manitoba Hydro, and
2 that's an important point. And they've certainly put an
3 interesting article on sticker shock on the record. And
4 we certainly anticipate that Hydro may introduce doomsday
5 scenarios about la -- labour costs. But we think that
6 those scenarios are not consistent with Hydro's own
7 evidence.

8 What do we know about labour costs in
9 recent years? And I'm not going to suggest that they're
10 not rising, but they're not rising at the dramatic pace --
11 the sticker shock pace that Hydro may attempt to suggest.
12 In fact, quoting from the sticker shock article in
13 Manitoba Hydro:

14 "Labour costs generally have tracked
15 inflation rates, although there's been a
16 shortage in skilled workers which have
17 driven some costs higher. Labour cro --
18 costs increase have exceeded the general
19 inflation rate, but they're less direct
20 -- dramatic than those exp --
21 experienced by commodities."

22 What else does this sticker shock article
23 say about labour costs?

24 "Labour costs have not risen
25 dramatically in recent years, although

1 there's concern about a merging gap
2 between demand and supply."

3 So what else do we know about labour costs
4 in the recent years? Well, they have risen faster. And
5 again this is provided in an excerpt from Coalition Number
6 30 -- 40. In the '03/'07 period, they grew by about 3.8
7 percent.

8 But Hydro's own numbers -- and they've not
9 refuted them or withdrawn them on the record of this
10 proceeding -- suggests that their growth over the '07/'09
11 period is 2.6 percent per FTE.

12 Hydro also forecasts that the number of
13 customers in thi -- this '07/'09 -- '07 to '09 period is
14 going to be lower than it was in the '03 to '07 period.

15 We certainly heard in the early days of the
16 Hearing anecdotal evidence from Hydro about its labour
17 rates as compared to others. So we asked the question:
18 What does a true benchmarking study tell us about certain
19 Hydro salaries as compared to other utilities?

20 And I use the word "true benchmarking," and
21 I've attempted to define it on page 33. I think I'm using
22 Mr. Warden's words:

23 "We would interpret benchmarking to be a
24 more in-depth review of processes to
25 ensure that the benchmarking exercise is

1 taking place, that the functions, the
2 processes are truly comparable."

3 So by "true benchmarking," we -- the
4 Coalition refers to an apples-to-apples comparison, not a
5 comparison of highly aggregated information, which is not
6 useful for very much, if anything.

7 So there was some information put on the
8 record through an Ontario One benchmarking study that --
9 that we've cited here. And I think it's actually in the -
10 - in the table of exhibits as well. It's Exhibit Manitoba
11 Hydro Number 60, but I've set out the results here.

12 We'll look at the three (3) positions.
13 Field operations manager, where does Manitoba Hydro rank?
14 In the median to the 75th percentile in both the minimum
15 wage level for that category and the maximum.

16 How about design engineer? Median to 75th
17 both for minimum and maximum.

18 Powerline maintainer? Little lower, 25th
19 percentile to median 25th percentile to median.

20 We're not using this to suggest that
21 Hydro's salaries are too low. We're simply pointing out
22 that the evidence on the record in this Hearing, when you
23 look at true benchmarking -- appropriate studies --
24 doesn't provide any evidence that they -- that salaries of
25 Manitoba Hydro are too low. In fact, it looks like

1 they're pretty much around the middle.

2 Hydro has thrown out a power surveys --
3 services survey result, but that's certainly not a true
4 benchmarking study. It's highly aggregated. There's no
5 segregation by job. There's no minimum for positions or
6 maximums. It doesn't tell us anything about seniority or
7 how long individuals have been at the job.

8 So if Hydro does attempt to rely upon
9 highly aggregated and simplistic comparisons, we'd remind
10 the Board that that is not true cost benchmarking, and
11 Manitoba Hydro admits as such.

12 And I think I took six (6) minutes, but not
13 bad.

14 THE CHAIRPERSON: Did well, Mr. Williams.
15 Okay, we will take a break now.

16

17 --- Upon recessing at 10:25 a.m.

18 --- Upon resuming at 10:48 a.m.

19

20 THE CHAIRPERSON: Okay, anytime you are
21 ready, Mr. Williams.

22

23 CONTINUED BY MR. BYRON WILLIAMS:

24 MR. BYRON WILLIAMS: Thank you. On my
25 very thin, Buhr-like outline, I'm at the bottom of page

1 33, top of page 34.

2 And this is a relatively brief point I wish
3 to make, but my clients certainly felt it was important to
4 recognize. The heading is, "Some Examples of the
5 Interaction of Government Policy in Manitoba Hydro." But
6 they felt it was important to -- to recognize this reality
7 and also recognize some of the cost pressures and stresses
8 this does put on the Corporation.

9 But certainly, to protect their -- their
10 political flank, at the top of page 34 -- and I want to
11 emphasize this -- when we talk about the cost pressures
12 that this interaction is putting on the Corporation, we're
13 not -- my clients certainly aren't offering judgment on
14 the -- the various initiatives. They just want to
15 recognize it.

16 And -- and I think it's important, and
17 certainly my clients wish me to say so, that it's
18 important to recognize that this kind of interaction
19 between a Crown and the province, in the past and -- and
20 currently, has really led to some tremendous -- some
21 tremendous benefits to Manitobans. And I'm talking about
22 that on behalf of my clients at the top of page 34.

23 Whether we look at in -- in my father's
24 time, rural intercorrect -- interconnection, or if we look
25 more of my -- my time, the connection of remote

1 communities in -- in the north, the Northwest Transmission
2 Development, and certainly the -- the cooperation between
3 Manitoba Hydro and the province has been a boon as to
4 economic development, certainly made a significant
5 contribution to the provincial bottom line.

6 And today we have a -- a program that my
7 clients applaud such as -- at least in -- in terms of
8 intent, if not in design, the Low-Income Energy Efficiency
9 Program.

10 It's also important to recognize that
11 there's been some costs to the province in terms of the --
12 of these tremendous developments. And the Churchill River
13 diversion and its impacts comes to mind.

14 But, again, my clients did ask me to point
15 out and highlight some of the ongoing impacts on the
16 revenue requirement and/or financial indicators that are -
17 - that are a product of this interaction between Hydro and
18 -- and the province. The -- the new Hydro building, we've
19 certainly talked about. And, again, my clients -- in
20 terms of the -- without expressing opinion, certainly the
21 west side versus the east side decision, in terms of
22 Bipole 3, has important cost ramifications.

23 In terms of Wuskwatim, again, my clients
24 will come to that in just a couple of seconds. But from -
25 - it's clear, getting to the bottom line, that -- that

1 Wuskwatim is putting pressure on Manitoba Hydro's
2 debt/equity ratio and upon the revenue requirement, at
3 least out until 2017.

4 Again, the closure of the Brandon Coal
5 plant, except for emergency use, proposed is another
6 important impact. And, again, I think it's something that
7 my clients are supportive of. But it's -- there are
8 bottom line impacts from this. And we certainly
9 anticipate those on behalf of our clients, in terms of the
10 major new Hydro electric-generating stations. And, again,
11 we've gone through some more of these on -- on these
12 pages.

13 The simple point is that this is a
14 corporation that in terms -- it's more than just a utility
15 and that it's experiencing significant pressures on its
16 bottom line from a variety of policy and government
17 initiatives, many of them quite beneficial. But it's
18 important, from my clients' perspective, to put that into
19 the mix analytically.

20 Turning to page 37, my clients have asked,
21 What is the experience of Wuskwatim? Are there lessons we
22 can take from Wuskwatim into this anticipated decade of
23 major capital expansion?

24 And at the top of page 37, I've restated
25 the commitments by Manitoba Hydro in terms, of Wuskwatim

1 and the findings of the CEC. And I don't need to -- to
2 belabour that point.

3 At the bottom of that page through, in the
4 course of this Hearing, both Mr. Harper and Mr. Bowman
5 haven't quite said it, but they've come really close to
6 suggesting that domestic rate payers are experiencing rate
7 pressures as a result of these projects.

8 Mr. Harper, and I quote him at page 3647:

9 "The increased debt is placing pressure
10 on today's rates."

11 And he goes on to say it's probably one of
12 the contributing factors to increased rates. I think his
13 actual quote was, "It's definitely probably," but I wasn't
14 sure what that meant. So I -- I think that was a cautious
15 insertion by Mr. Harper. So I took out the word
16 definitely.

17 Mr. Bowman -- press him as I could --
18 wouldn't quite go to the -- the Nth degree. But he said:

19 "We're effectively coming close to
20 raising rates for Wuskwatim."

21 What is the reality of Wuskwatim? We've
22 summarized at Page 38 some important information about it.
23 With the revised in-service date, we're looking at costs
24 of 1.6 billion, including transmission.

25 Now when you restate those -- those costs

1 to take into account both inflation and a later in-service
2 date, you see really the dramatic, in 2002 dollars,
3 change, the current forecast of Wuskwatim to the -- to the
4 original forecast. And that's at the middle of page 38.

5 And you can see on the left-hand side we're
6 looking at the evidence provided to the Clean Environment
7 Commission -- this -- this is from Manitoba Hydro Exhibit
8 Number 29 -- 600 million for the generating station. Now,
9 that's risen in constant dollars by about 50 percent to
10 907 million -- almost a billion dollars -- on the
11 generating station. On the transmission line, going more
12 appropriately to the sticker shock issue, you can see the
13 costs almost doubling. The information was provided
14 helpfully, although reluctantly. And that's Manitoba
15 Hydro Exhibit Number 55.

16 What is the revised internal rate of
17 return? And we're suggesting that it's only 6.5 percent.
18 And I think this is almost pulled directly from the
19 exhibit.

20 If the capital costs of the project in 2002
21 dollars is substituted into the April 2003 submission, the
22 resulting mathematical calculation is six point five (6.5)
23 when some costs are included.

24 And we would suggest the revised internal
25 rate of return is roughly equivalent to the Corporation's

1 cost of debt. There's been different evidence on the
2 record in terms of that. Mr. Warden originally said 7
3 percent, but my understanding that -- that figure was
4 subsequently revised to 6.5 percent.

5 But, certainly, what my clients recall from
6 CEC hearings is that's not anywhere near the type of
7 return that we -- certainly that -- that consumers or
8 Hydro would have been looking for at that point in time.

9 We've -- there's been an attempt,
10 certainly, to re-shift the debate about Wuskwatim to say
11 that it's needed for domestic needs.

12 But -- but we think Mr. Surminski frankly
13 addressed that issue in his typical frank fashion. He
14 said that it's the -- and I'll insert the word "firm
15 contracts" that add to the demand that cause the deficits
16 in the long run -- term, if that's what you're getting at.
17 It's a combination of domestic load with your firm
18 contracts that leaves you requiring Wuskwatim.

19 So are there lessons to be learned? Well,
20 certainly from the consumer perspective, my clients have
21 learned something. Certainly, in Wuskwatim, at the CEC,
22 they didn't really examine closely the capital expenditure
23 forecast of Manitoba Hydro.

24 There was evidence they relied upon -- and
25 that's their fault or their advisors' fault -- suggesting

1 that Hydro had a great degree of confidence, which I've
2 cited here, that the estimate would be between 523 million
3 and 620 million. And that simply hasn't been the case.

4 So, the question was asked in cross-
5 examination, Have there been lessons learned? Have you
6 done an independent review of best practices, in terms of
7 capital expenditure forecast in management in recent
8 years? And Hydro hasn't. There was the Deloitte and
9 Touche study -- and that's found in Coalition 38 -- but
10 that was way back in 2002.

11 So are there lessons to be learned by
12 Wuskwatim? Well, my clients' starting point is that
13 there's some -- certainly some sobering lessons for
14 consumers. We don't know, in terms of capital expenditure
15 forecasts and management, were there lessons to be
16 learned, because we really haven't asked the question.

17 They think -- my clients certainly do, as
18 we he -- head into a major decade -- decade of expansion,
19 that that question should be asked, and that, certainly,
20 the Board should recommend to Hydro that it provide an
21 independent review of its capital expenditure procedures
22 for major projects and OM&A look -- both in terms of
23 forecasting and management best practices.

24 And, certainly, my clients think that, as
25 we move forward, that would be an instructive lesson and

1 an instructive thing that we can do from Wuskwatim.

2 At page 30 -- excuse me, it's page 40 -- my
3 clients ask, How can we improve the regulatory process?
4 And they've got a number of suggestions. And I'll -- I'll
5 start with Mr. Harper.

6 Mr. Harper, in his oral evidence, and I
7 won't re-summarize it, but he talked about four (4)
8 possible ways that you could test the validity of OM&A --
9 OM&A expenditures.

10 One of the concerns he raised though, in
11 terms of these four (4) approaches, was that there was
12 insufficient information on the record to use approaches
13 1, 2 and 4 -- excuse me -- 1, 3 and 4.

14 So Mr. Harper -- and, again, I won't dwell
15 on this, but he made some very helpful recommendations, in
16 terms of how Hydro could better present information to its
17 regulator in order that the process could move more
18 efficiently. And, also, so that we'd have a better
19 understanding and a better mechanism to test the
20 reasonableness of its expenditures.

21 One of his most important was the
22 employment of asset condition assessments. And,
23 certainly, I've talked about that already. And then he
24 made a number of recommendations in -- in terms of
25 improving Hydro's presentation to its regulator of its

1 OM&A budget. And, again, I won't dwell on those. Those
2 are set out at the transcript at pages 3642 to 3643.

3 Something I will dwell on though, starting
4 at page 42, is an issue which we think was not totally
5 ripe for this Hearing but is something that is important
6 for consideration in future hearings.

7 And that's the management of -- of Hydro's
8 debt portfolio. And some individuals in this room will
9 requi -- recall back in the 1990s -- going back to hair,
10 Mr. Mayer, when I -- when I had more hair and it was not
11 so grey -- where Manitoba Public Insurance was tested by
12 Intervenors in terms of its investment portfolio -- not
13 its debt management portfolio, but its investment
14 portfolio.

15 And there were important debates in that
16 forum in the 1990s that had profound impact on Manitoba
17 Public Insurance and provided profound benefits today to
18 Manitoba consumers.

19 And one of the questions my client is -- is
20 raising is, Is it getting near the time to engage in that
21 debate with Manitoba Hydro, in terms of the management of
22 its debt portfolio, which is in excess of \$7 billion?

23 Well, just by way of background, currently,
24 how does Hydro do this? Mr. Warden had to set me straight
25 on this. But floating rate debt is -- is debt that is

1 subject to change on a periodic basis, often six (6)
2 months to a year, whereas there's also long-term fixed-
3 rate debt, which is -- is much more stable and changes
4 over a much longer period of time.

5 Currently, Hydro tends to operating the
6 floating-rate debt about or below 20 percent of its
7 portfolio and a long-term fixed-rate debt of about 80
8 percent.

9 And, well, is there a policy that mandates
10 this? Well, this -- this was the original response we got
11 from the Corporation. There's a policy limit to no more
12 than 30 percent of total debt. But Hydro typically
13 manages to within 15 to 25 percent of total debt, i.e., 15
14 to 25 percent being fixed -- excuse me -- being floating
15 and the remainder being fixed-rate debt.

16 So originally we asked whether there's a
17 Board minute regarding the 30 percent maximum. And we are
18 told, yes, going back more than twenty (20) years. But
19 that -- that minute apparently predates computers, and it
20 still -- still is MIA -- missing in action. Not to deny
21 that -- that it exists, but it -- it just hasn't been
22 produced.

23 And Mr. Warden indicated, We have not found
24 it to be an issue that requires Board attention, so the
25 Board has not been asked to look at that for a number of

1 years.

2 He also noted that the target guidelines go
3 back more than twenty (20) years. And he wasn't clear at
4 that point in time whether the Board specifically approved
5 that.

6 So what we have is a long-standing policy.
7 Times have changed since then. And that hasn't been
8 subject, in recent years, to a tremendous amount of review
9 by the Board.

10 We certainly ask, other than the previously
11 approved, Board-approved document, is there any other
12 document? And we were told no.

13 So, why does this matter? Well, there's a
14 tradeoff. Floating-rate debt provides economic benefits.
15 Short-term -- generally. Short-term interest rates
16 generally are lower than long-term interest rates in a
17 typical yield curve. And Hydro would admit, and it has,
18 that if you go to only 5 percent floating, you're giving
19 up too much in terms of economic benefit.

20 Well, what does fixed long-term debt offer?
21 It offers stability. And Hydro would argue if you go over
22 that magic 30 percent for -- for floating -- if you get to
23 31/69, being thirty-one (31) floating, sixty-nine (69)
24 fixed -- I've got a typo there -- you're giving up too
25 much, in terms of stability and risk.

1 Well, is there literature on this subject?

2 Well, there is one. It's an article originally cited by
3 the Coalition and then cited by the Corporation in its
4 rebuttal evidence, "Is There an Optimal Mix of Fixed and
5 Floating-Rate Debt?"

6 And it's a very interesting study. Mr.
7 Warden thinks it should be a hundred (100) years long
8 instead of ten (10) years, so I take his point on that.
9 But it's the best that's on the record, and it's an
10 important -- important study.

11 And what did it show? Well, if you -- if
12 you looked at 100 percent floating, certainly there was a
13 financial economic benefit. You're -- you're gaining on
14 the economic side. But certainly, quarterly earnings were
15 more variable.

16 What about a 100 percent fixed? Well, you
17 were paying more. These were the highest interest costs,
18 but there was considerably lower variability than a 100
19 percent floating.

20 But what's interesting about the study --
21 and I discussed a bit of this with Mr. Warden at page 1229
22 -- is that there were points in the middle -- 69/31, 40/60
23 -- where not only was interest-costs lower than a 100
24 percent fixed, but there was lower earning volatility as
25 well.

1 So we would submit, on behalf of our
2 clients, that there's a key point that we can draw from
3 this literature. It's clear that the floating offers
4 greater econo -- economic benefits, but it does not
5 suggest that excessive risk-averse behaviour necessarily
6 leads to the lowest level of risk.

7 Why does this matter? Well, on an annual
8 basis, finance expense -- expenses are about \$426 million,
9 and Hydro currently holds in excess of \$7 billion in debt.
10 So even applying that current policy -- turning to page 49
11 -- excuse me, 44 -- that range of 15 to 25 percent of the
12 total debt of \$7 billion. There's 700 million in terms of
13 a potential to flip between floating and fixed. And if
14 Hydro reduces its interest costs by mere five (5) bases
15 points, that would be a saving of 3.5 million, annually.

16 We're not suggesting that it's mismanaging
17 the debt portfolio. We're suggesting that this is an
18 issue, given its significance, that is ripe for re-
19 examination. And we're suggesting this -- well, first of
20 all, because there's no Board policy that can be found.

21 But the one that exists date back -- now we
22 know -- to the 1970s, and it's probably time for review.
23 And we confirmed that there was no recent independent
24 review. There's been no independent review of Hydro's
25 debt optimization approach in the last five (5) years.

1 It's also of concern to the Coalition that
2 Hydro has been consistently managing, at least in the
3 evidence on this record, towards the bottom of that range
4 -- the 15 to 25 percent. Of the thirteen (13) quarters
5 reviewed in Coalition-1-85-B, Hydro was below the mid-
6 point -- the 20 percent floating point -- twelve (12)
7 times and above the mid-point one (1) time.

8 Now there may be a perfectly good
9 explanation for that, but that's a subject of concern. Is
10 Hydro being excessively risk-averse and leaving dollars on
11 the table for no appreciable gain and stability? It may
12 be foregoing significant returns for the false premise of
13 reduced risk.

14 We'd also note that BC Hydro -- it's the
15 one Crown, certainly, that's above Manitoba Hydro -- runs
16 a higher floating/fixed ratio, a range of 26 percent to 46
17 percent floating.

18 And I've cited the MPI examples, so I won't
19 dwell on it. But we think this is particularly important
20 as we look at a period where we are looking to -- likely
21 to significantly increase debt. And that there's real
22 opportunities here -- at least, first of all, for a
23 careful review, and there may be cost savings in play as
24 well. So we're recommending an independent review
25 of floating -- of the floating/fixed target range and

1 maximum, with a view to the consideration of the trade-
2 offs, in terms of economic benefit and stability.

3 On page 45, I have a -- on behalf of my
4 clients, a brief discussion about benchmarking. And Mr.
5 Peters canvassed this in cross-examination with Mr.
6 Harper, and Mr. Harper wasn't overly enthusiastic on the
7 benchmarking subject.

8 But I want to be careful, and I think Mr.
9 Harper is -- as I understand it, he wasn't overly
10 enthusiastic about what he would characterize as the
11 fairly simplistic approach to benchmarking taken by
12 Manitoba Hydro, highly aggregated numbers pulled from the
13 annual reports.

14 The Coalition certainly -- and -- and I'm
15 not speaking for Mr. Harper here -- believes that there
16 may be some -- some value to exploring the issue of true
17 benchmarking. And we've put on the record a couple of
18 examples in this proceeding, Coalition Exhibits Number 8
19 and Number 9.

20 The Coalition -- and I'm -- I'm not sure
21 which the numbers are but the -- one (1) of them was the
22 Ontario One distribution study that benchmarked thirteen
23 (13) or fourteen (14) utilities on it -- on matters such
24 as cost per kilo -- kilometre, cost per customer on a
25 variety of factors.

1 And the other one is the Hay Group
2 Comparison of Labour Rates and Overtime Policies, which,
3 at a micro level, the corpora -- the Coalition found quite
4 valuable.

5 So answering at least one (1) of the
6 thirty-one (31) questions of the -- of the Board, in terms
7 of benchmarking, my clients see little value in high --
8 highly aggregated, straight from the annual report
9 benchmarking.

10 They recommend though that the PUB consider
11 -- and -- and I -- probably cautiously -- the value of
12 process and cost benching -- benchmarking on a selective
13 basis and again, going back to Mr. Warden's definition of
14 "true" -- "true benchmarking."

15 Page 46, should we rely on the current
16 debt/equity target for rate-setting purposes? I suspect
17 in the -- the only document that rivals the length of my
18 outline, the MIPUG closing argument, they will address
19 this in extensive detail. But I thought it was, certainly
20 on behalf of the clients, useful to put some points on the
21 record.

22 Let's start with first principles. Why is
23 this target considered to be important? What -- what
24 value does it offer? Certainly, the target, and the
25 progress of Hydro towards it, is intended to demonstrate

1 elegant way:

2 "In such an era, do you end up with an
3 undefinable concept of making sufficient
4 progress?"

5 Mr. Harper, ever the pragmatist, suggested:

6 "First of all, if you're looking at
7 satisfying the financial community, you
8 should be looking at what they're
9 actually rating."

10 And, certainly, the Standard and Poor's
11 measurement -- kind of their apples-to-apples comparison
12 of Canadian utilities -- uses a different measure of
13 debt/equity than Manitoba Hydro's. And int --
14 interestingly, Manitoba Hydro comes up pretty well,
15 compared to BC Hydro, over the last three (3) years.

16 So Mr. Harper would suggest that if you
17 want to benchmark against other utilities, perhaps use the
18 same analytical approach. And certainly, the Coalition
19 sees little value in drawing information from, for
20 example, the ICBC annual reports, looking at contributions
21 from the Columbia River Treaty, which -- which certainly
22 doesn't apply to Manitoba.

23 Mr. Harper, the pragmatist, points out what
24 is irrelevant from it, at least to his judgment, in the
25 terms of bond rating agencies is continued improvement in

1 equity levels.

2 And he also observed that in terms of a
3 drought or adverse event, debt/equity -- the target and
4 the percentage is of less rele -- relevance than the
5 actual number; 75/25 in the -- in the face of a -- if it
6 amounts to only \$500 million, is of lef -- less relevance
7 than a -- a less favourable percentage, but a higher
8 absolute number, i.e., 2 billion.

9 I think my clients are going to straddle
10 firmly on the fence on this issue, Mr. Chairman. They
11 think it does deserve re-examination. They're not
12 satisfied the debate in this Hearing has been focussed
13 enough. Partly that's their counsel's fault.

14 So in the context of the next GRA and
15 proposed major capital expenditures, they suggest we
16 should be re-examining the purpose of the target and the
17 best way to measure it.

18 Energy efficiency, turning to page 47, is
19 the Corporation getting optimal bang for the buck when it
20 comes to energy efficiency?

21 And I want to start out by focussing on
22 low-income issues near and dear to the heart of the
23 Coalition. And certainly, just start with an observation
24 by Mr. Kuczek. He suggests that low-income consumers may
25 behave in a manner that's somewhat different from other

1 consumers. You're dealing with a different market when
2 you're dealing with persons who are struggling on a day-
3 to-day basis just to get by.

4 At page 49, we provide some insight into
5 the barriers faced by low-income individuals, in terms of
6 energy efficiency, and they're not particularly
7 contentious. In fact, Mr. Kuczek and Mr. Dunsky appear to
8 be in general agreement, so I won't belabour the point.

9 Access to capital is a significant one.
10 Split or displaced incentives is a -- a major point, and
11 Mr. Kuczek makes the point that split incentives
12 disproportionately hit low-income persons who are
13 disproportionately renters.

14 There's tremendous barriers just in terms
15 of organizational practices and customs. And this point
16 was well made by Mr. -- Mr. Dunsky. Landlords, even if
17 they see an economic benefit in energy efficiency -- or
18 could see such a benefit -- some may choose to operate
19 purely on a low-cost model and not be interested.

20 And contractors are very -- excuse me --
21 some contractors may distrust low-income consumers or be
22 unwilling to enter into the market. And this really goes
23 -- this point goes essentially to the -- the design of the
24 Low-Income Energy Efficiency Program.

25 Other challenges are added as well,

1 including, by Mr. Kuczek, higher than average mobility,
2 which adds uncertainty to economic -- to the economic
3 value of long-term investments.

4 On the next page, it does not have a page
5 number, but I -- I put in Mr. Dunsky's famous table of the
6 fifteen (15) simple steps from -- in terms of the Low-
7 Income Energy Efficiency Program, which he diagrammed in
8 terms of a way for an individual to access the program.
9 And I thought it was a -- a helpful introduction to Mr.
10 Dunsky.

11 I do want to spend a second on Mr. Dunsky.
12 We are tremendously pleased to be able to -- to share his
13 expertise with the -- with the Board. In our respectful
14 submission, he's really on the cutting edge of some
15 exciting programming in the Eastern Seaboard and in the
16 Province of Quebec.

17 Well, what does he say about this market?
18 It's a very complex market. It's a difficult thing to do.
19 It's complex to design -- and I'm on page 50 -- an energy
20 efficiency program for this market segment that actually -
21 - that -- that's actually going to work.

22 So word of warning from Mr. Dunsky right at
23 the start, this is not easy. This is not a market like
24 other markets. And, as he noted, in his disappointment in
25 one of his Quebec pilot projects, the biggest challenge is

1 actually getting people interested in participating, even
2 -- even though it's free of charge.

3 And I've outlined -- and Mr. Dunsky's oral
4 evidence speaks for itself, but he's identified four (4)
5 keys to success.

6 Keep it simple; a turnkey approach with the
7 utility or its contractor taking ownership of what you're
8 trying to do with the customer.

9 Keep it free. He offers some important
10 caveats to that.

11 Focus on outreach and be comprehensive.

12 And in the big picture, and I'm going to go
13 into details in a minute -- in the big picture, he
14 identifies three (3) major weaknesses with the Low-Income
15 Energy Efficiency Program, Manitoba Hydro, three (3) major
16 issues which suggest that in terms of achieving energy
17 efficiency for low-income persons, but both for efficiency
18 reasons and equity reasons, it's -- it's as currently
19 designed less likely to be successful.

20 The biggest one, going back to the -- the
21 page just before, is its complexity for individual
22 consumers. He describes it as a serious barrier, too many
23 -- too many stops. Hydro has not taken enough ownership
24 of the program.

25 It's a serious barrier, and it's going to

1 diminish participation, not slightly, not moderately, but
2 tremendously. There's an enormous barrier here that will
3 significantly affect -- affect participation. And he made
4 the point strongly, the best practices universally suggest
5 employing the turnkey approach.

6 He also identified a -- a challenge, in
7 terms of community-based organizations. Some will be
8 brilliant and tremendous. Some will have very material
9 capacity concerns. And Mr. Dunsky's point was you have to
10 ask the hard questions now. Either be very selective in
11 who you're -- you're choosing, or invest heavily in
12 training. He also identified significant concerns
13 with measures which were either not included or not
14 careful -- not appropriately included. And he has
15 strongly critical words for the furnace component program
16 -- furnace component element of this program. It isn't
17 much of one. It's simply not going to address those
18 barriers. There is no way this is going to get the early
19 replacement opportunity.

20 That's the high level. And -- and I'm
21 going to come back to Mr. Dunsky, but we spent a long time
22 with Hydro on the Low-Income Energy Efficiency Program,
23 because we wanted to make some -- some key points. And
24 these start at page 52.

25 One point, and I'm not going to spend a lot

1 of time on this page, but certainly the able Board legal
2 counsel cross-examined Hydro to some degree about the Low-
3 Income Energy Efficiency Program and the fact it wasn't
4 meeting the RIM test. And that's pretty clear.

5 And -- but the bottom line, and I think Mr.
6 Kuczek said this -- and again I'm not going to spend a lot
7 of time on this page, because I think most of us in this
8 room are on board with this concept, Submission (c) on
9 page 52 -- is that Low-Income Energy Efficiency Program is
10 good for -- for the portfolio. It offers some significant
11 potential bill -- bill impacts for low-income consumers,
12 and it's getting into a marketplace where the -- that has
13 not participated as much as we'd like.

14 And Mr. Bowman, I thought, had something
15 thoughtful to say on this point as well. He's quite
16 supportive of the RIM test. But he noted that low-income
17 DSM is not always going to meet the RIM test. But there
18 still may be reasons to pursue it that relate more to --
19 to a policy perspective than an economics perspective.

20 Turning to page 53, Hydro has, at a high
21 level, set up quite ambitious goals in terms of the low-
22 income energy efficiency. Mr. Kuczek said, at page 989,
23 Our objective is to totally clean up the market.

24 But when you actually look at what they're
25 purporting to do over the next three and a half (3 1/2) to

1 four (4) years, the rhetoric does not accord with the
2 reality.

3 Their target market is seventy-six thousand
4 (76,000) households, 35 percent approximately of which are
5 electrical. That calculation, of course, excluded
6 customers residing in apartment suites. And as we've
7 noted in Coalition 5, Exhibit 5, that's almost a hundred
8 thousand (100,000) apartment suites. Not all of them are
9 low income, but -- but certainly there's huge issues in
10 terms of tenants.

11 Hydro's objective over the next three point
12 five (3.5) -- three and a half (3 1/2) to four (4) years
13 is forty-six hundred (4,600) households, expecting 35
14 percent of those to be electrical or a bit more.

15 So if you do the math, and Mr. Kuczek was
16 good enough to do it for me, forty-six hundred (4,600) as
17 a percentage of seventy-six thousand (76,000) is only 6
18 percent of the total target over three and a half (3 1/2)
19 to four (4) years. As he acknowledged and conceded, it's
20 a small number, a bit less than 2 percent per year.

21 And that raises tremendous concerns for my
22 clients, given the cost pressure that low-income consumers
23 are on. This is a very muted progress to low-income
24 energy efficiency.

25 This -- the bottom of page 53 to the top of

1 page 54 certainly relates to a point that Mr. Dunsky made
2 about the challenges in this marketplace and the
3 challenges of working with community-based organizations.

4 How are we doing on -- on this program to
5 date in terms of plans? Well, the Centennial Pilot
6 Project, it actually started out with a plan. But at the
7 end of the day, it wasn't really used.

8 So sometime going forward, Hydro's intent
9 is to have a plan and a contract with these community-
10 based organizations. But at the time of my cross-
11 examination of Mr. -- Mr. Kuczek, no model or template for
12 a community energy efficiency business plan had been
13 developed yet, although there was intentions to meet with
14 community organizations and First Nations to develop one.

15 I've noted before that this is a -- a small
16 number that Hydro's aspiring to. My clients' concerns are
17 not only with the small number, but they have grave
18 concerns that even this small number will not be reached.

19 Mr. Kuczek notes, in the middle of page 54,
20 that a lot will depend on community-based organizations.
21 And you certainly heard Mr. -- Mr. Dunsky's comments about
22 that, and also his -- the -- one of the key points he
23 makes is that outreach is so essential. And I think that
24 Mr. Dunsky certainly questions the -- the degree of
25 reliance upon community-based organizations that Hydro is

1 -- is currently employing.

2 Of concern to my clients was that there was
3 no criteria developed for evaluating the capability of
4 community-based organizations.

5 So let's look at the pilot projects. How
6 are they doing? Well, as Mr. Kuczek candidly admitted,
7 We're not meeting the targets that we originally thought
8 we could meet. The community organizations came up with
9 the number of ten (10) per month, and they haven't met
10 those targets to date.

11 And we've set out, at the top of page 54,
12 the three (3) communities, their targets and how they've
13 done, at least in -- into getting into the homes.

14 In Brandon, at the time of this cross-
15 examination, they had a target of a hundred and twenty
16 (120). They're in forty (40) homes, all Manitoba Housing
17 Authority homes, no private sector homes.

18 Island Lakes, a hundred and ten (110) and
19 zero homes.

20 The Centennial Project's a hundred and
21 twenty (120) -- actually in a hundred and eleven (111)
22 homes, again, all MHA, no private.

23 Island Lake, we provided the material that
24 we thought they required to do a hundred and one (101)
25 homes, and it's sitting in storage right up there now.

1 evidence with interest, but, we have to be careful how we
2 work with these groups. We are monitoring things
3 informally on a flexible, ad hoc basis, kind of a
4 piecemeal type of approach.

5 And that's certainly of concern to my
6 clients, as is the fact that these targets are under-
7 representative of tenants. And as Mr. Kuczek admits,
8 homeowners, as opposed to renters, would disproportionately
9 benefit.

10 In terms of tenants, there are a couple of
11 apartment pilots which are a good thing, but no business
12 plan. It's learn as you go.

13 Just turning quickly to tenants -- and --
14 and, the bottom of page 56, the top of page 57, the
15 barriers for renters are acknowledged by Mr. Chernick, Mr.
16 -- Mr. Dunsky as well. There's a split incentive problem,
17 a capability problem. There's also shorter investment hor
18 -- horizons due to uncertain tenure.

19 And Mr. Chernick's got some interesting
20 evidence on that point. I -- I won't belabour it, but at
21 the middle of page 57, he cons -- agreed that there's a
22 risk for renters under an inverted rate structure. The
23 risk is that they will experience the higher costs but
24 lack the capability or can't make the business case to
25 respond to the energy efficiency sig -- signal.

1 So Chernick's point, as I understood it, is
2 if -- if you're moving into an inclining rate structure
3 environment, you would want to have a set of energy
4 efficiency programs that were available to everyone and
5 would actually work in the marketplace.

6 And certainly from my client's perspective,
7 they don't have confidence in terms of the Low-Income
8 Energy Efficiency Program. There isn't to date a tenant's
9 program, and they also have concerns for rural customers
10 who -- who have no real competitive options, such as
11 natural gas.

12 Now I tried to push Mr. Chernick on
13 gradualism at page 2959 of the transcript. I suggested to
14 him, you might want to go slower if you don't have these
15 programs which you say are an important pre-condition in
16 place.

17 He was going -- prepared to go with me only
18 a little ways, but a little ways down that path. He said
19 that if you -- if you say that, by the time you get the
20 programs designed and worked out, it might be a year or
21 two (2). So he wanted to have a little less of an
22 inverted block, well, maybe. So, he wasn't jumping up and
23 down in terms of enthusiasm for gradualism, but he was
24 prepared to concede that it might be important.

25 Turning to page 59, in terms of energy

1 efficiency programs, low-income energy efficiencies, my
2 clients have three (3) concerns. They're not set out
3 expressly on this page.

4 A first, that the -- in terms of low-income
5 energy efficiency and tenancies, progress is too slow.

6 They've also got material concerns,
7 secondly, with the design of low-income energy efficiency
8 programs, which suggest that even the limited ambitions of
9 Manitoba Hydro will not be achieved.

10 A third question -- and I think out of
11 fairness to Hydro -- that also has to be asked, If our
12 objective is really increased participation, how are we
13 going to pay for that?

14 And so my clients have four (4)
15 recommendations in -- in recard -- with regard to low
16 income and tenancy DFM.

17 First of all, copying Mr. Dunskey, modify
18 the program design to ensure turnkey service.

19 Assess -- secondly, assess CBO's capacities
20 prior to contracting.

21 Third, add a fridge replacement component
22 and adopt a more aggressive approach to furnace
23 replacement. And fourth, in recognition that the --
24 that the role of the low-income energy efficiency and
25 tenancy programs is too slow, request a proposal for an

1 expedited rollout, which address costs, benefits, and
2 source of funding.

3 Mr. Chairman, I apologize for this, if I
4 could stand down for like three (3) minutes, with your
5 permission?

6 THE CHAIRPERSON: That is fine.

7

8 --- Upon recessing at 11:35 a.m.

9 --- Upon resuming at 11:38 a.m.

10

11 CONTINUED BY MR. BYRON WILLIAMS:

12 MR. BYRON WILLIAMS: Thank you for the --
13 the respite.

14 Inverted rates, it's an important part for
15 Mr. Chernick. Inverted rates don't substitute for good
16 energy programs from the Utility.

17 And something that's interesting on page
18 59; certainly as we look at inverted rates from an energy
19 efficiency perspective, NERA did some interesting work
20 examining a number of scenarios in terms of inverted
21 rates.

22 And it looked at the largest impact on the
23 revenue requirement in terms of where it would be achieved
24 and given the scenarios that evaluated. For residential
25 consumers, the largest impact on the revenue requirement

1 was a negative 2 percent; for medium general service, a
2 negative 8.4 percent; and for general service large
3 greater than 100 kV, negative 13.3 percent.

4 And Mr. Wiens confirmed in discussion with
5 me, when the question was posed, why so much more for GSL
6 large, why are there -- there are so much more in terms of
7 impact on the revenue requirement and efficiency gains as
8 compared to residential. Why is that?

9 Two (2) reasons. Well, actually he said
10 three (3), but the third I couldn't understand. But it's
11 at page 2371.

12 The two (2) -- the two (2) answers that I
13 liked though and that I understood: in large part, he said
14 greater relative elasticity at page 2371. I think that
15 was a big reason. And he also noted the -- a greater gap
16 between current prices charged and marginal costs. I
17 think he commended me for my good work on -- on that
18 point.

19 In terms of inverted rates, turning to page
20 60 -- and I've stated this before, but I think it's
21 important to restate -- it's important to understand that
22 there's a potential impact on low-income consumers. We
23 know that the group that's more likely to experience above
24 average rate increases through this are those consuming
25 more than 18,000 kilowatt hours per year.

1 In terms of the raw numbers, again, this
2 isn't an exact proxy for low income, but we do know that
3 between eighteen (18) and nineteen thousand (19,000) of
4 those earning less than thirty thousand (30,000) a year
5 were in that consuming more than 18,000 kilowatt hours per
6 year.

7 And in terms of all-electric customers
8 there's between sixteen (16) and seventeen thousand
9 (17,000) earning less than thirty thousand (30,000) a year
10 and consuming more than 18,000 kilowatt hours annually.

11 Turning to page 61, my clients had divided
12 the issue of inverted rates into two (2) separate issues.
13 The one -- the one (1) issue is, is it time now? Is it
14 time?

15 And generally, my clients are supportive of
16 the concept analytically. But they have important
17 significant equity concerns: concerns for the impact of
18 all-electrical with no competitive options; concerns for
19 low-income persons who lack the resources to pursue DSM;
20 and concerns for renters who may lack the ability to
21 pursue DSM or for who energy efficiency is uneconomic due
22 to split incentives.

23 But what did Mr. Harper say? Generally, he
24 said in theory inverted rates are a good thing from an
25 efficiency perspective. And he, I would suggest,

1 established three (3) hallmarks of success -- of a
2 successful inverted rate program. They should achieve
3 efficiency results, there should be sufficient programs
4 available so consumers can take advantage as to widest
5 possible extent, and that they be publicly acceptable from
6 a fairness perspective.

7 Mr. Harper noted barriers, in terms of
8 customer's abilities to respond to the rate -- rate signal
9 offered by inverted rates for low-income individuals,
10 tenants, and those in rural areas lacking competitive
11 alternatives.

12 And he argued -- and I've highlighted this
13 on page 62 -- for both fairness and efficiency reasons,
14 these situations need to be addressed if residential
15 inverted rates are to be successful.

16 Mr. Harper was in general agreement with
17 Hydro's proposals for 2008, which he characterized as
18 "modest." But he identified key issues to address before
19 further implementation. Again, an advocate of gradualism
20 and though -- addressing the barriers which I've averted
21 to previously.

22 Mr. Wiens is another person, even when he
23 is not talking about Mr. Bonbright, who I like to listen
24 to. And he also acknowledged, in terms of inverted rates,
25 the barriers to customers' abilities to respond and

1 expressed, at the bottom of page 62, some sympathy for
2 this. And that's why he would advocate gradual
3 implementation.

4 And the difference between the low-income
5 population and the proposed piece of implementation of
6 low-income DSM programming would be one of the factors
7 suggesting caution in the pace of which inverted rates are
8 implemented.

9 So that's what Mr. Wiens and Mr. Harper
10 recommended. I've talked about Mr. Chernick previously.
11 My clients are going to take issue, a little bit, with --
12 with those recommendations.

13 They acknowledge and accept and are
14 persuaded that inverted rates offer an important price
15 signal, but that acknowledgement is overshadowed by their
16 equity concerns.

17 They appreciate the recognition of fairness
18 issues and calls for gradualism as offered by Mr. Harper,
19 Mr. Wiens and, to some extent, Mr. Chernick. However, my
20 clients believe fundamentally that it's unfair to
21 implement inverted rates before giving vulnerable groups
22 to -- the tools to achieve energy efficiency.

23 They recommend delaying inverted rates
24 until the DSM house is in order, particularly for low-
25 income persons, tenants, and all-electric with no

1 competitive options.

2 And the other point they want to make on
3 inverted rates on this area: in the event the Board
4 decides to implement inverted rates at this point in time,
5 Mr. Weiss, on behalf of TREE/RCM in Exhibit RCM/Tree
6 Number 6 -- and you don't need to go there, but he had
7 some very important things to say -- and we commend him
8 for that -- in terms of educating the public about
9 inverted rates and the purposes of them.

10 And my clients are not necessarily
11 recommending Mr. Weiss' advice there. But he had some
12 important things to say about the need to use a focus
13 group of customers, targeting residential customers with
14 much higher than average use.

15 He also had some interesting things to say
16 about separating the rate in -- any rate increase from
17 inverted rates so that they could be implemented on a
18 revenue-neutral basis.

19 And, finally, that the tiering be gradual.
20 That is, the differences in block prices should gradually
21 increase over two (2) to three (3) years.

22 So, my clients fundamentally think it's an
23 important idea but it -- that its time has not come. To
24 the extent that the Board believes its time has come, they
25 can't overemphasize the importance of public education.

1 We saw with the example of Smart Metres how
2 public education seemed to be more valuable than the
3 meter. And that's a theme, I think, that my clients think
4 has been highlighted in this Hearing.

5 The other issue, in terms of inverted rates
6 -- and I'm turning to page 64 -- is really how you balance
7 those issues of equity, economic efficiency, and
8 administrative efficiency, in terms of the design of
9 inverted rates.

10 I'm not going to belabour this point. But
11 there's really, on the analytical table in this Hearing,
12 three (3) different approaches to inverted rates.

13 There's a current Manitoba Hydro proceed --
14 approach, which is one (1) block for all and no seasonal
15 different -- differentiation. Mr. Harper certainly
16 suggested that Hydro might want to look at a seasonal
17 differentiation, which would provide some more protection
18 to those who tended to use more in the winter. That's
19 certainly what Ontario Hydro has done.

20 And Mr. Chernick suggested differentiation
21 with an all-electric block versus a standard-use block.
22 And we just note at page 64 -- we do note at page 64 --
23 that NERA looked at -- at these issues. And they
24 preferred the seasonal variability -- variation, both for reasons
25 of economic efficiency and administrative benefit.

1 And Mr. Wiens seemed to lean that way as
2 well as, certainly -- although I think he -- he suggested
3 was preliminary, he registered some significant concerns
4 with the going to an all-electric versus the standard
5 approach.

6 And Mr. Harper as well seems to be, if --
7 if he was pushed, leaning towards a seasonal approach.

8 Notwithstanding that brilliant advice from
9 -- from NERA, Mr. Harper and Mr. Wiens -- Mr. Wiens more
10 cautiously -- my clients believe that if the Board, as --
11 as it looks to the development of inverted rate structure,
12 they really believe that the focus should be on the
13 differentiation between the all-electric block and the
14 standard-use block.

15 They recognize the administrative
16 difficulties and the efficiency arguments may run the
17 other way. But, from their perspective, the key issue is
18 the vulnerability, the vulnerability of those who rely
19 upon electric heat for their home heating. And they note
20 that the Rand study, which I cited earlier, suggests --
21 suggests that home heating is highly inelastic for those
22 with no competitive options.

23 So in the event, as the Board looks at --
24 at rate design in this area, that's certainly where my
25 clients are leaning in -- in strongly leaning in this --

1 at this point in time.

2 At page 66, my -- my clients offer same
3 brief comments about low-income discount programming. And
4 some have suggested -- certainly Mr. Chernick did, and I
5 think Mr. Wiess, as well -- that this is an important
6 vehicle which would allow one to implement either inverted
7 rates highly with a steep incline or a major in -- rate
8 increase and still protect the most vulnerable.

9 And by "low-income discount program," I'm
10 referring to programs most -- most common in the United
11 States, where target groups -- whether they be based upon
12 income or age or disability -- are offered reduced energy
13 rates in recognition of their -- their disproportionate
14 energy burden.

15 And at page 66, my clients have pulled
16 through some observations in terms of low income discount
17 programs. The bottom line is my clients are strongly in
18 favour of low-income energy efficiency program --
19 programming. They're not keen on low-income discount
20 programming, and there's some key reasons why.

21 One is the track record in the United
22 States. Despite funding of over \$4.5 billion in federal
23 and ratepayer assistance, there are simply not enough
24 funds to meet the low-income needs for energy assistance.

25 And Mr. Wiess noted this in one of his

1 exhibits -- I believe it was TREE/RCM Exhibit Number 9 --
2 and Chernick acknowledged this as well. There are
3 certainly many jurisdictions in which additional
4 assistance is required. In fact, evaluation data shows
5 that only one third (1/3) to less than one half (1/2) of
6 the eligible households are being served by these programs
7 in the United States.

8 And as Chernick admitted and acknowledged,
9 even among good quality affordability programs in the US,
10 there is this gap between those eligible and those
11 actually served.

12 When you look at re-certification, while
13 most customers remain in need of program assistance, only
14 40 to 65 percent re-enroll or re-certify. So there's a
15 huge gap between those eligible and those receiving
16 benefits, and even those receiving benefits often fail to
17 re-certify.

18 My clients are open to further study this
19 issue, but they're uncomfortable with the issue of low-
20 income discount programs. One major reason is the poor
21 record in the United States, in terms of participation.

22 They're also reluctant to leave low-income
23 consumers divided from other consumers. They feel that
24 while in the short term, under a -- a generous Public
25 Utilities Board, that there may be some short-term

1 now -- we have a reason -- and then we will come back at
2 1:00, get a bit of an early start. Thank you.

3

4 --- Upon recessing at 11:56

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

6

7 THE CHAIRPERSON: Okay, Mr. Williams, you
8 can continue on with your closing statements whenever you
9 wish.

10

11 CONTINUED BY MR. BYRON WILLIAMS

12 MR. BYRON WILLIAMS: We're -- we're
13 calling it the odyssey, I believe, Mr. Chairman. Page 68
14 -- there is light at the end of the type -- tunnel.

15 MR. ROBERT MAYER: Twenty-five (25)
16 minutes, if I recall correctly.

17 MR. BYRON WILLIAMS: I was going to
18 actually request that the twenty-five (25) minutes be
19 struck from the -- from the record, but I will try and be
20 tight.

21 I do want to dwell and -- and at -- at the
22 onset of this I've already -- of our presentation on
23 behalf of the Coalition, I've already talked about this.

24 But I do just want to spend a couple more
25 minutes on efficiency and marginal cost based pricing.

1 And just to point out an important exhibit, which -- which
2 is Hydro Exhibit Number 80, and it provided the estimated
3 short- term load reduction if marginal rates were applied.
4 And I've given two (2) examples from that exhibit in terms
5 of the load reduction.

6 You see for residential customers in the
7 short term a relatively modest 1.7 percent, whereas GSL
8 large, greater than 30 kV, in the range of 14 percent.
9 And, again, this -- I've put the explanation there. I
10 think Mr. Wiens helped me with this. It was the -- the
11 difference is due to the relative gap between actual rates
12 and marginal cost based rates and assumed elasticities.

13 And I -- I hate to disappoint Mr. Wiens,
14 but on pages 69 to 71, I have a -- an extensive discussion
15 of elasticity. And to a certain degree, Mr. Chairman and
16 members of the Board, I've -- I've talked about it
17 already.

18 On page 70, for example, you see a more
19 thorough sum -- summary of the Rand Corporation report,
20 which is Coalition Exhibit 31. Just towards the bottom of
21 that page, I did want to -- while -- while the -- the
22 study in its entirety, in my view, is quite supportive of
23 the position of the Coalition, there were a couple of
24 caveats that I thought were important to notice.

25 And one of the things was that the -- the

1 Rand Corporation said it observed while, you know, the
2 relationship between demand of price was small, there was
3 a need to examine more closely it in an increasing price
4 environment.

5 But what's interesting on the record of
6 this proceeding is we don't have a lot on the record, in
7 terms of an increasing price environment in the '90s. But
8 there's actually a couple of interesting studies about
9 what happened in the energy price shocks of the 1970s.
10 And It's Bodi and Zimmerman, there's one study, as is
11 Stevens and Adams.

12 And the -- the point they make is that the
13 -- again the struc -- even the energy price shocks of the
14 1970s didn't change the structural characteristics of
15 consumer demand. So I think that's an important --
16 important point.

17 And, again, with apologies to Mr. Wiens,
18 I'm -- I'm going to move to cost of service issues, which
19 appear at page 72 and 73, which is not out of haste. But
20 I believe the points on elasticity have been made
21 previously.

22 And, again, cost of service issue, I didn't
23 re-state the question. But the question I had asked
24 originally as part of the core issues is, How do we best
25 achieve fairness among ratepayers? Does the subject of

1 fairness include consideration of how the consumption
2 activities of one class affects the bills of all
3 consumers?

4 And to provide some context, we start at
5 page 73 on behalf of the Coalition. And there's four (4)
6 or five (5) important trends that we wish to make on
7 behalf of our clients.

8 One is the changing face of consumption,
9 and I went through this discussion, again, with Mr. Wiens.
10 If you go back twenty (20) years, when I was a Brandon
11 University graduate, you can see that at that point in
12 time, if you were comparing residential customers to the
13 general service top customers -- annual consumption, in
14 terms of gigawatt hours -- residential customers were
15 really significantly ahead of general service top
16 customers.

17 Today, or 2006/'07, yesterday, the second
18 line on this changing face of consumption table, you see
19 that we're very close to a crossover point where
20 residential consumption has increased, but much more
21 modestly than general service top customers.

22 And it's expected, as the first bullet
23 underneath indicates, that by 2009/'10, top customer
24 annual sales are projected to exceed residential.

25 And projecting out into the forecast about

1 a decade, eleven (11) years, we see in 2017/2018, the
2 forecast is for general service top customers -- be a
3 fairly significant amount above general residential
4 customers.

5 So, again, a marked change in terms of who
6 is making demands. Both demand -- demand from both
7 classes is growing, but one is growing at a much faster
8 pace.

9 What else is going on in the marketplace?
10 And if you -- under "B" on page 73, we -- we start to look
11 at the issue of how the consumption activities of one
12 class of consumers may affect the bill of all customers.

13 And for the Board's reference, the very
14 first page of the exhibit -- the other document, Mr.
15 Chairman -- that's also is a helpful graphic description
16 of what we're discussing. That's Exhibit Manitoba Hydro
17 86.

18 And a simple point we're making, for the
19 purposes of context, is when we look at average export
20 prices, we find them -- and if we're comparing large
21 industrial rates versus lower than -- than residential
22 rates, we see that average export prices tend to be higher
23 than larger industrial rates and lower than residential
24 rates. And that's graphically depicted on Exhibit
25 Manitoba Hydro 86. The blue bar rising vertically are US

1 and Canadian exports, the average price.

2 The blue -- the blue line is general
3 service large. You see that it's at or in the range of
4 between three (3) and four (4) cents.

5 And the red line -- the line above the
6 average export prices -- are residential customers.

7 And Mr. Peters went through this a fair
8 degree in his conversation in -- in cross-examination with
9 Manitoba Hydro.

10 To similar effect -- and I won't dwell on
11 it -- if you turn to the top of page 74, again you see
12 that average import prices tend to be higher than large
13 industrial rates and tend to be lower than residential
14 rates. Again, and I won't dwell on those points, the --
15 I've put in the citations from the records where -- where
16 that information appears.

17 A third important contextual factor when we
18 start to look at fairness among ratepayers and -- and the
19 issue of whether or not differential rate increases might
20 be mandated lies in the relative proximity to marginal
21 costs.

22 And by Manitoba Hydro's calculations,
23 certainly the Coalition might take issue with Manitoba
24 Hydro's calculation of long-run marginal costs, but they
25 don't take issue with the conclusion of Manitoba Hydro

1 that residential rates are closer to marginal costs than
2 those of large industrials.

3 And you see that on that table. It
4 appeared on the middle of page 74, the current rate for
5 residential of six (6) cents per kilowatt hour versus a --
6 the estimated long-run marginal cost of seven point six
7 (7.6). Whereas you see for GSL large greater than 30 kV,
8 they're about a little bit less than half of the long run
9 -- the estimated long-run marginal cost.

10 What else is going on in the market place?
11 Well, we -- if we look to the -- towards the future where
12 pressure on the -- where pressure on the -- on load growth
13 is appearing, we see that load growth for elec -- electric
14 -- electricity-intensive industry for the next five (5)
15 years is expected to amount to 57 percent of total load
16 growth.

17 And Hydro's conclusion, one in which the
18 Coalition shares, is that large energy-intensive industry
19 is being attracted to Manitoba on a scale that's large
20 enough to threaten the Corporation's revenue position.

21 In the short term, we see that impact as
22 load being diverted from the export market. In the long
23 term, that impact is load being diverted from the export
24 market, also with the implications of advancing costs in
25 terms of new generation transmission.

1 And, certainly, that's a -- a concern which
2 the Coalition understands the Minister of Hydro speaking
3 to in MIPUG Exhibit Number 12, and the concern that
4 increase consumption of low priced energy may displace
5 higher value export sales and lead to higher bills for all
6 domestic customers.

7 And certainly the clients think that as --
8 as one looks at the issue of cost of service, the
9 allocation of costs amongst classes, that issue of
10 fairness to other consumers is underlined by -- by this
11 analysis.

12 The other point -- and Mr. Wiens made this
13 more eloquently than -- than I would ever attempt to --
14 when you look at what type of load is most susceptible to
15 rates below market rates, energy-intensive industry is
16 more influenced than other industry and more influenced
17 than other classes by the price of electricity.

18 Mr. Chairman and Members of the Board, just
19 in terms of the exhibits -- the handout of exhibits, I'll
20 be directing your attention to in the top right-hand
21 corner, Coalition 28, in the next couple of minutes.
22 That's about in the middle of the -- of the exhibits.

23

24

(BRIEF PAUSE)

25

1 MR. BYRON WILLIAMS: And the point that we
2 want to underline on behalf of our clients, at page 76 of
3 the outline, is the different conceptions of equity that
4 are at play in this proceeding.

5 Mr. Wiens again des -- described a fairness
6 to mean as a principle that equal customers should be
7 treated equally in terms of assignment of costs and
8 unequals unequally.

9 And historically, embedded costs have been
10 used to define fairness. Embedded costs is captured in
11 the -- the cost of service studies, traditionally. And
12 the test is, we would suggest, are, are individual
13 customers paying their fair share of the costs incurred in
14 the past of -- of the costs incurred in the cas -- in the
15 past being used to service today's customers?

16 So that's one definition of "fairness," and
17 it's one that's traditionally been used by the Board and
18 certainly MIPUG advocates very strongly for continued,
19 almost exclusive, application of that definition of
20 "fairness."

21 But in the past Board orders, there's been
22 a sense that when we look at fairness, when we look at an
23 equitable allocation of costs, we should be taking into
24 account other considerations: pre-export costs of service
25 based on embedded costs; perhaps more importantly,

1 marginal costs.

2 And Mr. Wiens acknowledges that while we do
3 tend to look at the past, is also true that one can look
4 at any kilowatt hour and say it is a marginal kilowatt
5 hour as well.

6 And some jurisdictions -- notably New York,
7 California, Oregon -- are using a different test to define
8 fairness. They are looking to something I'll describe as
9 "the equal proportion of marginal costs." And they --
10 they, for that purpose, they look at the costs that the
11 current customer's consumption decisions will lead to in
12 the future. And what does Mr. Wiens say about this?
13 Well, he says that there's a case to be made, that you
14 need to give it some weight -- this idea of marginal costs
15 -- when you've got the type of divergence between embedded
16 and marginal costs that were seen in this jurisdiction
17 today.

18 What we've done in COALITION-28 is attempt
19 to articulate some of these different concepts of equity.
20 And we -- we've captured, I believe, on behalf of our
21 clients, all but one (1) on here, and I'll address that in
22 a second. In the -- in the second column, you see the
23 revenue costs coverage ratio, assuming no exports. You
24 see the total is about seventy-five (75) -- on average,
25 it's seventy-five point one (75.1).

1 And you see that there's a fairly close
2 relationship using -- leaving aside Mr. Buhr, and he
3 really is the outlier in all of this analysis. But
4 leaving aside Mr. Buhr and wishing him a happy retirement,
5 we -- you see the -- the difference, assuming no exports
6 between residential and GSL large greater than 100 kV is
7 really quite -- quite modest.

8 Now once you throw exports into the
9 traditional, looking backwards, embedded costs
10 perspective, then you get to the third column. And,
11 again, comparing residential versus GSL large, you see
12 that residential is still within the zone of
13 reasonableness.

14 But you can understand the disquiet with
15 which MIPUG's clients look at the embedded Cost of Service
16 Study and say, Well perhaps we're paying too much, and
17 perhaps GSL large less than 30 kV should be paying a bit
18 more.

19 Now Hydro has expressed some discomfort
20 with the -- what they interpret to be the Board-approved
21 cost of service methodology and their preferred method --
22 methodology is captured in the fourth column, COALITION 1-
23 59.

24 And, again, you see a relatively -- looking
25 at residential and GSL greater than 100 kV relatively

1 close relationship. So that's looking back. That's
2 looking using one perspective on fairness.

3 Well, let's look forward. And really what
4 we've done in the last two columns here is take the
5 results from Manitoba Hydro Exhibit 68 and normalising
6 them -- normalize them.

7 And then, on a forward-looking basis -- on
8 a normalized, forward-looking basis, one gets a very
9 different perspective on fairness, taking again, GSL large
10 greater than 100 kV, at zero point eight one five (0.815)
11 versus residential one point one zero (1.10).

12 So the question becomes, What does one do
13 with these different conceptions of equity? What weight
14 does one accord to them? Are these reliable ways of
15 looking at the issue? And I'm going to skip over page 77,
16 because I think I've -- I've dealt with that. And I'm
17 actually going to go to page 80 and then come back to
18 pages 79 and 70 -- 78 and 79.

19 So leaving, again, aside the area and
20 roadway lighting, one of the issues raised in this Hearing
21 is, given the embedded costs of service results, should we
22 be seeking and applying differential rate increases?
23 Certainly that was raised by Board counsel in cross-
24 examination. Certainly, it was been raised in the
25 evidence of MIPUG. That information's before the Board.

1 What we want to concentrate on on page 80
2 is what, first of all, Mr. Harper says. And what Mr.
3 Harper says is that certainly weight should be given to
4 the embedded Cost of Service Study, significant weight.
5 But the PUB should be aware that other factors, such as
6 pre-export allocation and marginal costs, can yield
7 significantly different results.

8 Hydro has a -- a similar position to Mr.
9 Harper. It says it's premature to differentiate among
10 classes. And one of the key reasons they cite is that
11 when you take a marginal cost perspective, that might
12 provide a very different set of recommendations when it
13 comes to differential rate increases. And going back to
14 Coalition Exhibit Number 28, that's the best illustration
15 of Hydro's point in the respectful view of the Coalition.

16 If one looks at the PUB embedded Cost of
17 Service Study, that would suggest that GSL large might be
18 looking at a -- a slight -- a slightly lower rate increase
19 relative to other classes.

20 Going to the normalized efficiency or
21 marginal cost perspective in the far right-hand column,
22 that suggests that GSL large perhaps should be
23 experiencing a higher than average rate increase.

24 So these are the mixed messages. And --
25 and for that reason our clients, with the exception of

1 roadway lighting, reject the differential rate increase.

2 They think that while significant weight
3 should be given to the embedded Cost of Service approach,
4 there is legitimacy to giving weight to other factors,
5 such as pre-export allocation and marginal -- marginal
6 costs. And those factors certainly yield a -- a different
7 result.

8 Just flipping back very quickly to pages 78
9 and 79 of the Coalition submission, Man -- the Manitoba --
10 the expert witnesses for MIPUG took issue with Manitoba
11 Hydro and -- and the Coalition's approach to the marginal
12 cost perspective and suggested a -- a different approach,
13 in terms of calculating marginal costs in Exhibit Number
14 15.

15 And no one asked Mr. Harper the question of
16 whether he preferred the -- the COALITION-28 approach or
17 the -- the MIPUG approach. And that's unfortunate,
18 because I think he had a valuable answer. But I've
19 certainly set out, in pages 78 and 79, an analysis of --
20 of which approach is correct. And given my time
21 commitments and also my fatigue, the Board can read that
22 at its leisure.

23 But if the Board wants to look at the
24 implication of using a marginal cost-based Cost of Service
25 in -- in the view of the Coalition, it should not use the

1 results of MIPUG-15. And the results portrayed in
2 COALITION-28 are -- are much more reliable.

3 And the primary reason is that the MIPUG
4 approach distorts its results by forcing reconciliation to
5 an embedded cost approach of an in -- individual function
6 basis. And without belabouring this point, it's discussed
7 at some detail on pages 78 and 79 of the outline.

8 Again just a -- a few small notes going on
9 through page 81. The Coalition thinks it's also important
10 when we look at marginal costs to recognize that Hydro's
11 marginal cost analysis may overstate the local
12 distribution and customer costs, and that's discussed on
13 this page.

14 And to the extent that that -- that Hydro
15 is in error, these errors would be disproportionately borne
16 by the residential class, general service small and to a
17 lesser extent, medium. So that's an important point the
18 Coalition thought was a -- that should be made.

19 Finally on page 82, the residential monthly
20 charge, this is a bit of a difficult one. Certainly, the
21 Coalition recognizes that customer-related costs are a
22 legitimate cost.

23 What -- what they're softly recommending to
24 the Board is on the fourth bullet there. Given the other
25 rate design issues, perhaps the basic monthly charge --

1 the basic monthly charge should be focussed on recovering
2 a percentage of the customer costs, excluding customer-
3 related distribution flat costs. And I've elaborated on
4 that briefly there.

5 Two (2) final points on pages 80 -- well,
6 one (1) -- one (1) of my two (2) final points on page 83,
7 Mr. Chernick has raised a very valid point about marginal
8 cost estimates and the lack of transparency in -- in which
9 they're currently calculated. And we think that the
10 experience that he's drawn upon from other jurisdictions
11 is valuable.

12 And that might be something that the Board
13 might want to look at, is prior to the next general rate
14 hearing, sending the parties away to -- to see if they can
15 come up, perhaps with the assistance of Board counsel,
16 with some way to discuss ways to address Intervenors'
17 concerns with transparency and being able to test marginal
18 cost analysis and reconcile that with the Corporation's
19 concerns -- legitimate concerns -- in terms of commercial
20 information.

21 Certainly, it seems to be possible in other
22 jurisdictions, and that's something that -- that would be
23 helpful for future regulation of the Corporation.

24 On page 84 and 85, one brief comment about
25 rates for new and expanded industrial load. There's a new

1 -- our assumption, on behalf of the Coalition, is that
2 there's a new hearing pending. We look forward to that on
3 behalf of our clients.

4 But at the bottom of page 84, we do raise
5 some comments or concerns in terms of the dispute
6 resolution process as proposed in the existing Manitoba
7 Hydro application.

8 And, as we understood it, in the event that
9 there was an -- a dispute between -- in terms of baseline
10 or exemption between Hydro and a company, that dispute
11 would -- would come before the Public Utilities Board.
12 But in the event that there was an exemption, it wasn't
13 contemplated that that would be -- come before the Public
14 Utilities Board or be testable in -- in some sort of
15 public forum.

16 And that's an important transparency issue
17 from the perspective of my clients, because to the extent
18 that exemptions are granted, they will put upward pressure
19 on other customer bills. So when Manitoba Hydro comes
20 back -- so when Manitoba Hydro comes back with its new
21 proposal, my clients are certainly hoping to see that
22 addressed.

23 Mr. Chairman, I believe I've gone through
24 the recommendations of the Coalition which appear at pages
25 86 and 87 in their sum. We don't answer the 31 questions

1 posed by the Board, but I think -- I'm fairly confident
2 that this addresses the recommendations that -- that have
3 appeared before the Board. And subject to any questions
4 by the Board, these are the submissions of the Coalition.

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

7 Mr. Peters, I imagine there will be no
8 difficulty having the whole brief put on the record?
9 Because on some elements, he just skipped over and
10 referred to it.

11 MR. BOB PETERS: I will canvass that at
12 the break and report back. But I think if we have it
13 electronically from Mr. Williams' office, we can work with
14 it.

15 THE CHAIRPERSON: Very good. Thank you.
16 Thank you again, Mr. Williams.

17 MR. ROBERT MAYER: Just one question
18 before you leave, Byron.

19 On the -- on that last issue that you
20 raised, on the issue of exemptions, do I read into this
21 that you are suggesting that should any other potential
22 intervenors challenge an exemption, they should be able to
23 bring that forward as well?

24 MR. BYRON WILLIAMS: Mr. Chairman, I'm not
25 sure that -- or Mr. Vice Chair, I'm not sure that I, on

1 behalf of the clients, had -- had gone that far down the
2 path.

3 What we were raising was the fact that
4 these exemptions can have -- there's two (2) issues with
5 these exemptions. One is some other industry players may
6 feel that they're treated unfairly. Also, other
7 interested parties -- other consumer groups -- may feel
8 that -- that there's been a backdoor deal or some unfair
9 process by which this exemption has been granted, which
10 has put pressure on rates.

11 And so, from that perspective, we're
12 flagging the concern that certainly one -- one might want
13 to at least have regulatory approval or consideration of
14 these exemptions.

15 And I apologize I'm -- if I'm dodging.
16 It's because I -- I was really focussing on behalf of the
17 clients on the other consumers rather than the -- than
18 other industrial players. So we're -- we're hoping -- we
19 don't have a recommendation. We're hoping Hydro addresses
20 its mind to it.

21 MR. ROBERT MAYER: Mr. Williams, the Board
22 has -- this panel, in any event -- has similar concerns.
23 We were, I think, some of us looking for a recommendation
24 in this regard.

25 And I take it that that might have to wait

1 for another day?

2 MR. BYRON WILLIAMS: Mr. Chairman or Mr.
3 Vice Chair, and with permission of the Board, I -- I can
4 chat with my clients about this. And if -- if they have
5 some more specific thoughts, if other parties don't
6 object, we would put those in writing by tomorrow, if --
7 if that's helpful. I'm not sure I'll get instructions,
8 but if I do, we'd be pleased to do that.

9

10 (COALITION SUMMARY INSERTED BELOW)

11

12 Outline of the Closing Argument of the Coalition

13 May 21, 2008

14 The Coalition

15

16 Consumers Association

17 spectrum of consumers

18 different levels of income

19 working or fixed

20

21 Society of Seniors

22 spectrum

23 many on fixed incomes

24 many still in labour force

25

1 Winnipeg Harvest
2 serve many low income people
3 some on assistance, EI or disability,
4 many working poor
5
6 Collectively a broad perspective
7 balancing act
8 fairness in the marketplace
9 affordability
10 sustainability
11 Not just persons in the way
12
13 Chernick (2973) (didn't want to see some percentage or
14 some fraction of low income customers "getting in the way"
15 of the implementation of inverted rates)
16
17 repeated elsewhere on transcript
18 Clients do not consider themselves an obstacle to progress
19
20 Share many of the same goals and outlooks as others in the
21 proceeding (TREE/RCM, MKO, Hydro, MIPUG)
22
23 sustainability
24 value of price signals
25 importance of a stable, self sustaining Manitoba Hydro to

1 the Province of Manitoba
2 value of affordable, high quality service
3
4 Where the Coalition perhaps differs from other
5 organizations
6
7 perhaps greater focus on the reality and current stresses
8 on consumers in the marketplace
9
10 perhaps more nuanced approach to the complexities of human
11 behaviour with somewhat less emphasis on price signals as
12 a path to efficiency
13
14 Consumers in the Marketplace of 2008
15
16 Household Financial Distress
17 . . . growing inequality of disposable family income over
18 the last twenty years . . . the bottom four deciles (40%)
19 of households have noted no improvement in their real
20 after-inflation disposable income over this period . .
21 (PUB Order No. 39/08, p. 48)
22
23 While the incomes of the poor have not risen in real
24 terms, the cost of living has. House prices have risen
25 dramatically, leading to reduced levels of home ownership

1 and increasingly higher rent levels. The disposable
 2 income of "poorer" households has been pressured not only
 3 by rising occupancy costs but also energy pricing -
 4 transportation and household, water rates, bus fares,
 5 cigarettes and food. (PUB Order No. 39/08,49)

6
 7 Another indication of household financial distress is the
 8 annual level of natural gas disconnections in Winnipeg and
 9 Brandon residences. In recent years, between 5,000 and
 10 9,000 households have had their services disconnected as a
 11 result of delinquency. (PUB Order No. 39/08,50)

12

13

14 Residential Electric Disconnections 2007/08 (MH Exhibit
 15 81)

16

17	Winnipeg	Rural	Total
18	6428	2512	8940

19

20 The Importance of Tenants in the Marketplace

21 The Manitoba Housing Marketplace - Tenure (Coalition 5)

22

23	All housing	Owned	Rented	Band
24	tenures			
25	448,780	309,300 (68.9%)	127,895 (28.5)	11,585

1 (2.6%)

2 (Excluding duplex apartments, 97,745 apartment units or
3 21.8% of the marketplace)

4

5 The Economic Disadvantage of Renters

6 The Manitoba Housing Marketplace - Average and Median
7 Income (Coalition 5)

8

Average Household Income (\$)			Median Household Incomes		
All	Owned	Rented	All	Owned	Rented
51,568	61,594	29,727	42,419	53,188	23,583

12

13 Housing Affordability Challenges for Many Renters and
14 Homeowners

15

16 The Manitoba Housing Marketplace - Affordability
17 (Coalition 5)

18

19 Tenant-Occupied households spending 30% or more of
20 household income on shelter

21

22 Winnipeg 37.8

23 Rest of Manitoba 34.7

24

25 Owner occupied households spending 30% or more of

1 household income on shelter

2

3 Winnipeg 11.6

4 Rest of Manitoba 10.8

5

6 Energy Affordability Challenges

7

8 *energy bills are still unaffordable for many customers
9 due to the weather, poor housing and a substantial amount
10 of low income customers (RCM/TREE 8)

11

12 All Electric Homes are Increasingly First Nation Homes
13 (2006 Load Forecast, p. 14)

14

15 most new homes in rural areas installed electric
16 water and space heat (2312)

17

18 many of the new all-electric homes are being built
19 in First Nation communities that do not have access
20 to natural gas (2312)

21

22 First Nation homes on reserve have a disproportionate
23 percentage of low income persons

24

25 disproportionate amount of low income persons

1 (1006)

2

3 A Low Income Context to Inverted Rates

4

5 as a consequence of the inverted rate proposal, those
 6 using 1500 Kwh a month (18,000 Kwh per year) on average
 7 will tend to see their rates rise more than average (3711)

8

9 22% of those earning less than than \$30,000 are consuming
 10 more than 18,000 kW.h annually (1002)

11

12 most of these are all electric customers (1002)

13

14 Residential rate increases over the past few years tend to
 15 effect those who consume more (Coalition 32)

16

17

18 Assumed Monthly	April 2004	March 2007	2008 (p)
19 Consumption(Kwh)			
20 800	100	108.7	111.2
21 1,000	100	109.3	112.1
22 1,200	100	109.7	112.7
23 1,500	100	110.2	113.4

24

25 The Complexity of Consumer Behaviour

1 Kuczek

2 It's a complex matter to predict and affect consumer
3 behaviour (Kuczek) (893)

4 Different Schools of Thought:

5 * neoclassical - armed with perfect behaviour in a
6 perfectly competitive market, consumers will tend to act
7 in a rational manner that maximizes their self interest;
8 (894 Kuczek)

9

10 * New Keynesian - we can't understand consumer behaviour
11 unless we understand deeper societal or contextual issues
12 such as poverty, inequality in information, inequality in
13 market power (895) Kuczek

14

15 In the real world - consumer behaviour does not perfectly
16 accord with consumer theory (896 - Kuczek)

17

18 To similar effect, Chernick

19 spoke of the Complexity of Human Behaviour (2926)

20

21 behaviour in theory and behaviour in practice may
22 not move in the same direction (2927)

23

24 candid discussion (Coalition Exhibits 33 - 35)

25

1 there's some people who basically only pay
2 attention to the size of the cheque (2936) -
3 Chernick

4
5 if these customers are on the budget, they
6 may miss the efficiency signal of inverted
7 rates (2938)

8
9 if all of your residential customers were
10 economists, you could do things very differently (2938)

11
12 Appropriate Price Signals do not necessarily achieve
13 efficiency

14
15 Chernick - many economic signals in terms of
16 energy use are difficult for consumers to respond
17 to without some assistance - there are a lot of
18 barriers (2929)

19
20 Dunsky - There are many barriers in the
21 marketplace that lead to very energy- inefficient
22 decisions and investment decisions in the market
23 (3656)

24
25 12 Barriers to Efficiency (Dunsky slide 4)

- 1 * Information and search costs
- 2 * Performance uncertainty
- 3 * Transaction and hassle costs
- 4 * Access to capital
- 5 * Organizational practice and customs
- 6 * Split or displaced incentives
- 7 * Unavailability of products and services
- 8 * Bounded rationality
- 9 * Hidden costs and benefits
- 10 * Aggregated attributes
- 11 * Average Cost Pricing
- 12 * Externalities
- 13
- 14 Price Signals, Energy Efficiency and Inelastic Demand
- 15
- 16 unfortunate no one asked Dunsky about elasticity of demand
- 17 in the context of residential, commercial and industrial
- 18 usage
- 19
- 20 Wiens
- 21
- 22 economic theory suggests that consumers' demand
- 23 for energy is less sensitive to price change than
- 24 the demand from other commodities (2358)
- 25

1 when one goes from the short term to the longer
2 term the elasticity numbers will go up

3

4 "But typically, the general consensus, the
5 conventional wisdom, is that they're still going to
6 be inelastic. You're still not going to get a
7 response to price that is, in terms of the quantity
8 demanded, that is as great as the change in price."

9 (2364)

10

11 Rand Corporation (2006) (see Coalition 31)

12

13 a) methodology

14

15 (30 year literature review) (state-level panel data on
16 residential and commercial electricity consumption and
17 residential natural gas consumption 48 contiguous US
18 states) (residential data 1977 to 2004) (13)

19

20 b) key conclusions

21

22 * the relationship between demand and price is small (xi)

23 * demand is relatively inelastic to price (xi)

24 * in the past 20 years, this relationship has not changed

25 significantly (xi)

1	Class (23)	Short Run Elasticity	Long Run Elasticity
2	res elec	-.24	-.32
3	com elec	-.21	-.97

4

5 * locations where particular energy uses are very valuable
6 such as air condition in southern states or winter heating
7 in northern states could have price elasticity smaller in
8 absolute magnitude because air conditioning and heating
9 are so so valuable during periods of extreme climate that
10 consumers are unwilling to change their use when prices
11 change (p. 7) (2437)

12

13 Household Electricity Demand Revisited, 2005 (Excerpt
14 Coalition 32), Reiss and White

15

16 extensive data representative sample of 1300 California
17 households (res), 1993 and 1997 data - study the likely
18 effects of controversial new tariff in California
19 following electricity supply crisis in 2000 - 2001

20

21 most households will alter their electricity consumption
22 very little in response to a price change (870)

23

24 a small fraction are energy demanders (1/8) and would
25 react with large changes

1 Not to say price signals are not important

2

3 while still relatively inelastic, commercial,
4 industrial more price elastic (Wiens) (2360)

5

6 and in particular large energy intensive
7 industries significantly higher elasticity (Wiens
8 2363)

9

10 although quite inelastic, residential consumer
11 recognize value of price signals -some residential
12 uses will have virtually zero while some will have
13 relatively higher usages (Wiens 2363)

14

15 but from an efficiency perspective price signals
16 far from a magic bullet

17

18 Coalition will argue - much more to be gained by
19 removing barriers - raising awareness - than by
20 dramatic price change

21

22 Not just another rate hearing

23

24 * Appear to be on the cusp of a major expansionary agenda
25 (\$13 or \$14 Billion)

1 * Push for expansion - comes at the same time - sobering
2 experience of Wuskwatim

3

4 dramatically higher costs

5

6 impact declining US dollar

7

8 significant downward revision to Internal

9 Rate of Return (Hydro 56)

10

11 * Push for expansion - comes at the same time -
12 significant expenditures new building - Wuskwatim are
13 placing upwards pressure on rates

14

15 * Causing residential consumers to look with perhaps a
16 far more agnostic/jaundiced eye than in 2002/03 on major
17 capital projects aimed at the export market

18

19 * Real risk that in the rush to expand - in the rush to
20 do glamorous big things - we will overlook - the less
21 glamorous but just as important other things

22

23 addressing multiple barriers to efficiency

24

25 ensuring that all Manitobans including

1 tenants and low income persons have the
2 opportunity to fully benefit from energy
3 efficiency programming

4
5 bringing more discipline to O, M and A
6 expenditures

7
8 more rigour to the corporation's approach
9 to sustaining capital expenditures

10

11 * Important to get the fundamentals in place before we
12 address complex questions posed by massive capital
13 expansion focused in large degree on export market

14

15 Core Issues

16

17 * Has the Corporation met its onus of justifying the rate
18 increase sought?

19

20 Is the rate increase too much? too little?
21 or just right?

22

23 * What is the experience of Wuskwatim? Are there lessons
24 to be learned as we look to a decade of major capital
25 expansion?

1 * Can we improve the regulatory process in order to
2 assist intervenors, the regulator, the utility and
3 consumers as a whole? With reference to the rate setting
4 process, should we continue to rely on the Corporation's
5 current debt/equity target?

6

7 * Is the Corporation getting optimal bang for the buck
8 when it comes to energy efficiency? What is the optimal
9 way to reduce barriers to energy efficiency for all
10 consumers including tenants and low income people? Has
11 the time come for inverted rates for residential
12 customers?

13

14 * How do we best achieve fairness among rate payers?
15 Does the subject of fairness include consideration of how
16 the consumption activities of one class of consumers
17 affect the bills of all consumers? Are differential rate
18 increases justified in the current proceeding?

19 The Public Policy Context

20

21 Other key contextual elements

22

23 * legislative objectives

24 * statements by Minister

25 * promises or commitments by Hydro

1 The Manitoba Hydro Act

2

3 2 The purposes and objects of this Act are to provide
4 for the continuance of a supply of power adequate for the
5 needs of the province, and to engage in and to promote
6 economy and efficiency in the development, generation,
7 transmission, distribution, supply and end-use of power
8 ...

9

10 The Minister's Letter of February 19, 2008 (MIPUG 12)

11

12 Manitoba Hydro's proposed approach is intended to balance
13 the need to support economic growth in Manitoba along
14 with minimizing upward rate pressure on all Manitoba
15 Hydro customers.

16

17 I share Manitoba Hydro's concern that increased
18 concentrated consumption of low priced energy may
19 displace higher value export sales opportunities and
20 thereby lead to higher bills for all domestic
21 (residential, commercial and industrial) customers as
22 well as inhibit global greenhouse gas emission
23 reductions.

24

25 I trust that Manitoba Hydro has explained that existing

1 loads will be completely unaffected, and continue to
2 enjoy among the lowest electricity rates in North America

3

4 see Coalition 38, MH 75

5

6 CEC Proceedings Regarding Wuskwatim

7

8 * Hydro

9

10 Temporary increases to the Corporation's
11 debt/equity ratio and decreases to the level of
12 interest coverage which may occur in the early
13 years of the project are judged to be manageable
14 without impacting the Corporation's financial
15 stability or requiring offsetting increases to
16 domestic rates. (3430)

17

18 * The CEC

19

20 The Commission's support for the project is
21 contingent on Manitoba Hydro being able to
22 maintain its commitment that domestic ratepayers
23 will not experience rate increases as a result of
24 the projects (3431)

25

1 The New Corporate Head Office

2

3 * Centra

4

5 Centra estimated that overall cost impact of the new head
6 office would be \$21 million per annum, to be offset by
7 lease payment savings of \$5 million and annual
8 productivity savings projected to be in the range of \$20
9 million annually (Board Order 99/07, 40)

10

11 The Merits of the Rate Increase

12

13 Has the Corporation met its onus of justifying the rate
14 increase sought?

15

16 Is the rate increase too much? too little?
17 or just right?

18

19 The Regulator's Dilemma - Reconciling Competing Pulls on
20 the Revenue Requirement (Coalition 39)

21

22 providing less than sought after rate increases may
23 potentially delay achievement of enhanced reserves (3420)

24

25 regulator also may be concerned about:

1 the impact on rates of pending major capital
2 expenditures

3

4 the implementation of international accounting
5 standards and its affect on rates (see 818 - 822,
6 1779, 3211 - 3214)

7

8

9 But providing the sought after rate increase or more than
10 sought after rate increases may be seen as implicitly
11 endorsing excessive expenditures (3420)

12

13 simple continued result of higher domestic rate levels
14 doesn't provide us with any real assurance of actual
15 improvements in retained earnings (3421)

16

17 Coalition's perspective

18

19 cannot effectively admonish for expenses while
20 allowing Corporation to ramp up ate increases at
21 or above requested amount

22

23 Coalition's recommendation in this proceeding

24

25 - identify concern with expenditure control

1 - reinforce that concern through less than sought after
2 rate increase

3

4 Not a rejection of the legitimacy of concerns about

5

6 the impact on rates of pending major capital
7 expenditures

8

9 (but impact will not be in IFF for 2008/09)

10 (Harper, 3638)

11

12 the implementation of international accounting
13 standards (see pages 818 - 822, 1779, 3211 - 3214)

14

15 (IFRS becomes the new GAAP after January 1, 2001)

16

17 (May have significant impact on rates)

18

19 (Corporation is researching issue)

20

21 (Corporation's position - premature to reach any
22 conclusions about impact of IFRS on Hydro's
23 financial statements)

24

25 In the long run, only effective way to send a signal

1 about cost control is through revenue requirement

2

3 This is the year to do it given extra \$35 M due to

4 positive results 07/08 (3622)

5

6 Still leaves option for the Corporation to come in next

7 year 2009/10

8

9 demonstrate improvement in cost control

10

11 seek increase in revenue requirement once:

12

13 i) as new capital expenses hit rate base

14 ii) more certainty about impact IFRS

15

16 In Analyzing the Merits of the Rate Increase

17

18 Key Questions:

19

20 * Does O, M and A matter?

21

22 * Has Hydro done what it said it would do to improve

23 corporate financial strength?

24

25 * In terms of managing alleged key cost drivers such as

1 aging infrastructure, has Hydro demonstrated that it
2 employs appropriate tools at the Corporate level?

3

4 * Is Hydro able to document the effect on the 2008/09 OM
5 & A of alleged key cost drivers such as aging
6 infrastructure?

7

8 * In non GRA years, has Hydro met its O, M and A
9 financial targets as set out in the strategic plan? Does
10 the strategic plan matter?

11

12 * Has Hydro established the reasonableness of its rate
13 increase for the period in question?

14

15 Does O, M and A Matter?

16

17 OM and A is one of the Big Two

18

19 expenses electric \$1.45 B (1080)

20

21 slightly over half finance and O, M and A (1080-81)

22

23 i) finance expense - \$426 M (1080)

24 ii) O, M and A - \$360 M (1080)

25

1 Watching the pennies (Harper)

2

3 * not administrivia - 3637 (not administriva to
4 consumers)

5

6 * one has to watch the pennies and the dollars will look
7 after themselves (3638)

8

9

10 Divergence between forecasts and results undermines
11 achievement of financial targets (Bowman)

12

13 * systematic increases and OM&A spending have been a
14 consistent and compounding reason underlying the failure
15 to achieve the debt/equity target (3394-5) (Bowman)

16

17 * divergence between forecast and results and upward
18 trend in OM&A costs since about 2003/04 (3398)

19

20 IFF05-1

21

22 forecast cost per customers 08/09 \$338 (3393)

23

24 IFF07-1

25

1 forecast cost per customers 08/09 \$360 (3393)

2

3 * negative trend threatens to undermine achievement of
4 financial targets

5

6 Has Hydro done what it said it would do to improve
7 corporate financial strength?

8

9 Harper concerns about productivity initiatives that
10 Hydro says it is starting but not following through on
11 (3637) (3640)

12

13 2005/06 CSP

14

15 one of four strategies was to benchmark key
16 corporate processes against other recognized
17 leaders (1082)

18

19 but

20

21 No formal process benchmarking has been undertaken
22 on a corporate level (1082) (Coalition II-43
23 a)

24

25 2007/08 CSP

1 Develop corporate and business unit performance
2 measures (1083)

3

4 but

5

6 With respect to a specific strategy to develop
7 Corporate and business unit performance measures,
8 the terms of reference and/or work plans have not
9 yet been developed? (1083) (Coalition I-8)

10

11 It is a matter of priorities

12

13 Mr. Warden (pp. 1084)

14

15 "It is a matter of priorities."

16

17 Exactly the Concern of the Coalition

18

19 The Head Office and the Disappearing Productivity

20 Dividend

21

22 Centra

23

24 Centra estimated that overall cost impact of the new head
25 office would be \$21 million per annum, to be offset by

1 lease payment savings of \$5 million and annual
2 productivity savings projected to be in the range of \$20
3 million annually (Board Order 99/07, 40)

4

5 Hydro on the head office

6

7 \$22.8 M is incremental for first year alone (1184)

8

9

10 Annualized impact is \$18.75 million (1184)

11

12 Harper on the Head Office

13

14 -productivity attributed to head office (3641)
15 included reduction of roughly 200 hundred staff -
16 now that number is well below a hundred (3641)

17

18

19 there appears to be no increase assumed in
20 productivity savings in the short term due to the
21 head office over and above what has historically
22 been achieved (3641)

23

24 not the 10% originally talked about - not the 2 to
25 3% identified in earlier studies (3641)

1 I don't have an estimate (Hydro)

2

3 "I don't have an estimate no"

4 Hydro:

5

6 no estimate of the number of positions
7 that are not being filled in anticipation of
8 synergies with the new building (1165)

9

10 not able to provide a reliable estimate in
11 terms of the EFTs for the 2007/08 year that
12 might be held off because of the new
13 building (1168)

14

15 unable to provide a reliable estimate of
16 the number of EFTs that will not have to be
17 filled as a result of the new building
18 (1168)

19

20 No Confidence in productivity savings of \$20 million

21

22 To make the new building totally cost-neutral, if
23 we're going to achieve these savings solely
24 through - reduction in numbers of employees, it
25 would be close to a 10 percent productivity

1 increase (1169) - 200 employees

2

3 there is some doubt in your mind that you will be
4 able to achieve these savings (1171)

5

6 "I really can't say with confidence that we will"
7 (1171)

8

9

10 What savings does hydro now claim

11

12 the forecast 1 percent productivity saving related
13 to the labour cost component of OM&A for 2008/09
14 implicitly includes the new headquarters. (1189)

15

16 apart from lease costs and the reality that OM&A
17 productivity is built into the 2008/098 forecast,
18 there are no other downward revisions to OM&A
19 costs that you can relate to the new headquarters
20 (1192)

21

22 there are no other downward revisions - in facts
23 there may be a temporary increase in costs -
24 there could . . . be some increases in costs which
25 we have not factored into the forecast (1193)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

The total facilities related savings expected as a result of the move to the new head office is \$7 million. (includes \$5.3 mil to landlords \$3.6 m lease, \$0.9 M taxes, 0.8 M common costs) (the balance represents internally incurred costs or payments to contractors and others) (MH Exhibit 37)

The Logical Conclusion

conservative assumption

annualized cost impact is \$18.75 million (1184)

alleged facilities related savings - \$7 million

alleged productivity savings - MH states that it is holding back filling some positions in expectation of the move to the new head office. Of the 200 vacancies that currently exist, MH states that 125-150 are

1 due to difficulty in filling positions.
2 This would suggest that no more than 75 are
3 being held back due to the new head office
4 and the number could be lower (Ex. #36).

5
6 At \$80,000 per employees (labour and
7 benefits per EFT) (TR 1175) this would
8 translate into a reduction of no more than
9 \$6 M (at \$1000,000 per employee (all in)
10 this would translate into a reduction of no
11 more than \$7.5 M)

12
13 Conservatively the annualized incremental
14 cost of the New Headquarters to ratepayers would appear
15 to be at least \$4.25 M annually

16
17
$$\$18.75 - (\$7 \text{ m}) - (\$7.5\text{M}) = \$4.25 \text{ M}$$

18
19 In terms of managing alleged key cost drivers such as
20 aging infrastructures, has Hydro demonstrated that it
21 employs appropriate tools at the Corporate level?

22
23 Common Industry Practices

24
25 * Asset Condition Assessments (3625)

1 common place in Ontario regulatory experience -
2 big and small utilities (3628)

3

4 common place in the industry - see the Best
5 Practices Exhibit Coalition (12 or 13 - check)

6

7 * what they are

8

9 snapshot of utility's assets noting degree of
10 degradation and need for rehabilitation and
11 replacement (frequently done by external party in
12 association with utility) (3625)

13

14 external party helps utility pull together on a
15 systematic and organized basis into an overall
16 comprehensive assessment (3225-26)

17

18 allows work to be prioritized across the entire
19 asset base (3226)

20

21 i.e. Hydro One with the assistance of an
22 independent third party prepares asset
23 condition assessments that are reviewed by
24 its regulator (1144)

25

1 High Value/High Risk

2

3 Moderate Value/High Risk

4

5 Low Value/Low Risk

6

7 also allows one to identify areas where there are
8 information gaps (3227)

9

10 * how regulators use them

11

12 requires utility to demonstrate it has a
13 sound planning process (3630)

14

15 substantiates need year over year

16

17 * done every 2 to 3 years

18

19 allows regulator to get a sense of whether the
20 overall state of the nation is improving or
21 getting worse (3627)

22

23 How Hydro Addresses Aging Infrastructure (1135 - 1152)

24

25 Inferences which may be drawn

1 no independent review within the last four
2 year of industry best practices with regard
3 to asset condition assessments (1151/1152)

4
5 in terms of managing aging infrastructure -
6 a strategy document for the overall
7 operation does not exist (1135/36, Coalition
8 I-36 c)

9
10 priorities and budgets are set at the
11 divisional level then reviewed at a highly
12 summarized level at the executive level
13 (1149 - 1150)

14
15 no independent consultants to assist in the
16 process or to review the process (1151)

17
18 no formal company wide asset condition
19 assessment provided (1146, Coalition II-52
20 a)

21
22 no company wide asset condition assessment
23 exists (1147)

24
25 there's no overarching corporate strategy

1 documents which pulls together the asset
2 condition assessments from each department
3 in terms of their ranking and value (1151)

4

5 Not all of our systems are state of the Art (Warden) (p.
6 1154)

7

8 AMPS - main tool used to plan and schedule maintenance tasks and
9 inspections

10

11 - less than state of the art - (pp. 1153)

12

13 CAMELOT - used to record and prioritize portfolio
14 of potential projects in the area of power supply
15 due for replacement (1154)

16

17 The Intergroup Comments

18

19 * concern no consistent top-down test in place for
20 managing replacements and incremental expansions to the
21 existing system (3407 -08)

22

23 * not satisfied with how Hydro employs capital coverage
24 ratio (3409)

25

1 * may wish to consider

2

3 BC sustaining capital ratio (3409)

4

5 NFLD depreciation balance test (3410)

6

7 Is Hydro able to document the effect on the 2008/09 OM &

8 A of alleged key cost drivers such as aging

9 infrastructure?

10

11 Harper's General Comments

12

13 * Hydro has made general references to cost drivers such
14 as aging assets and the need to meet increased customer
15 demand - however, no clear link has been provided between
16 these cost drivers and the changes in costs (Harper -
17 3632)

18

19 * I hear every utility say their assets are aging - their
20 assets have been aging since the year they were first
21 built (3644)

22

23 * Have to establish what's unique about this particular
24 period in terms of the state of the assets) (need to do
25 more to establish work requirements than just say you're

1 older) (3644)

2

3 Hydro agrees that age by itself is certainly not the only
4 factor

5

6 Derksen (1117)

7

8 "Age, by itself, is certainly not the only factor
9 in spending requirements"

10

11 look at:

12

13 customer requests and growth patterns

14

15 the assets' condition

16

17 the assets' performance (including failure rate)

18

19 employee and public safety

20

21 manufacturers recommendations

22

23 balancing issues related to costs and revenue

24

25 But where's the substantiation

1 Attempts to assist Manitoba Hydro?

2

3 Attempt 1

4

5 Coalition I-36

6

7 (1119) the segregation of operating and
8 administrative expenses associated with
9 maintaining and sustaining existing assets
10 is not readily available

11

12 Attempt 2

13

14 PUB II-28 OM&A cost and staff EFT increases by
15 rehabilitation requirements and ongoing OM&A

16

17 (1120) hydro not able to divide the
18 information between rehabilitation and
19 ongoing OM&A

20

21 Attempt 3

22

23 Cross pages 1121 - Aging Infrastructure as a Cost
24 Driver (PUB I-20)

25

1 suggestion aging infrastructure is causing
2 pressure on staffing levels (1114)

3

4 3 major areas for staffing increases

5

6 power supply, transmission and
7 distribution and customer service and
8 marketing (1114 approx)

9

10 BUT

11

12 2008/09 Increases of EFTs that are Required to
13 Meet Operating and Maintenance Requirements and
14 are charged to O&A Expense (Exhibit 35)

15

16 Division 2008/09 Forecast

17

18 Power Supply 4

19 Transmission & Distribution 2

20 Customer Service and Marketing 2

21

22 * If I was looking and focusing exclusively on the
23 transition from 07/08 til 08/09, I wouldn't see a lot of
24 growth in EFTS relating to aging infrastructure in that
25 particular year (p. 1131 Derksen)

1 We're not seeing a lot of growth in 08/09 with
2 regard to transmission and distribution (1132
3 Derksen)

4
5 * note - may explain some cost pressures not an
6 explanation of deviations from forecast (it is not
7 something that suddenly erupted for Hydro or indeed for
8 any other utility) (i.e. 1115 - PUB II-28) most North
9 American utility assets have ages in excess of 30 years
10 (1115)

11
12 In non GRA years, has Hydro met its financial targets in
13 terms of O, M and A?

14
15 OM and A Per Customer
16 (Exhibit Coalition 10)

17
18

19 Year	CSP Target	Actual	Actual Higher or Lower
20 2004/05	\$584	\$\$591	actual higher than target
21 2005/06	\$600	\$609	actual higher than target
22 2006/07	\$612	\$626	actual higher than target

23
24 So what if the strategic target plans are not met? Does
25 the Corporate Strategic Plan Matter?

1 Warden - re corporate strategic plan

2

3 serves as broad planning outline and as a means
4 for the Corporation to evaluate itself against
5 the key target measures (900)

6

7 sets out key goals of the Corporation (899)

8

9 with regard to each goal, it identifies
10 measures and associated targets by which it
11 will determine its progress towards achieving
12 those goals (899)

13

14 identifies measures or strategies by which it
15 will work towards achieving those targets (900)

16

17 to the extent the corporation does not reach
18 its target it may wish to reflect upon its
19 strategies and execution of those strategies in
20 order to improve (900)

21

22 Has Hydro established the reasonableness of its rate
23 increase for the period in question?

24

25 Harper says no

1 - he recommends the board should approve an annual
2 increase in OM&A for 06/07 through 08/09 of 3.0 percent
3 rather than 3.9 percent

4

5 - OM&A higher than in previous forecasts for same period
6 (3633) this is the highest rate of growth we've seen -
7 however - there's no substantiation for the increased
8 spending and no unique or one-off programs

9

10 - 3 percent is consistent with targets Hydro has set for
11 itself in its own corporate strategic plan (3634)

12

13 - historic growth in OM & A of 4% should be expected to
14 decline given that customer growth is projected to
15 decline as are wage and salary increases per FTE
16 according to the Hydro forecasts (3634)

17

18 - Harper recommends a reduction in the 2008/09 revenue
19 requirement from 2.9% to 1.9% (3636)

20

21 The Coalition agrees with Mr. Harper

22

23 * Proposed Spending Levels Exceed Corporate Targets

24

25 See (ECS Evidence - pages 19-20) (PUB/MH II- 7

1 d)), (PUB/MH I-23 d)

2

3 * Current projection for OM&A increases for 2007-2009
4 higher than in any previous IFF

5

6 The increase in OM&A forecast for 2007-2009 is higher in
7 the current IFF07-1 than in any previous IFF. See ECS
8 Evidence Table 13, page 16

9

10 * The fundamentals don't support a 3.9% per annum
11 increase in OM&A

12

13 During the 2003-2007 period Electric Operations OM&A grew
14 by 4% per annum (ECS Evidence, page 15).

15

16 However, during this period customer growth was 1% per
17 annum and labour costs per FTE were increasing at 3.8%
18 per annum (ECS Evidence pages 14-15)

19

20 During the 2007-2009 period, the fundamental drivers have
21 changed:

22

23 Customer growth has declined to 0.6% per annum

24 Labour cost / FTE growth has decline to 2.6% per annum

25

1 * Based on these changes in the underlying fundamentals
2 one would expect the overall growth in OM&A to decrease:

3

4 The slower customer growth should decrease OM&A growth by
5 0.3% (i.e. 0.9 minus 0.6)

6

7 The slower cost of labour growth should decrease OM&A
8 growth by 0.8% (i.e., 70 % of 3.8-2.6 - where the 70%
9 reflects the fact that 70% of OM&A is labour costs)

10

11 This suggests a growth rate that is lower by more than 1%
12 -- absent other offsetting factors

13

14 * In terms of offsetting factors - MH was asked if there
15 were any special or non-recurring maintenance programs of
16 a material size during this period and said NO
17 (COALITION/MH II 23 a))

18

19 * MH has suggested that there are significant cost
20 pressures from other non-labour sources. However, as
21 seen in their Rebuttal Evidence these cost pressures are
22 not new and are also reflected in the 4% per annum
23 historic growth value (Rebuttal, page 3)

24

25 * COALITION Exhibit #40 shows that a 3% per annum

1 increase is consistent with the underlying fundamentals.

2

3 Recommendation

4

5 approve interim 2.25 for 07/08

6

7 approve 1.9% 08/09

8

9 In the long run, only effective way to send a signal
10 about cost control is through revenue requirement

11

12 This is the year to do it given extra \$35 M due to
13 positive results 07/08 (3622)

14

15 Still leaves option for the Corporation to come in next
16 year 2009/10

17

18 demonstrate improvement in cost control

19

20 seek increase in revenue requirement once:

21

22 as new capital expenses hit rate base - more certainty
23 about impact IFRS

24 Anticipating Hydro's Rebuttal on O, M and A

25

1 Labour Costs Backgrounder

2

3 * Labour cost is the key driver of O, M and A

4

5 75% of O, M and A is labour costs (1187)

6

7 * Productivity Allowance of one per cent per year applies
8 only to labour costs (1187)

9

10 Anticipated Hydro Rebuttal

11

12 * Manitoba Hydro may introduce doomsday scenarios about
13 labour costs drawn from newspaper headline but such
14 scenarios are not consistent with its own evidence

15

16 * What do we know about labour costs in recent years?

17

18 * Labour Costs are rising faster than inflation but not
19 at a dramatic pace

20

21 Sticker Shock Excerpts

22

23 labour costs generally have tracked inflation
24 rates but shortages in skilled workers have
25 driven costs higher for utility equipment and

1 construction services . . . (57)

2

3 labour cost increases - while less dramatic
4 than those experienced by commodities -
5 nevertheless have exceed the general inflation
6 rates (60)

7

8

9 While labour costs have not risen dramatically
10 in recent years, utilities increasingly are
11 concerned about an emerging gap between demand
12 and supply of skilled construction labour (60)

13

14 * Hydro's labour costs/fte have risen faster than
15 inflation and are projected to rise slightly faster than
16 inflation

17

18 Coalition 40 Excerpt

19

20 (2003 - 2007)

21

22 labour costs/fte grew about 3.8% (more than
23 inflation)

24

25 number of customers 0.9%

1 projection 2007 - 09

2

3 2.6%/fte (projected by Hydro to be lower than
4 2003 - 2007)

5 number of customers 0.6% (projected by Hydro to
6 be lower)

7

8 * True benchmarking

9

10 We would interpret benchmarking to be a more in
11 depth review of processes to ensure that when the
12 benchmarking exercise is taking place that the
13 functions - the processes are truly comparable
14 (1087)

15

16 * Hydro may offer anecdotal evidence of its labour rates
17 as compared to others but what does a true benchmarking
18 study tell us about certain Hydro's salaries as compared
19 to other utilities?

20

21

22 Position Minimum(percentile) Maximum (percentile)

23

24 Field Operations Manager median - 75 percentile

25 median - 75 percentile

1 Design Engineer median - 75 percentile
2 median - 75 percentile

3
4 Powerline Maintainer 25th percentile - median
5 25th percentile - median

6
7
8 * Power Services Survey Results tell us very little
9 because they are not true benchmarking studies

10
11 highly aggregated

12
13 no segregation by job

14
15 no minimum for positions

16
17 no maximum

18
19 does not tell us anything about seniority - how
20 long at job (i.e. what percentages are at minimum
21 and maximum)

22
23 * Hydro may attempt to rely upon highly aggregated and
24 simplistic comparisons drawn from the annual reports but
25 that is not true cost benchmarking and Manitoba Hydro

1 admits as such

2

3 Some Examples of the Interaction of Government Policy and

4 MB Hydro

5

6 * Tremendous achievements:

7

8 rural interconnection

9 remote community interconnection (North West

10 Transmission)

11 economic development

12 significant contribution to provincial bottom line

13 low income energy efficiency

14

15 * Some tragic and ongoing costs

16

17 CRD/Northern Flood Agreements

18

19 * ongoing impacts on revenue requirement and/or financial

20 indicators

21

22 * new Hydro building

23

24 significant annual incremental cost at least \$4.25 M

25

1 * Bi-Pole III - east side versus west side decision

2

3 PUB/MH I-4 f) indicates that

4 the capital cost of the West side route is \$410
5 million higher

6 The present value (2017 \$) of the increased line
7 losses associated with the Western route is \$107 M
8 (with existing generation) and \$181 M (with
9 Conawapa)

10

11 * Wuskwatim

12

13 PUB/MH I-72 a) provides the history of the in-service
14 capital costs for Wuskwatim

15 CEC filing (2009/2010 I/S) = \$901 M

16 IFF07-1 (2011.12 I/S) = \$1,595M

17

18 MH undertaking #31 shows an increase in project costs
19 (expressed in \$ 2002) from \$713 M for the CEC to \$1,129 M
20 for IFF07-1.

21

22 The response to PB/MH II-3 b) shows that net income is
23 negative until 2017.

24

25 This suggests that as well as putting pressure on MH's

1 D/E ratio - the Wuskwatim will increase the RR until
2 after 2017,

3

4 * Closing of Brandon Coal Plant except for emergency use

5

6 Appendix 22, page 8 states that if Brandon is retired
7 prematurely (i.e., prior to 2019) the annual reduction in
8 net income would be \$20 M. Restrictions on operations
9 (e.g. essential operations only) would reduce net income
10 by \$10 M annually

11

12 MIPUG/MH I- 5 c) states that if Brandon is retired - the
13 impact of a major 5-year drought increases by \$150 M or
14 more, For the 2003.04 drought period, the operation of
15 Brandon saved in the order of \$50 M.

16

17 * proposed new major hydro-electric generating stations
18 (when - impact on debt/equity);

19

20 The most recent Power Resource plan (Appendix 45) shows:

21 o Wuskwatim (200 MW) in-service in 2012/13

22 o Conawapa (1300 MW) in-service in 2021/22

23

24 The need date for new generation to meet domestic load
25 and committed exports is 2020/21 (but it is anticipated

1 that Conawapa can not come into service earlier (Appendix
2 45, page 11).

3

4 The new sale to Wisconsin starts in 2018 and will require
5 the development of new hydro generation (TR 3183-3184).

6 More than just Conawapa is needed to service the
7 contracts with both Wisconsin and Minnesota (TR 3185)

8

9 On page 25 of the Harper Evidence it was stated that the
10 \$1.5 B on spending on new Generation and Transmission was
11 impacting on the D/E ratio by 5% in 2008/09. The
12 spending on Wuskwatim to this point is \$590 M -
13 suggesting that its impact is between 1-> 2 percentage
14 points.

15

16 * uniform rates

17

18 In the PCOSS for 2007/08 the cost of uniform rates is set
19 at \$17 M (Appendix 11.1, page 11)

20

21 * special dividend

22

23 Special payments to the province totaled \$204 M in 2003
24 and 2004 (PUB/MH I-49 a))

25

1 Int he 2004 GRA MH provided info on the impact of the
2 special payment on the D/E ratio (MIPUG/MH I-8 d) versus
3 Appendix 4.1). For 2003/04 the impact was 3 percentage
4 points (i.e. 82% without vs. 85% with). By 2008/09 the
5 impact was still 3 percentage points (i.e. 84% vs. 87%)

6

7 * water rental fees/debt guarantee fees/large corporation
8 capital tax

9 These payments are all summarized in PUB/MH I-49 a). The
10 total actual in 2006/07 was \$219 M. The forecast value
11 for 2008/09 is \$223 M.

12

13 * low income energy efficiency/bill 11 impacts - what are
14 the costs projected for 08/09 (how much from Bill 11 -
15 any additional from elsewhere)

16

17 MIPUG/MH II-1 f) reports annual amortization of Bill 11
18 costs of \$2 M in 2008 and \$4 M in 2008/09.

19

20 Significant Impact on Hydro's Bottom line

21

22 What is the experience of Wuskwatim? Are there lessons
23 to be learned as we look to a decade of major capital
24 expansion?

25

1 CEC Proceedings Regarding Wuskwatim

2

3 * Hydro

4

5 Temporary increases to the Corporation's
6 debt/equity ratio and decreases to the level of
7 interest coverage which may occur in the early
8 years of the project are judged to be manageable
9 without impact the Corporation's financial
10 stability or requiring offsetting increases to
11 domestic rates. (3430)

12

13 * The CEC

14

15 The Commission's support for the project is
16 contingent on Manitoba Hydro being able to
17 maintain its commitment that domestic ratepayers
18 will not experience rate increases as a result of
19 the projects (3431)

20

21 The Analysts' Perspectives

22

23 Harper

24

25 capital expenditure - the increased debt is

1 placing pressure on today's rates - Wuskwatim -
2 its probably one of the contributing factors to
3 increased rates (3647)

4

5 Bowman

6

7 We're effectively coming close to raising rates
8 for Wuskwatim (3431)

9

10

11 Wuskwatim

12

13 Revised ISD

14

15 \$1.3 billion generation \$1.6 billion including
16 transmission (943/944)

17

18

19 Restatement of Current Forecast of Wuskwatim Gen
20 and Trans to Enable Comparison with Original
21 Forecast (MH 29)

22

23 (in \$millions)

24

25

1	Wuskwatim GS 2009/10	ISD Wuskwatim GS 2011/12	Dif
2	from CEC	ISD from IFF07-1	
3	600	907	307
4			
5	Wuskwatim Trans 2009/10	ISD Wuskwatim Trans 2011/12	Dif
6	from CEC	ISD from IFF07-1	
7	113	222	110
8			
9			
10			
11	Revised Internal Rate of Return of only 6.5% (MH Exhibit		
12	55)		
13			
14	If the capital cost of the Wuskwatim project in 2002		
15	dollars is substituted into the analysis provided in the		
16	April 2003 submission to the CEC, the resulting		
17	mathematical calculation is a number of 7.8% when sunk		
18	costs are excluded and a number of 6.5% when sunk costs		
19	are included.		
20			
21	The Revised Internal Rate of Return is roughly equivalent		
22	to the Corporation's cost of debt		
23			
24	p. 941 Warden Average cost of debt between now and the		
25	in-service date of 2012 - 7 percent (subsequently revised		

1 to 6.5%)

2

3 The Need for Wuskwatim

4

5 Surminski it "is the contracts that add to the demand
6 (that) cause the deficits in the long term, if that's
7 what you're getting at" (948)

8

9 its the combination of domestic load with your firm
10 contracts that leaves you requiring Wuskwatim so that
11 you're in a surplus position rather than a deficit
12 position (948)

13

14 Capital Program Management (957)

15

16 Re: Wuskwatim

17

18 evidence at the CEC hearing was that the flat
19 slope of the cost estimate line indicates that the
20 estimate is very tight within a 90 percent
21 confidence that the estimate will be between 523
22 million and 620 million in terms of generation
23 (959)

24

25 capital process - we go through a rigorous capital

1 review process. Its reviewed at a number of
2 different levels within the organization before it
3 makes its way into the capital expenditure
4 forecast. (961)

5
6 We have not had an independent review of best
7 practices in terms of capital expenditure
8 forecasting and management in recent years (961)

9
10 Deloitte and Touche study (Coalition 38) - way
11 back in 2002

12
13 Recommendation

14
15 * Independent Review of Capital Expenditure - major
16 projects and O, M and A (Forecast and Management Best
17 Practices)

18
19 How can we improve the regulatory process in order to
20 assist intervenors, the regulator, the utility and
21 consumers as a whole? With reference to the rate setting
22 process, should we continue to rely on the Corporation's
23 current debt/equity target?

24
25 O, M, A

1 * Harper Possible Approaches to Testing

2

3 i) address changes in actual elements of O, M and A

4

5 ii) Envelope Basis using key drivers such as customer
6 counts - variances would then be explained on the basis
7 of unique or one-off requirements (3623)

8 iii) benchmark costs against utilities with similar
9 characteristics (3624)

10

11 simplistic example Appendix 12.12

12

13 more Detailed examples Coalition Exhibits 8 and
14 9

15

16 iv) review how utility's spending plans are
17 developed and prioritized (3624)

18

19 However, insufficient information on the record to
20 use approaches 1, 2 and 4 (3631)

21

22 its not particularly informative to say cost of
23 increase due to operational requirement or
24 additional FTS (3631)

25

1 benchmarking results used by Hydro are "fairly
2 simplistic" (3632)

3

4 hydro has made general references to cost drivers
5 such as aging assets and the need to meet
6 increased customer demand - however, no clear link
7 has been provided between these cost drivers and
8 the changes in costs (Harper - 3632)

9

10 * Harper Recommendations

11

12

13 * Employment of Asset Condition Assessments

14

15 * Improve Presentation to Regulator of OM&A Budget (3642
16 - 3643)

17

18 Management of Debt Portfolio

19

20 floating rate debt - subject to change on a periodic
21 basis

22

23 a) Currently

24

25 floating rate debt about 20 percent of

1 portfolio)/long term fixed rate debt 80 percent
2 (1220)

3

4 b) The Policy - Original Response

5

6 Coalition I-85 a)

7

8 policy limit to no more than 30% of total debt
9 (1220)

10

11 typically manages to within 15 - 25% of total debt
12 (target guidelines) (1221)

13

14 Is there a Board Minute re 30 percent maximum? - yes
15 going back more than 20 years (1234)

16

17 We have not found it to be an issue that requires Board
18 attention so the Board has not been asked to look at that
19 for a number of years (1236)

20

21 The target guidelines 15% - 25% go back more than 20
22 years (1238)

23

24 Whether the Board has specifically approved that, I
25 haven't reviewed it for some time so I would have to

1 confirm that.

2

3 Other than the previously approved Board approved

4 document there's no other document (1239)

5

6 c) The Tradeoff

7

8 floating rate debt - provides economic benefits (1221)

9

10 short term interest rates are lower than long
11 term interest rates in a typical upward sloping
12 yield curve (1222)

13

14 Hydro - if you go to 5 percent floating - giving
15 up too much in terms of economic benefit (1233)

16

17 fixed long term debt (stability) (1222)

18

19 Hydro - if you go to 31% fixed giving up too
20 much in terms stability and risk

21

22 d) The Literature

23

24 article cited by Corporation in its rebuttal

25

1 Is there an optimal Mix of Fixed and Floating Rate
2 Debt (1225)

3

4 studied ten year period which Mr. Warden claims is
5 too short

6

7 100% floating - lower interest costs but quarterly
8 earnings more variable (1226)

9

10 100% fixed - interest costs highest but with considerably
11 lower variability than 100% floating (1227)

12

13 cases between the 100 percent endpoint where interest
14 cost lower than 100% fixed with lower earnings volatility
15 as well - 69/31 (1229) (see also 40/60)

16

17 key point

18

19 while literature suggests floating greater economic
20 benefit

21

22 literature does not suggest that excessive risk averse
23 behaviour necessarily leads to the lowest level of risk

24

25 69/31 less risk than 100/0 - also better return

1 40/60 less risk than 100/0 - also better return

2

3 d) The Significance

4

5 expenses electric \$1.45 B (1080)

6

7 finance expense - \$426 M (1080)

8

9 Manitoba Hydro currently holds in excess of \$7 billion in
10 debt (1244)

11

12 even applying current policy, range of 15 to 25 percent -
13 of total debt of \$7 billion - 700 M potential to flip
14 between floating and fixed (1237)

15

16 if Manitoba Hydro reduces its interests costs by a mere
17 five basis points that would be a saving of \$3.5 million
18 annually (1245)

19

20 forecast to 2018 short term rates tending to be lower
21 than long term rates through to 2018 (Coalition II-77 c)

22

23 e) The Concerns

24

25 i) No Board Policy can be found

1 ii) Policy to the Extent it exists - dates back to 70s

2

3 iii) No recent independent review - (1243) We have not
4 conducted an independent review - There's been no
5 independent review of Manitoba Hydro's debt optimization
6 approach strategy in the last five years (1244)

7

8 iv) Consistently managing towards the bottom of range -
9 (Coalition I-85 b) - 13 quarters reviewed Hydro below the
10 mid-point 12 times above the mid-point 1 time (1242)

11

12 v) Risk of significant dollars being left on the table
13 for no appreciable gain in stability

14

15 vi) May be foregoing significant returns for false
16 premise of reduced risk

17

18 vii) BC Hydro runs higher floating to fixed ratio - range
19 26 percent to 46 percent floating rate (1243)

20

21 viii) MPI example (1990s all bonds/no equity) (2000s-
22 concern insufficient diversification in equities)

23

24 ix) Debt is expected to grow quite significantly with
25 major hydro-electric expansion

1 Recommendation

2

3 * Independent Review of floating/fixed target range and
4 maximum - consideration of tradeoffs in terms of economic
5 benefit and stability

6

7 Benchmarking

8

9 * Cost Benchmarking (1084)

10

11 a) Coalition I-73

12

13 Hydro has not participated in any recent
14 benchmarking exercises comparing its costs with
15 those of comparable utilities either in terms
16 of total costs or individual functions (1087)

17

18 b) no Canadian Electrical Association cost
19 comparison with other utilities since 2003/04
20 (Coalition Exhibit 33) "the last report produced
21 by the Canadian Electrical Association was in 2004
22 for the 2003/04 fiscal year)

23

24 more of a high level comparison (1087)

25

1 but

2

3 c) Hydro does participate in Ontario One
4 distribution study

5

6 cost per kilometre

7 cost per customer

8 asset replacement rates

9 reliability

10 safety

11 meter reading

12 tree trimming

13

14 and d) Hydro does participate in the Hay Group -
15 Comparison of Labour Rates and Overtime Policy

16

17 Recommendation

18

19 * little value in highly aggregated straight from the
20 annual report benchmarking

21 * PUB consider process and cost benchmarking on a
22 selective basis to explore value

23

24 Should we continue to rely on the current debt/equity
25 target for rate setting purposes?

1 First Principles

2

3 * debt/equity targets

4

5 demonstrate to financial community that hydro is
6 financially sound (3649)

7

8 stabilize rates in face of adverse events

9

10

11 Questions/Criticisms

12

13 * in an era where debt is expected to grow materially,
14 does the debt/equity target act as a perpetual
15 justification to raise rates even if forecast
16 expenditures are not prudent, reasonable, or necessary?
17 (3423)

18

19 * in such an era - do you end up with an undefinable
20 concept of making sufficient progress (3423)

21

22 * from a pragmatic perspectives

23

24 if you're looking at satisfying financial
25 community should be looking at what they're

1 actually rating (i.e. Standard and Poor's standard
2 measurement) (3650)

3

4 MB Hydro doesn't take real issue with Standard and
5 Poors calculation (1205)

6

7 Figures for MB Hydro and BC Hydro over the last
8 three years - quite similar (1207)

9

10 if you want to benchmark against other utilities
11 use same testing

12

13 what's of relevance is continued improvement
14 (3651)

15

16 in terms of drought or adverse event - debt/equity
17 of less relevance than actual number (3652)

18

19 Recommendation

20

21 * in the context of next GRA and proposed major capital
22 expenditures, re-examine purpose of target and best means
23 to measure

24

25 Energy Efficiency

1 Is the Corporation getting optimal bang for the buck when
2 it comes to energy efficiency? What is the optimal way
3 to reduce barriers to energy efficiency for all consumers
4 including tenants and low income people? Has the time
5 come for inverted rates for residential customers?

6

7 Low Income Issues

8

9 Low income consumers behaviour or response likely
10 different from other consumers (897) Kuczek) - you're
11 dealing with a different market when you're dealing with
12 persons who are struggling on a day to day basis just to
13 get by

14

15 priorities could be "just getting by day to day
16 and worrying about how they're going to pay
17 their bills "

18

19 Particularly Acute Barriers to Low Income Efficiency

20

21 Dunsky (slide 5) (3657 - 3660)

22

23 * Access to capital

24

25 * Split or displaced incentives

1 * Organizational practice and customs

2

3 landlords - low cost model

4

5 contractors - distrust low income market

6

7

8 * Others

9

10 education (illiteracy), linguistic challenges,

11 distrust

12

13 Kuczek

14

15 lack of access to capital which diminishes the

16 ability to pay for higher upfront costs (990)

17

18 higher than average mobility adds uncertainty to

19 economic value of long term investments (990)

20

21 contractors may be unwilling to work for low

22 income customers or charge a premium to them (990)

23

24 split incentives disproportionately hits low

25 income persons who are disproportionately renters

1 (990) Dunsky - Low Income

2

3 A Very Challenging Market

4

5 Its a very complex market. Its a very complex and
6 difficult thing to do, to design an energy efficiency
7 program for this market segment that's actually going to
8 work (3661)

9

10 The biggest challenge is actually getting people
11 interested in participating even though its free of
12 charge (3666)

13

14 Principles for Success (3661 -

15

16 * keep it simple - turnkey - take ownership A to Z of
17 what your are trying to do with the customer (3662)

18 * keep it free (3664)

19 * focus on outreach (3665)

20 * be comprehensive (36666)

21

22 Hydro's Weaknesses

23

24 * design (complexity/hops/ownership)

25

1 this is a serious barrier and it is going to
2 diminish participation tremendously (3675) (3680)

3

4 there's an enormous barrier here that will
5 significantly affect participation (3681)

6

7 Reference table

8

9 best practices employ the turnkey approach (3686)

10

11 * delivery (CBO challenges) (3675)

12

13 capacity (3686)

14

15 either be selective or invest heavily in
16 training

17

18 right CBO culture for the job (3688)

19

20 * measures (furnaces (3693) , fridges (3689), grey water
21 heat delivery) (3676)

22

23 the furnace component of this program isn't
24 much of one - its simply not going to address
25 those barriers (3694)

1 there is no way this is going to get at the
2 early replacement opportunity (3695)

3

4 Low Income Energy Efficiency Programs

5

6 a) Tests - Issue how regulator might wish to evaluate
7 benefits (Board advisor cross examination)

8

9 TRC - what are the benefits and costs of
10 implementing a measures

11

12 total benefits versus total costs (benefits =
13 direct energy benefits)

14

15 Societal cost tests - theory there's more
16 benefits associated with implement DSM measures
17 than just the avoided costs (983) - (used
18 California and Oregon) (983) - other benefits
19 environment/comfort (982)

20

21 RIM -(985) - indication of cost effectiveness from
22 a ratepayer's perspective - provides an indication
23 of the program's long term impact on rates

24

25 b) Customers pay bills not rates

1 might pursue to have a more balanced portfolio
2 (986)

3

4 even if slightly negative impact on rates - may
5 have a very positive impact on bills for those who
6 participate in the program (987)

7

8 c) LIEEP is good for the portfolio

9

10 Kuczek - 989 "we think they're good for the DSM
11 portfolio as a whole."

12

13 good because:

14

15 offering some significant potential bill
16 impacts for low-income consumers (989)

17

18 getting into a marketplace where we don't feel
19 like that market sector has participated as much
20 as we'd like (989)

21

22 Bowman

23

24 Low income DSM is not always going to meet the
25 RIM test but there may still be reasons to

1 pursue it that relate more tha policy
2 perspective than a strict economics
3 perspective. (3450 - 3452)

4

5 d) Participation Goals

6

7 Aspiring for higher participation within the LIEEP
8 programs (989)

9

10 Our objective is to totally clean up the market
11 (989)

12

13 e) The marketplace - A small number

14

15 no estimate of the marketplace currently being
16 reached by other programming because haven't
17 tracked power smart programming based on income
18 level (992) PUBI-74 e))

19

20 76,000 households - 35% electrical 26,600 (993)

21

22 calculation of 76,000 excluded customers residing
23 in apartment suites (MH 32, Undertaking 37)
24 (almost 100,000 apartment suites in Manitoba
25 (Coalition 5)

1 objective over next 3.5 to 4 years 4600 households
2 (993)

3

4 expect 35% of the households to be electrical
5 (995)

6

7 it might even be a little higher we're talking to
8 a number of First Nation communities at this
9 point, and we're hoping to pursue more communities
10 in the rural and northern areas as well (995)

11

12 6 percent of total target (994)

13

14 "its a small number" (994)

15

16 "a bit less than 2 percent per year" (994)

17

18 it was decided that the level would be an
19 aggressive target to pursue (994)

20

21 some entities that had their programs up and
22 running for longer than us might feel like they
23 could capture 3 percent (995)

24

25 f) A Challenging Market Place

1 * the Centennial pilot started off with a plan being
2 formulated but at the end of the day we didn't really use
3 the plan (1010)

4

5 * going forward our intent is to have a plan and a
6 contract with these community based organizations (1010)
7 plan = target, time frame, method and measures, agreement

8

9 * no model or template for a community energy efficiency
10 business plan developed yet (1011)

11

12 * we're going to be meeting with both those community
13 organizations and be reviewing a draft plan that they're
14 proposing to us in the near future (1011)

15

16 * looking at something similar but different for First
17 Nation communities (1012)

18

19 g) A Small Number that is unlikely to be reached

20

21 i) focus on community based organizations for program
22 delivery (1015)

23

24 a lot will depend on community based organizations
25 (1014) - that's where most opportunities and

1 results will be achieved (1014)

2

3 not all are created equal, some have more
4 administrative capacity - some have less (1015)

5

6 no criteria developed for evaluating the
7 capability of community based organizations
8 (1015)

9

10 ii) Pilot projects (1020,-1023) (PUB I-34), Tab 40 PUB
11 Exhibit 12, Coalition II-100 a)

12

13 "we're not meeting the targets that we originally thought
14 we could meet."

15

16 The community organizations came up with a number of ten
17 (10) per month and they haven't met those targets to
18 date. (1032)

19

20 Community	Target	Reality
21 Brandon	120	40 (all MHA)
22 Island Lakes	110	zero
23 Centennial	120	111 (all MHA)

24

25 Island Lake

1 "we provided the material that we thought they required
2 to do a hundred and one homes and it's sitting in storage
3 right now up there." (1027)

4

5 they've had the materials for more than a year and
6 there's nothing more to report (1784)

7

8 it went from a fairly small project to something that was
9 really likely unrealistic and quite expensive (1787)

10

11 Centennial and Brandon

12

13 (1024) participation does not mean that objectives in
14 terms of weatherization and retrofit have been attained
15 "There's certainly some challenges with the
16 community-based organizations in terms of moving forward.
17 . . . " "Where the challenges come into play is caulking
18 and certain measure like that." (1025) "retrofitting"

19

20 all MHA (1029) the plan was to move into private
21 households after MHA experience "And because of some of
22 the challenges in Centennial they haven't proceeded there
23 yet."

24

25 to date neither Brandon or Centennial has embarked down

1 the path of private households (1030)

2

3 1031 - "no contracts with Brandon and Centennial"

4

5 h) Monitoring - A Piecemeal type of approach

6

7 Dunsky's suggestions for evaluation of community based
8 groups (1033)

9

10 ability to hit targets

11

12 time from first contact to work completion

13

14 results of quality control spot checks

15

16 client satisfaction surveys

17

18 Hydro's Response

19

20 (1034) we have to be very careful on how we work with
21 some of these community organizations "we are monitoring
22 things informally"

23

24 "Flexible, ad hoc basis" (1034/1035)

25

1 "its a piecemeal type of an approach." (1035)

2

3

4 i) The Targets are underrepresentative of renters

5 84% owners 16% renters (1038) (Coalition 7)

6

7 the "targets are underrepresentative of renters"

8 (1039)

9

10 homeowners as opposed to renters will

11 disproportionately benefit (1040)

12

13 the current makeup of the low income energy

14 efficiency program excludes the tenants of

15 apartments (1040)

16

17 yet Centennial suggests "69 percent of low income

18 household rent their accommodations and 31 percent

19 own" (1048)

20

21 j) Apartment Pilots

22

23 no business plan "Its learn as you go" (1043)

24

25 not aware of successes in other areas in terms of

1 renters (1044)

2

3

4 k) Complexity - Dunsky's description of the process is
5 reasonable (1051)

6

7 "We've had some discussions about whether or not in some
8 cases it might make sense for us to work with contractors
9 and try to streamline the process . . . " (1054)

10 Renters

11

12 Barriers for Renters

13

14 * Chernick (2954)

15

16 split incentive problem,

17

18 capability problem,

19

20 shorter investment horizon due to uncertain

21 tenure)

22

23 * Chernick (2956) split incentive or principle agent
24 problem where bill payer has one set of incentives but
25 the landlord, contractor, the plumber have other

1 incentives and its very difficult to get the right result
2 because of that inefficiency

3

4 * capability Chernick (2955) - you may not be in a
5 position to put in gas heating because the landlord has
6 to make the arrangements

7

8 * shorter investment time horizon - Chernick (2955) when
9 you get into things that have pay backs of even four or
10 five years, you may be reluctant to undertake them

11

12 Risk for renters in an inverted rate structure

13

14 risk for renter under an inverted rate structure
15 is that they will experience the higher cost but
16 lack the capability or can't make the business
17 case to respond to the energy efficiency signal
18 (2957) - Chernick

19

20 Objectives

21

22 moving into an inclining rates structure
23 environment - you would want to have a set of
24 energy efficiency programs that were available to
25 everyone and would actually work in the

1 marketplace (Chernick - 2957)

2

3 Perhaps Gradualism

4

5

6 if you say by the time you got the programs
7 designed and worked out, it might be a year or
8 two, so we want to have a little less of an
9 inverted block, well maybe (Chernick 2959)

10

11 Recommendations re low income and tenancy DSM

12

13 * modify program design to ensure turnkey service in
14 which Manitoba Hydro (or its contractors) subsume all
15 contracting, payment and incentive collection tasks

16

17 * Assess CBO capacities prior to contracting

18

19 * Add a fridge replacement component and adopt a more
20 aggressive approach to furnace replacement

21

22 * Concern that roll-out of LIEEP is too slow - request
23 proposal for expedited roll-out of LIEEP which addresses
24 costs/benefits/sources of funding

25 Inverted Rates

1 Inverted Rates Don't Substitute for good DSM

2

3 Chernick - inverted rates "dont" substitute for good
4 energy programs from the utility (2952)

5

6 Estimate of the Impact of Effective TOD and Inverted
7 Rates on Manitoba Hydro's Revenue Requirement (Coalition
8 25, pp. 46 -48)

9

10 Evaluation of scenarios by NERA (2368 - 2370)

11

12 Class Largest Impact on Revenue Requirement of Scenarios	
13 residential	negative 2 percent
14 medium general service	negative 8.4 percent
15 general service large greater	
16 than 100 kV	negative 13.3 percent

17

18 largest impact on revenue requirement due to GSL - due
19 to:

20

21 in large part - greater relative elasticity (2371)

22

23 gap between current prices charged and marginal
24 costs (2372)

25

1 Inverted Rates Impact on Lower Income Consumers

2

3 estimate of electric customers with incomes less than
4 30,000 (999)

5

6 85,745 (Coalition II-70)

7

8 18,608 earning less than \$30,000 and consuming
9 more than 18,000 kw.h per hear (1002)

10

11 16,561 all electric customers earning less than
12 \$30,000 and consuming more than 18,000 kW.h
13 annually (1002)

14

15 Inverted Rates for Residential Customers

16

17 Issue 1:

18

19 Fairness to:

20

21 all electrical with no competitive options

22

23 low income persons who lack the resources to
24 pursue DSM

25

1 renters who may lack the ability to pursue DSM or
2 for who DSM is uneconomic due to split incentives

3

4

5 Harper (3706)

6

7 * in theory, a good thing from efficiency perspective

8 (3707)

9

10 * hallmarks for success:

11

12 efficiency results

13

14 programs available so consumers can take advantage

15 to the widest possible extent (3708)

16

17 publicly acceptable from a fairness perspectives

18

19 * barriers to customers' ability to respond:

20 low income

21 tenants

22 rural

23

24 * for both fairness and efficiency reasons these

25 situations need to be address if residential inverted

1 rates are to be successful (3708)

2

3 * generally agrees with Hydro's proposal for 2008 (3709)

4

5

6 * Key issues to address before further implementation:

7 barriers to customers' ability to respond:

8 low income

9 tenants

10 rural

11 current DSM programs need to be fully focused on

12 those using 1500 Kwh per month or more (3710-11)

13

14 Wiens

15

16 re barriers to customers' ability to respond:

17 low income

18 tenants

19 rural

20 we have some sympathy for this - that we would

21 look at gradual implementation as the way of

22 dealing with it (2445 - 2446)

23

24 the difference between low income population and

25 the proposed pace of implementation of low income

1 DSM programming would be one of the factors
2 suggesting caution in the pace at which inverted
3 rates are implemented or the pace at which you
4 move towards marginal costs (2446 2447)

5
6

7 Recommendations

8

9 Inverted rates important price signal but
10 overshadowed by equity concerns

11

12 Clients appreciate recognition of fairness issues
13 and calls for gradualism

14

15 however, believe fundamental lack of fairness to
16 implement inverted rates before giving vulnerable
17 groups the tools to achieve energy efficiency

18

- 19 - slow roll out low incomes
- 20 - no roll out tenants
- 21 - all electric use growing in rural Manitoba

22

23 delay inverted rates until DSM house in order
24 particularly for low income, tenants all electric
25 no competitive options

1

2 Public Education Important (consider Weiss
3 comments)

4

5 Inverted Rates for Residential Customers (2378)

6

7

8 Issue 2:

9

10 Balancing Issues of

11

12 Equity

13

14 Economic Efficiency

15

16 Administrative Efficiency

17

18 Hydro's Current Approach

19

20 * same block size for all electric and standard - no
21 seasonal variation (2379)

22

23 NERA's approach

24

25 * separate non seasonal first blocks defined both for

1 standard and electric space heating or

2

3 * same block size but varying by season

4

5 * NERA prefers seasonal variation (2381)

6

7 better allocation of resources (2382) - economic
8 efficiency

9

10 administrative benefit (2382)

11

12 Wiens commentary (2383)

13

14 * there is a real issue of being able to determine who
15 heating with electricity and who is using it for other
16 uses (2384)

17

18 * we have an issue with being accurate about who has and
19 who hasn't electric heat when we're talking about
20 something in the order of four hundred and twenty
21 thousand residential customers (2384)

22

23 * the simplest way to deal with it is to have a low first
24 block in the summer months and a higher one in the winter
25 months (2386)

1 * administratively, I believe it is doable within the
2 context of the existing billing system (2388)

3

4 * the higher you raise the breakpoint in winter - you're
5 minimizing the impact on people who have difficulty
6 finding another sources and certainly would have to incur
7 greater costs perhaps significantly greater costs (2387)

8

9 * but the higher you move up - you're giving up some of
10 the economic efficiency benefit (2387)

11

12 Recommendation

13

14 clients recognize administrative difficulties and
15 efficiency arguments but key issue is
16 vulnerability of those who rely upon electric heat
17 for home

18

19 Rand study suggests highly inelastic for those
20 with no competitive options

21

22 preference all electric heat block

23

24 Low Income Discount Programming

25

1 Apprise, Ratepayer Funded Low-Income Energy Programs:
2 Performance and Possibilities (July 2007) (Coalition 37)

3

4 * Despite funding of over \$4.5 billion in Federal and
5 ratepayer assistance, there are not enough funds to meet
6 the low-income need for energy assistance. (p. 85)

7

8 * Chernick - there's certainly many jurisdiction in which
9 additional assistance is required (2977)

10

11 * Evaluation data showed that only one third to less than
12 one half of the eligible households are served by these
13 programs (86)

14

15 * Even among good quality affordability programs in the
16 US, there is a gap between those eligible and those
17 actually served (Chernick - 2979)

18

19 * Most of the programs require customers to verify their
20 program eligibility every year or every other year . . .
21 recertification is a challenge to these programs. While
22 most customers remain in need of program assistance only
23 40 to 65 percent re-enroll or re-certify. (87)

24

25 * Energy affordability programs reduce the cost of using

1 energy, and therefore program managers are concerned that
2 they may result in increased energy usage . . . Program
3 evaluations find small and insignificant increases in
4 energy usage, or sometimes even declines in energy usage
5 (Coalition 37, p. 95)

6
7

8 Chernick - "if you're skimping on food, and skimping on
9 your medications, and keeping the thermostat down, and be
10 very careful to keep the lights out, if your budget is
11 relaxed a little bit by having your electric bill
12 discounted, or your gas bill discounted, the first thing
13 you may do is spend your money on the food or the
14 medications or something else that's important to you
15 (efficiency) (2965)

16
17

Comment

18

19 While clients are open to further study of the issue,
20 uncomfortable with low income discount programs:

21

- 22 * poor record in terms of participation
- 23 * division of low income consumer from others
- 24 * means testing always leaves uncomfortable

25 DSM

1 Are programs aggressive?

2

3 Are programs efficient?

4

5 Should the regulator/hydro be thinking about DSM in a
6 different way?

7

8 Discussion Chernick, Dunsky, Bowman appropriateness of
9 different screens

10 RIM

11

12 Societal Cost Testing

13

14 TRC

15

16 as well as non energy benefits

17

18 Recommendation

19

20 * Independent Review of DSM Portfolio (screening tests,
21 portfolio, nebs)

22

23 * Report back on development in terms of metering
24 technology (965) - i) utility controlling thermostats
25 (i.e. peak shaving) 977 ii) blue line - information in

1 terms of rates and usage

2

3 Efficiency and Marginal Cost Based Pricing

4

5 Estimated Short-term Load Reduction if Marginal Rates

6 Applied (Hydro 80)

7

8

9 Residential 1.7%

10

11 GSL large greater than 30 kV 14%

12

13 going to marginal costs

14

15 - the smallest long term load reduction would be
16 residential

17

18 - the largest long term load reduction would be
19 GSL

20

21 due to:

22

23 a) relative gap between actual rates and marginal
24 cost based rates (2432)

25

1 b) assumed elasticities

2

3 Elasticity (per Wiens and NERA)

4

5 what is elasticity

6

7 elasticity is a key measure of the likely response of
8 customers to the new rate structure (2356)

9

10 it is measured by the percent change in quantity demanded
11 divided by the percent change in price (2356)

12

13 typically in the negative range indicating that demand
14 falls as price increases (2356)

15

16 what is inelastic demand

17

18 inelastic demand is a less than proportionate change in
19 demand as compared to the change in price (2357)

20

21 what does economic theory suggest about consumers' demand
22 for energy

23

24 economic theory suggests that consumers' demand for
25 energy is less sensitive to price change than the demand

1 from other commodities (2358)

2

3

4 what does NERA assume regarding the elasticity of
5 residential and large industrial customers

6

7 NERA assumption for residential customers for the
8 purposes of their study - highly inelastic (2359)

9

10 some residential uses will be higher than NERA assumes
11 and some will be virtually zero (Wiens 2363)

12

13 NERA assumption for large industrial greater than 100 kW
14 pretty inelastic but much more elastic than residential
15 (2360)

16

17 in terms of energy intensive - there would be a
18 significant higher elasticity than the NERA assumption
19 and a lower elasticity to some other types of industry
20 (Wiens 2363)

21

22 the bottom line

23

24 when one goes from the short term to the longer term the
25 elasticity numbers assumed by NERA will go up

1 "But typically, the general consensus, the
2 conventional wisdom, is that they're still going
3 to be inelastic. You're still not going to get a
4 response to price that is, in terms of the
5 quantity demanded, that is as great as the change
6 in price." (2364)

7

8 Elasticity Part 2

9

10 Regional Differences in the Price Elasticity of Demand
11 for Energy - Rand Corporation, February 2006 (Coalition
12 31)

13

14 a) methodology

15

16 (30 year literature review) (state-level panel data on
17 residential and commercial electricity consumption and
18 residential natural gas consumption 48 contiguous US
19 states) (residential data 1977 to 2004) (13)

20

21 b) key conclusions

22

23 * the relationship between demand and price is small (xi)

24 * demand is relatively inelastic to price (xi)

25 * in the past 20 years, this relationship has not changed

1 significantly (xi)

2

3

4 Class(23)	Short Run Elasticity	Long Run Elasticity
5 res elec	-.24	-.32
6 com elec	-.21	-.97

7

8 * locations where particular energy uses are very
 9 valuable such as air condition in southern states or
 10 winter heating in northern states could have price
 11 elasticity smaller in absolute magnitude because air
 12 conditioning and heating are so so valuable during
 13 periods of extreme climate that consumers are unwilling
 14 to change their use when prices change (p. 7) (2437)

15

16 * Wiens - this premise "generally accords with
 17 conventional theory" (2437) - if the use is valuable and
 18 there is no easy substitute, you're going to have a
 19 tendency that its going to be less elastic

20

21 c) Caveats and interesting points

22

23 * need to examine more closely in increasing price
 24 environment (xi) reference to California (2000 - 2001)

25

1 * reference to Bohi and Zimmerman (1984) - the energy
2 price shocks of the 1970s did not change the structural
3 characteristics of consumer demand (11) see also Stevens
4 and Adams (on record) Study response to energy crisis
5 "the demand for electricity in the residential sector is
6 estimated to have become less elastic for the recent
7 period of rising real prices as compared to earlier
8 periods of stable or falling real price" "We conclude
9 that demand appears to be asymmetric with respect to
10 price in both the short and long run."

11 Household Electricity Demand Revisited, Review of
12 Economic Studies 2005 (Excerpt Coalition 32), Reiss and
13 White

14

15 a) Methodology

16

17 extensive data representative sample of 1300 California
18 households (res), 1993 and 1997 data - study the likely
19 effects of controversial new tariff in California
20 following electricity supply crisis in 2000 - 2001

21

22 b) Conclusions

23

24 mean annual price elasticity to be negative 0.39

25

1 most households will alter their electricity consumption
 2 very little in response to a price change (870)

3

4 households that do not use electricity for space heating
 5 or air conditioning have an estimated mean price
 6 elasticity very close to zero (869)

7

8 a small fraction are energy demanders (1/8) and would
 9 react with large changes

10

11 households with lower income are more sensitive to energy
 12 prices than households with medium to high incomes (870)

13

14 Cost of Service Issues

15 Context

16

17 A. The Changing Face of Consumption

18

19 Residential	General Service Top Customers
20 (2303)	(2306-07)

21

22 1986/87	5,000 GwH	3,000 GwH
23 2006/07	6,500 GwH	6,000 GwH
24 2017/18 (for)	7200 GwH (2308)	8,600 GwH (2308)

25

1 * By 2009/10, Top Customers annual sales are projected to
2 exceed residential. (2307)

3

4 * In the 1980s, annual residential sale were a fair
5 degree above the general services top customers and by
6 2017/18, the reverse is actually expected to be the case.
7 (2309)

8

9 Top consumers are projected to be a significant degree
10 above the residential sales by 2017/18. (2309)

11

12

13 B. Rates/Market Prices/Marginal Costs

14

15 (i) Average Export Prices Tend to be higher than
16 large industrial rates and lower than residential
17 rates (2344 - 2350)

18

19 * average gross export rate forecast for fiscal 07/08 5.4
20 cents per Kwh (2349)

21

22 * average gross export rate forecast for fiscal 08/09 5.6
23 cents per Kwh (2349)

24

25 * by 2006/07 average residential rates above 6 cents per

1 Kwh (2347)

2

3 * 2006/07 - average GSL greater than 100 kV less than 3.5
4 cents per Kwh (2347/48)

5

6 ii) Average Import Prices Tend to be higher than
7 large industrial rates and lower than residential
8 rates (2344 - 2350, 2425)

9

10 * 2006/07 - GSL greater than 100 kV - less than 3.5
11 cents per Kwh (2347/48)

12

13 * Corp actual average cost of imports for 2007/08 5.35
14 cents per Kwh (MH 87)

15

16 * by 2006/07 average residential rates above 6 cents per
17 Kwh (2347)

18

19 iii. Residential rates are closer to marginal costs than
20 those of large industrials

21

22 (Coalition 29)

23

24 Class	Current Rate	Long Run Marginal Cost
25 res	6 cents per Kwh	7.6 cents per Kwh

1 GSL greater than
2 30kV 3.2 cents per KWH 6.8 cents per KWH

3

4 C. Electricity Intensive Industry is Expected to be a
5 Major Driver of Load Growth in the Next Five Years

6

7 * Load growth for electricity intensive industry for the
8 next five years is expected to amount to 57% of total
9 load growth. (2310 or Coaliton II-37)

10

11 D. Large Energy Intensive Industry is being attracted
12 to Manitoba on a scale that's large enough to
13 threaten the Corporation's Revenue Position (2316)

14

15 short term - load being diverted from the export market

16

17 * selling for 3.2 cents per KWH which is considerably
18 lower than average for firm or opportunity exports
19 (2317/18)

20

21 * See (Coalition Exhibit 20)

22

23 long term

24

25 - load being diverted from the export market - also

1 advancing costs in terms of new generation and
2 transmission

3

4 The Minister's Letter of February 19, 2008 (MIPUG 12)

5

6 Manitoba Hydro's proposed approach is intended to balance
7 the need to support economic growth in Manitoba along
8 with minimizing upward rate pressure on all Manitoba
9 Hydro customers.

10

11 I share Manitoba Hydro's concern that increased
12 concentrated consumption of low priced energy may
13 displace higher value export sales opportunities and
14 thereby lead to higher bills for all domestic
15 (residential, commercial and industrial) customers as
16 well as inhibit global greenhouse gas emission
17 reductions.

18

19 E. Energy Intensive Load is Most Susceptible to Rates
20 below market rates (2321)

21

22 * "energy-intensive industry is more influenced than
23 other industry and more influenced than other customer
24 classes by the price of - - of electricity" (2322)

25

1 * typically large industrial users for which electricity
2 is a significant part of their cost of production are
3 going to be more attracted to lower rates than:

4 a) a residential customer coming to Winnipeg

5 b) non energy intensive industry

6

7 Different Conceptions of Equity

8

9 Fairness

10

11 equal customers should be treated equally in terms
12 of assignment of costs and unequals unequally
13 (2413)

14

15 while we do tend to look at the past, it is also
16 true that one can look at any kilowatt hour and
17 say that it is a marginal kilowatt hour as well
18 (2416)

19

20 historically - embedded costs have been used to
21 define fairness

22

23 test are individual customer classes paying their
24 fair share of the costs incurred in the past being
25 used to service today's customers (2415)

1 some jurisdictions have used equal proportion of
2 marginal costs

3
4 test - looks at the cost the current customer's
5 consumptions decisions will lead to in the future
6 (2416)

7
8 there's a case to be made that you need to give it
9 some weight when you've got the type of divergence
10 between embedded and marginal costs that we're
11 seeing in this jurisdiction today (Wiens - 2415)

12
13

14 Efficiency

15

16 rates should provide a signal to consumers
17 regarding the cost consequences of their
18 consumption choices (2414)

19

20 Coalition 28

21

22 RCC from a variety of perspectives

23

24 no exports

25

1 Board approved methodology
2
3 Hydro Recommended Approach
4
5 Marginal Cost per Hydro Exhibit 68
6
7 Normalized Marginal Cost per Coalition 26
8
9 Coalition Exhibit 26 (2400)
10
11 * somewhat akin to the equiproportional marginal cost of
12 approach to class revenue allocation of some other
13 jurisdictions (2402)
14
15 * results
16
17 Class
18
19 Residential 1.1
20
21 GSL greater than 100 kV 0.815
22
23 Equiproportional Marginal Cost Approach to Class Revenue
24 Allocations (2372 - 2376)
25

1 setting class revenue requirements on the basis of equal
2 proportion of class marginal cost revenues (2373 to
3 2376)

4

5 MIPUG's Approach

6

7 i) MIPUG's approach to determining marginal cost-based
8 revenue to cost ratio is set out in its Exhibit #15

9 ii) MIPUG works out the marginal costs by customer class
10 for each major function COSS function: Generation,
11 Transmission, Sub-Transmission; Distribution (Customer)
12 and Distribution (Plant).

13 iii) Then for each function - the relative allocation by
14 customer class based on marginal costs is applied to the
15 Embedded (i.e., PCOSS) determined cost for the function

16

17 Commentary:

18

19 MH Cross-Examination (TR. 3564)

20

21 * The first part of MH's cross points out the difference
22 between the total marginal cost and total embedded cost
23 varies (on a percentage basis) widely across the various
24 functions (TR 3568-3571)

25 * The second part of the MH's cross points out that under

1 MIPUGs proposal the ratio of embedded costs attributed to
2 each class (using MIPUG's MC method) relative to the
3 total marginal cost of serving each class varies widely
4 (TR 3572-3575)

5 * Residential is 38%

6 * GSL > 100 is 58%

7

8 Significance

9

10 * Stepping back for moment, the objective is to look at
11 the results of a marginal cost based "cost allocation"
12 and use it to help inform decision with respect to
13 revenue allocation to customer classes

14 * MH's exhibit #68 calculates the marginal costs to serve
15 each customer class. However, when contrasted with the
16 revenues from each class the results are all below 100%
17 and do not provide useful input as to which classes are
18 paying more/less than they should when the issue is
19 considered from a marginal cost perspective

20 * In order to make the results useful - one want to
21 normalize the results around 100% (so the R/C are in a
22 form we are used to seeing)

23 * Exhibit 68 achieves this by simply pro-rating the
24 marginal costs allocated to each class down by the same
25 percentage such that the total now equals the total

1 revenues collected from customers - hence the term "equal
2 proportional".

3

4 * The second part of MH's cross - brings out the fact
5 that under the MIPUG approach the difference between the
6 actual marginal costs and the adjusted marginal costs (to
7 match the revenues) is not the same for each class - they
8 are all not the same "equal proportion".

9 * The reason this occurs is that the ratio of marginal
10 costs to embedded costs varies by across the functions -
11 as illustrated in the first part of MH's cross.

12

13 Which Approach is Correct?

14

15 iv) Unfortunately no one asked Mr. Harper

16

17 v) In the Coalition's view the MH approach is correct.

18

19 vi) The MIPUG approach is better suited to where one want
20 to incorporate marginal cost principles in an embedded
21 COSS (as opposed to doing a Marginal costs based COSS).
22 The allocation of generation costs using the SEP prices
23 is one example of where MH is already doing this and the
24 approach is very similar to MIPUG's - i.e. determine the
25 marginal costs for a function and use them to allocate

1 the cost of that function)

2

3 vii) If the Board want to look at a the implications of
4 using a marginal cost based COSS it should not look at
5 the end results of MIPUG 15 . The MIPUG approach
6 distorts these results - by forcing reconciliation to an
7 embedded cost approach on an individual function basis.

8

9 Differential Rate Increases

10

11 Harper's Position

12

13 weight to embedded cost of service

14

15 caution first year of application study (3704)

16

17 PUB - other factors pre-export allocation,
18 marginal and environmental costs hese perspectives
19 can yield significantly different results (3705)

20

21 rate increase already above inflation would be
22 compounded by differential rates (3705)

23

24 Hydro's position

25

1 * its premature to differentiate among classes for two
2 reasons

3

4 i) order 117/06 noted factors other than embedded costs
5 should be considered (2398) - when you take a marginal
6 cost perspective that might provide a very different set
7 of recommendations when it comes to differential rate
8 increases (2398)

9

10 Recommendation

11

12 With the exception of Roadway lighting reject
13 differential rates increase

14

15 Marginal Cost Notes

16

17 Hydro's Marginal Cost Analysis May Overstate Local
18 Distribution and Customer Costs

19

20 * its a possibility estimated marginal costs for customer
21 costs may be overstated (2393) Wiens

22

23 * these are the type of costs that if we add a customer
24 during the course of the years are not likely to change
25 to the same degree as the average so it could be an

1 overstatement (2393) (Wiens)

2

3 * Wiens its more likely they're overstated than
4 understated (2394)

5

6 * in the short term, the marginal costs of distribution
7 are probably overstated (2394)

8

9 * to the extent that Hydro is in error, these errors
10 would be disproportionately borne by the residential
11 class, general service small and to a less extent medium
12 (2396)

13

14 * likewise, Bowman - Bowman wouldn't be surprised if the
15 incremental cost of adding a new residential customer was
16 lower than the average cost (3445)

17

18 * customer service costs more material to residential
19 about 10% than large industrials (about 1%) (3445)
20 (Bowman)

21

22 Local Distribution and Customer Costs play a more
23 marginal role

24

25 * customer marginal cost not a function of customer's

1 electricity use and more peripheral to the design of the
2 tailblock rate (2354) (Coalition Exhibit 25, p. 14)

3

4 * local distribution cost less relevant to the design of
5 the tailblock rate because they're less driven by
6 customer usage and less elastic in terms of customer
7 response (2354) (Coalition Exhibit 25, p. 14)

8 Residential Monthly Charge

9

10 * customer related costs are a legitimate cost (2449)

11

12 * to the extent one went to a pure volumetric recovery of
13 these costs, there would considerations in terms of
14 fairness (2449)

15

16 * the losers would be high volume consumers

17

18 * given the other rate design issues, perhaps the basic
19 monthly charge should be focused on recovering a
20 percentage of the customer costs excluding customer
21 related distribution flat costs (2448-49) (i.e. exclude
22 customer related distribution costs and focus just on
23 customer service and metering costs) (2450)

24

25 Transparency and the Issue of Marginal Cost Estimates

1 (2921 -22)

2

3 Experience in Other Jurisdictions

4

5 Chernick

6

7 * even where commercially sensitive, that is not put onto
8 the public record, "its almost always available to the
9 regulators and to most or all of the parties under
10 appropriate protective orders." (2922-2923)

11

12 * purpose - provide transparency (2923) test
13 reasonableness (2924) improve the record (2924)

14 Rates for New or Expanded Industrial Load

15

16 A. The Concern

17

18 low price energy consumption by energy intensive
19 industries may be displacing higher priced export
20 opportunities (2326)

21

22 negatively effecting - Manitoba Hydro's bottom
23 line (2326)

24

25 negatively effecting - customers' bills (2326)

1 B. The Other Perspective

2

3 potential benefits to Manitoba (2327)

4

5 increased tax base

6

7 increased payrolls

8

9 retention of good corporate citizens

10

11 C. The Balancing Act

12

13

14 Trying to weigh the provincial benefits which may

15

16 in some cases be revenues to government

17

18 may be regional income benefits

19

20 against the overall cost to customers who would

21 have to see rates go up because of expansion of

22 the load (2328)

23

24 D. Transparency and The Dispute Resolution Process

25

1 propospal in event of dispute regarding baseline
2 or exemption criteria that PUB act as arbitrator
3 (2334)

4
5 no PUB approval process in the event customer
6 exempted from higher rates (2335)

7
8 an important program because its going to have an
9 impact on the bottom line of the Corporation and
10 on customers' bills (2338)

11
12 to the extent that exemptions are granted - they
13 will put upwards pressure on other customers'
14 bills (2338)

15

16 Recommendations

17

18 Proposed Rate Increases

19

20 approve interim 2.25 for 07/08

21

22 approve 1.9% 08/09

23

24 Regulatory Process

25

- 1 * Independent Review of Capital Expenditure - major
2 projects and O, M and A (Forecast and Management Best
3 Practices)
4
- 5 * Employment of Asset Condition Assessments
6
- 7 * Improve Presentation to Regulator of OM&A Budget (3642
8 - 3643)
9
- 10 * Independent Review of floating/fixed target range and
11 maximum - consideration of tradeoffs in terms of economic
12 benefit and stability
13
- 14 * In the context of next GRA and proposed major capital
15 expenditures, re-examine purpose of debt/equity target
16 and best means to measure
17
- 18 * PUB consider process and cost benchmarking on a
19 selective basis to explore value
20
- 21 Energy Efficiency
22
- 23 * Independent Review of DSM Portfolio (screening tests,
24 portfolio, nebs)
25

1 * Report back on development in terms of metering
2 technology (965) - i) utility controlling thermostats
3 (i.e. peak shaving) 977 ii) blue line - information in
4 terms of rates and usage

5

6 LIEEP

7

8 * modify program design to ensure turnkey service in
9 which Manitoba Hydro (or its contractors) subsume all
10 contracting, payment and incentive collection tasks

11 * Assess CBO capacities prior to contracting

12 * Add a fridge replacement component and adopt a more
13 aggressive approach to furnace replacement

14

15 * Concern that roll-out of LIEEP is too slow - request
16 proposal for expedited roll-out of LIEEP which addresses
17 costs/benefits/sources of funding

18

19 Inverted Rates

20

21 * delay inverted rates until DSM house in order
22 particularly for low income, tenants all electric
23 no competitive options

24

25 * Public Education Important (consider Weiss comments)

1 * preference all electric heat block

2

3 Differential Rate Increase

4

5 * With the exception of Roadway lighting reject

6 differential rates increase

7

8 (INSERT CONCLUDED)

9

10 THE CHAIRPERSON: That's fine. Thank
11 you. Okay, Ms. McCaffrey for MIPUG...?

12

13 FINAL SUBMISSIONS BY MIPUG:

14 MS. TAMARA MCCAFFREY: Thank you, very
15 much. Just -- just at the outset and follow-up to the
16 Vice Chair's questions and comments, right at -- MIPUG's
17 understanding is that Manitoba Hydro has withdrawn that
18 application or, in any event, they are not seeking
19 approval of that new rate from this Hearing.

20 And I understand also that they plan to
21 come back and file something else at some point, at the
22 appropriate time. And I don't want to make too many
23 assumptions as to what that would look like.

24 So with respect to Mr. Williams' comment,
25 if -- if he does come back and file something in writing

1 tomorrow, I -- I would like to reserve the right to, of
2 course, review it. And if we have anything to follow up,
3 I'd like the opportunity to do so.

4 THE CHAIRPERSON: Fair enough.

5 MS. TAMARA MCCAFFREY: But I don't plan
6 to walk down the road of the withdrawn, in my view,
7 industrial rate proposal. And that's the reason that
8 we've taken this approach, given Ms. Ramage's comments on
9 the record. And I believe I've clarified with Ms. Ramage
10 offline as well, just to make sure that my understanding
11 was -- was correct.

12 THE CHAIRPERSON: Yes, we recall Ms.
13 Ramage's comments as well.

14 MS. PATTI RAMAGE: If it might help, Mr.
15 Chairman and Ms. McCaffrey, I -- I don't know technically
16 if we would refer to the term "withdrawn."

17 But I think it's safe to say that Manitoba
18 Hydro wasn't looking for any -- any direction from the
19 Board at that point and is really going to be revisiting
20 its proposal.

21 THE CHAIRPERSON: Thank you, Ms. Ramage.

22

23 CONTINUED BY MS. TAMARA MCCAFFREY:

24 MS. TAMARA MCCAFFREY: Now, I can tell
25 you, I don't think there's too many in the room that have

1 as much support as I do. Perhaps the Board, perhaps
2 Hydro. And, because of that, I have a very large book of
3 written argument, containing some thirty-five (35)
4 issues, thirty-one (31) of which, or thirty (30) of which
5 were -- were raised by yourself, Mr. -- Mr. Chair.

6 What I propose to do, because this is
7 written argument with respect to each of these issues,
8 but they also do provide in some cases some attachments -
9 - an excerpt from a transcript referred to perhaps or a
10 document. And I think the easiest way to manage that
11 evidence, in conversation with Board counsel, would be to
12 have this marked as an Exhibit -- MIPUG Exhibit-16 --
13 or 17. Thank you, Mr. Peters.

14 And that the argument form part of the
15 record, I think that you'll find that there -- that the
16 consultants at InterGroup who assist MIPUG with our --
17 with the intervention haven't been sleeping much over the
18 past few weeks, in terms of trying -- working very, very
19 hard to try and assist the Board with respect to each of
20 the issues that the Board indicated was on its mind. And
21 we hope that it's helpful to you.

22 My closing submissions, probably to the
23 relief of all, will be briefer. Will not -- I don't
24 propose to go through all thirty-five (35) issues here.
25 They're -- they're written. They're succinct, and the

1 references are there before you.

2 What I will do is focus on the key areas:
3 revenue requirement, whether the rate increase is
4 merited, some costs of service and rate design issues,
5 and, of course, the evolution of regulation as we see it,
6 with respect to the reserves.

7 So there are a few other issues as well
8 that I will deal with. But, at the outset I don't plan
9 to go through all thirty-five (35) tabs of the -- of the
10 written submissions.

11 THE CHAIRPERSON: Okay, then we will take
12 it as MIPUG Exhibit Number 17.

13

14 --- EXHIBIT NO. MIPUG-17: MIPUG written submissions

15

16 CONTINUED BY MS. TAMARA MCCAFFREY:

17 MS. TAMARA MCCAFFREY: Thank you.

18 At the outset, in a regulated monopoly, of
19 course, the regulator stands in the place of the market.
20 And the purpose and the jurisdiction that you've been
21 given is to approve Manitoba Hydro's rates that are just
22 and reasonable, pursuant to Section 77(a) of the Public
23 Utility Act dealing with the just and reasonable
24 criteria; and also informed by Section 26 of part 4 of
25 the Crown Corporation Public Review and Accountability

1 Act; as well as Sections of the Manitoba Hydro Act,
2 Sections 39 -- for example, prices payable for power
3 supplied by the corporations to return to it the cost of
4 supplying power and so on.

5 I won't go through all the -- the
6 legislative provisions. Everyone in the room is well
7 familiar with them, especially this Board.

8 When looking at just and reasonable rates,
9 of course, a regulatory convention is that long-term
10 stability and predictability are -- are very important
11 goals in this rate setting context.

12 As Justice Monnin of the Court of Appeal
13 indicated in a -- in a recent decision of 2005:

14 "The -- in approving rates that are
15 fair, the regulator must balance the
16 interest of rate payers with the
17 financial health of the utility. And
18 together, these interests represent the
19 general public interest."

20 On the subject of revenue requirement,
21 Manitoba Hydro's indicated that it requires the requested
22 funds, some 29.6 million, in order to continue to make
23 progress towards its financial targets, in particular the
24 75/25 debt/equity ratio.

25 You may recall that in MIPUG Exhibit 7,

1 which we reviewed with Manitoba Hydro, we looked at the
2 IFF-02 and compared that to the IFF-07 to -- in order to
3 examine what's changed and where we're at today.

4 In the IFF-02, it was predicted that
5 Manitoba Hydro would achieve the 75 debt -- 25
6 debt/equity ratio target by 2011/'12.

7 IFF-07, of course, we -- we do not reach
8 it in 2011/'12, nor do we reach it at anytime in the
9 horizon of this IFF.

10 Retained earnings were higher than what
11 was forecast to be in '02, both now and in the 2012 test
12 year that we reviewed.

13 Debt ratios were actually a bit better off
14 in '07/'08 today than -- than were forecast. Although a
15 few years out, 2011/'12, based on the '07 forecast, debt
16 ratios are expected to be 3 percent higher than were
17 forecast to be in the '02 IFF.

18 Total revenues -- quite a bit higher than
19 in the '02 IFF, for both the '07/'08 and '11/'12 test
20 years. We know there's more plant in service now than --
21 then what was assumed in '02.

22 And when Mr. Bowman took you through the
23 pre-filed evidence, they examined each of the rationales
24 given by Manitoba Hydro in support of their assertion
25 that further rate increases are required against that

1 back drop of comparison.

2 One of the rationales was the drought.
3 Was that a valid reason? No, because the utility had
4 completely recovered by '07/'08.

5 How about the government payment? No,
6 because actually what was paid was less than was forecast
7 in the '02 forecast, which, as we know, saw the utility
8 reaching their debt/equity target.

9 Increase load, lower than average rate
10 increases? No. Overall, revenues were higher even
11 without the proposed new industrial load rate, as were
12 overall rate increases. And the transcript reference,
13 Mr. Bowman's evidence, page 3274 and 75.

14 OM&A, an area which also has a material
15 impact on the Corporation's ability to achieve its
16 financial targets, seems to be poorly controlled. In the
17 years reviewed, we've seen an upward shift in OM&A
18 spending year after year -- \$250 million impact over the
19 relevant period in fact, a 3 percent impact on the
20 debt/equity ratio.

21 In fact, if O&M&A growth had been kept to
22 the pace that was forecast in 2002, there would be no
23 need for a rate increase today, because the '02 forecast
24 of approximately 326 million for '07/'08 versus the 360
25 million that we're hearing Hydro requires today -- a \$34

1 million difference, which exceeds the revenue being
2 sought in this rate application.

3 The Coalition witness, Mr. Harper, also
4 agreed and discussed this in his evidence at page 18. He
5 also indicated that his evidence was essentially that the
6 OM&A spending has not been as efficient as it should be.
7 It's exceeded its forecast over the relevant period, and
8 he would recommend that the Board reflect this in terms
9 of a downward adjustment to the rate increases being
10 sought.

11 You can -- this goes in some further
12 detail at -- at the Tab 3 of our written submissions as
13 well as item Number 21. And with respect to Exhibits
14 PUB/MIPUG-12 and the MIPUG pre-filed evidence Attachment
15 B all review the issue of OM&A spending. So this was one
16 area, in fact, that did seem to bear out as to why
17 Hydro's back before you seeking increased revenue.

18 The second factor, increased capital
19 spending, as Mr. Bowman put it, "bears out in spades,"
20 page 3276 -- 3278 of -- of the transcript.

21 Well, Wuskwatim we see is likely becoming
22 a factor driving rate increases. Both Mr. Harper, and
23 Mr. Bowman, and McLaren agree on that point.

24 We are seeing that new development is
25 having an enormous impact on debt/equity ratios. And

1 with respect to this IFF and the new development we're
2 seeing in that horizon, not even taking into account
3 what's just beyond that horizon, it's keeping the target
4 out of reach for the period that the IFF deals with.

5 And, of course, we know Conawapa and
6 Keeyask, just a couple of years beyond the range of the
7 IFF, is bringing in again further potential massive
8 impacts.

9 At page 3282 of the transcript, Mr. Bowman
10 discussed this issue and indicated in terms of the
11 overwhelming impact that this new generation has on
12 debt/equity ratios, that when we take into account the
13 new generation of Conawapa and Keeyask, we're looking at
14 something like \$6 billion in equity would be actually
15 required to reach the 25 percent target.

16 And is this linked to the purposes for
17 which reserves are -- are intended which is rate
18 stabilization and meeting of extraordinary contingencies?
19 MIPUG's evidence was that there's an insufficient
20 linkage.

21 In this climate of massive capital
22 extension, the debt/equity target is not likely to be
23 attained any time in the planning future. To hold it out
24 as the basis for rate increases year after year makes me
25 think of holding a carrot out at the end of a pole in

1 order to get the donkey to move in the old -- in the old
2 movies. The donkey may move, the carrot remains out of
3 reach, and never actually reached.

4 MR. ROBERT MAYER: Who's the donkey?

5

6 CONTINUED BY MS. TAMARA MCCAFFREY:

7 MS. TAMARA MCCAFFREY: When I jotted down
8 these comments, I -- I considered leaving that out, but -
9 - but the image stayed with me throughout this whole
10 Hearing -- this notion of moving towards that carrot.
11 But you're never going to get that carrot, not if we're
12 using the wrong tool. If we're not achieving the target,
13 how can it be considered meaningful in the context of
14 setting rates.

15 In terms of a predictable and stable rate
16 regime over the long term, it is not. It is not a
17 meaningful target for the purpose of setting rates.
18 Meaningful for lots of other purposes, but in this room,
19 for the purposes of regulation, it's not getting us
20 there. The current approach is showing a trend of rate
21 requests -- requests as erratic and unpredictable as
22 water flows themselves.

23 MIPUG members have always stressed the
24 importance of a stable and predictable rate regime to
25 their industries. You've heard that in this Hearing and

1 in others in their presentations. This is even more
2 important in terms of the financial climate in which the
3 utility exists with a growing shift towards exp -- export
4 sales.

5 So we have the dilemma of the regulator,
6 on the one hand, of costs are not being prudently
7 incurred or if there's no evidence to substantiate
8 whether the costs -- for example, perhaps head office
9 costs at 18.75 million, for example -- are prudent or
10 being offset by savings so as to be revenue-neutral,
11 well, the Board could disallow them through the rates
12 approved.

13 There's some discussion of this issue in
14 the MIPUG written argument under Public Utility Board's
15 issue Number 24, at Tab 24. However, in a Crown monopoly
16 regulated context, the customer's interest in being
17 protected from unreasonable charges or costs must also be
18 balanced with the financial health of the utility. And
19 the balancing the two, as I've indicated before, are the
20 public interests which the regulator must protect.

21 Now, certain items, of course, such as
22 charitable donations and sponsorship, which the Chair
23 raised in item Number 13 and is discussed at Tab 13 of
24 our written submissions, are a horse of a different
25 colour. In this particular case, they're not material.

1 Around 3 million a year and, because of that, in
2 principle, MIPUG takes the position that they would not
3 be disallowed, and there's some discussion of that. But
4 in principle there's no adjustment required here in this
5 Hearing, given the small amount involved.

6 But for regulation to be meaningful, the
7 role of the regulator cannot be diminished to the point
8 of being compelled to rubber-stamp all costs incurred by
9 the utility, capital, OM&A or otherwise. Of course not.
10 What would be the point then?

11 With the requested rate increase, Manitoba
12 Hydro was targeting an interest coverage ratio of 1.29.
13 Yet their target is actually 1.2, which is surpassed, we
14 know, without any rate increase. So there seems to be a
15 basis for an argument that the rate increase could be in
16 fact lower than what's being requested by the utility.

17 However, in this proceeding MIPUG does not
18 oppose Manitoba Hydro receiving the 29.6 million that
19 they're seeking. And in fact, our recommendations are
20 essentially that differential rate increases be given --
21 and there's a discussion of this which I'll go to further
22 at PUB issue Number 15, our Tab 15 -- and a second
23 revenue-neutral rate adjustment each and every year,
24 unless Manitoba Hydro comes back with another GRA, to
25 bring the classes to within the zone of reasonableness

1 within five (5) years. Again, why have a goal -- a
2 target of getting there if one does not actually take
3 steps to achieving it?

4 Secondly, MIPUG recommends that revenue be
5 allowed in the rates as its level requested, that it's
6 contingent upon Manitoba Hydro developing reserves for
7 the purpose of rate stabilization and meeting
8 extraordinary contingencies. The legislative parameters
9 for that are already established and have long been in
10 place in Section 40(1) of the Manitoba Hydro Act. And,
11 again, there's further discussion of this which I'll deal
12 with at issue Number 9.

13 Now, as discussed in our written
14 submissions under Tab 3, MIPUG's not opposing the amount
15 of the increase revenue, recognising that there is a
16 potential need for a transition to a new rate level in
17 the current expansionary environment. This transition
18 should be measured and predictable to enhance the
19 stability of rates over the long term.

20 Looking ahead, to develop a stable and
21 predictable rate setting regime in an area of massive
22 capital expansion requires some evolution. So how do we
23 resolve the regulator's dilemma? We need to develop
24 improved regulatory checks on Hydro through rate
25 regulation if it is to be meaningful and more than a

1 rubber-stamping of costs for fear of risking adverse
2 impacts on the financial health of the utility.

3 Mr. Williams also indicated that the
4 Coalition and Mr. Harp -- Mr. Harper also accept that
5 simple continued increases to domestic rate levels do not
6 provide assurance of actual improvements in retained
7 earnings. They don't provide assurance that those
8 reserves that are contemplated under Section 40(1) of the
9 Manitoba Hydro Act for the purposes of rates
10 stabilization and meeting extraordinary contingencies are
11 going to be there in this expansionary environment.

12 Development of the right kind of reserve
13 mechanism funded as a charge against Hydro's rate, net
14 expert revenue levels can do this and should be pursued.

15 Manitoba Hydro has dismissed a reserve
16 concept as outdated. We know they tried it before. We
17 know they're not doing it anymore. And in fact, they
18 suggested that British Columbia had rescinded their
19 reserve provision.

20 Now, that's not accurate. And -- and we
21 explain that at page -- Tab 10 at page 10-5 of our
22 written submission, because in fact, what BC Hydro did
23 was simply replace their former mechanism with the
24 heritage deferral account, which is a regulatory account
25 to stabilize rates in the face of -- of swings in water

1 flows.

2 What relevance does the fact that Manitoba
3 Hydro used to do this and no longer does it anymore --
4 some ten (10) -- fifteen (15) years ago -- have on
5 developing an appropriate reserve mechanism today in an
6 area of -- in an era of massive capital growth, far
7 greater risks associated with this and increasing risks
8 associated with Manitoba Hydro's export sales? None.

9 The Board has expressed interest in this -
10 - in this concept in each of the last two (2) major rate
11 revisions. There's all kinds of ways to think about
12 developing this, as Mr. Bowman stated. It's a creative
13 exercise. Surely, the ingenuity that is present in this
14 room is up to the task. It is time for the Public
15 Utility Board to strongly and specifically prescribe that
16 Manitoba Hydro take specific steps with respect to the
17 creation of appropriate reserves to ensure that these
18 reserves are going to be in place when in fact they are
19 required.

20 Options exist, and it's developed further
21 in the PUB/MIPUG-IR-6 and MIPUG Exhibit 14, which we went
22 through in the -- while Mr. Bowman and Mr. McLaren were
23 on the stand, and further references that you can find at
24 Tab 10 at pages 10-3 to 10-4 of the written submissions.

25 The legislative framework exists.

1 Sections 40(1) of the Act specifically contemplates this.
2 Section 40(2) specifically contemplates reserves again
3 being used for rate stabilization. It is silent on the
4 precise mechanism, but the legislative intent is clear.
5 Reserves are supposed to be there for the rate
6 stabilization and in the event of meeting significant
7 contingencies and risks.

8 The Manitoba Hydro current method of using
9 retained earnings as a basis to this does not ensure this
10 result. We have a frenetic series of rate requests and
11 withdrawals of requests, sometimes within a month, as Mr.
12 Bowman's testified. A rate setting regime that varies
13 rate approvals but the fluctuations in water flow is
14 quite unheard of in a regulated context, transcript pages
15 3291 and -- and 3292.

16 Manitoba Hydro is coming back and forth
17 before you based on good or negative water flows. MIPUG
18 industries are concerned as to this recent trend in terms
19 of the rate requests.

20 I recently taught my little boy to ride a
21 two (2) wheeler. And you know, at first he would look
22 down at his feet and he'd zig zag all over the road. But
23 the trick is, as we may remember, is when you look
24 further down the road, you'll have a much straighter
25 ride.

1 That's what MIPUG is trying to do here
2 with respect to this concept of reserves. It's looking
3 further down the road. It's looking at the issue of
4 capital expansion and the implication to the end of the
5 IFF, beyond the IFF, in the -- in the near future beyond
6 the IFF.

7 The potential impacts of that are
8 enormous, and it changes the way we have to think about
9 the use of the debt/equity target in the rate setting
10 context. If the Public Utility Board agrees with MIPUG's
11 position on this then it is incumbent upon you to direct
12 that the reserves are going to be there to stabilize
13 rates in the event of major risks.

14

15 (BRIEF PAUSE)

16

17 MS. TAMARA MCCAFFREY: MIPUG is urging
18 you to adopt a reserve provision concept today,
19 mechanisms to be refined at a special hearing, direct
20 that at this Hearing a review of Manitoba Hydro's risks,
21 long-term reserves levels associated with those risks --
22 not just the percentage, but rather a -- a logical link
23 with the -- the risks themselves. And this should be
24 informed by Manitoba Hydro's capital expansion plans.

25 As we indicate in our written submissions

1 at page 10-5, given Hydro's poor record in responding to
2 this, a general form of directive with respect to
3 reserves and risk assessments in the past, it is apparent
4 that any studies or analysis by Hydro intended to
5 initiate the stated review must be guided by a more
6 prescriptive set of requirements and scope issued by this
7 Board.

8 Another form of evolution with respect to
9 the regulatory environment is concerned with the issue of
10 capital oversight by this Board. Mr. Chair raised this
11 in issue Number 19, and there's some discussion provided
12 by MIPUG for your review at that tab of our written
13 submissions.

14 MIPUG would support a recommendation for
15 legislative change with respect to capital oversight.
16 And as well, we note that in other regulations the type
17 of legislative indicator achieves this through a
18 certificate of public necessity. And that might be one
19 option that this Board consider in terms of making
20 recommendations to the Minister.

21 Alternatively, we echo the Coalition's
22 recommendation that a comprehensive review of Manitoba
23 Hydro's major capital projects, such as was done by order
24 in council in 1990/177 which looked at the capital
25 projects between the period of 1990 and 2009, take place.

1 in this framework, my comments earlier apply here. You
2 should not feel compelled to compensate Manitoba Hydro
3 for all capital spending regardless of whether the Public
4 Utility Board deems it prudent or not. Such would be
5 tantamount to rubber stamping and would completely
6 neutralize the public interest objection of regulation.

7 Moving on to the subject of sinking funds,
8 Manitoba Hydro -- we recommend that they pursue this
9 without delay given the capital spending forecast. To do
10 so would enhance Manitoba Hydro's net income by
11 approximately \$93 million over the IFF period. And
12 there's some discussion of this issue at Tab 34 of our
13 written submissions.

14 We already have Hydro's acknowledgement
15 that it's not as necessary as it used to be. There's no
16 reason to delay with respect to the evidence. And we
17 would recommend that Manitoba Hydro be directed to pursue
18 this sooner rather than later.

19 On the subject of DSM, MIPUG takes the
20 position that the Hydro should pursue all cost-effective
21 -- that is relative to the marginal cost of acquiring
22 power resources -- DSM, including removing the
23 requirement for non-utility generation customers to
24 displace 100 percent of their own load before receiving
25 the benefit of the kinds of pricing that are closer to

1 that which Manitoba Hydro pays for other suppliers, as
2 wind and imports.

3 The customer economic impact should be
4 discarded as a threshold test in favour of giving
5 customers all the relevant information and allowing them
6 to make informed decisions as to whether to pursue DSM.

7 DSM should be viewed as a cost-effective
8 means of acquiring power resources. And therefore, its
9 economic should be evaluated in a manner similar to that
10 employed for new generation.

11 MIPUG is concerned that Manitoba Hydro's
12 present DSM approach is screening out a lot of
13 opportunities that should be pursued in this area. And
14 there's some further discussion that can be found at Tab
15 27 of our written submissions.

16 On the subject of cost of service,
17 Manitoba Hydro should be directed to correct the double
18 counting of DSM energy by removing it from the export
19 class.

20 The customer should be receiving the
21 benefits of the DSM it participated in. Hydro's method
22 results in greater cost. And in fact, for the
23 residential class, the cost are the highest -- some \$9
24 million in costs, as you heard from Mr. Bowman -- for the
25 residential class alone, but all classes see an increase

1 in costs. This is the opposite signal one would want in
2 order to encourage customer participation in DSM.

3 Aside from the double-counting issue, the
4 present cost of service model is a useful regulatory tool
5 which the Board can rely on in setting rates.

6 At Tab 15 of the written submission, and
7 dealing with the Utilization Cost Service Study and the
8 Chairman's issues 15, 16 and 25, you see again the MIPUG
9 recommendation for the differential rate increases.

10 MIPUG points out that all variations of
11 the Cost of Service Study that the Public Utility Board
12 indicated that they wanted to look at in their Order
13 117/'06 had been reviewed and presented by MIPUG
14 witnesses. And all pre- and post-expert allocation and
15 marginal cost indicate that differential rate increases
16 are merited.

17 On the subject of marginal cost, we note
18 and remind you that the evidence, with respect to the
19 equiproportional marginal cost approach -- which is to
20 say the least, infrequently used in the cost of service
21 context -- is used even and only then in the context of
22 separate and unbundled functions, such as distribution
23 generation, as opposed to all bundled together, which
24 gives you a -- a significantly different result.

25 That's not really the way -- the way that

1 the Coalition recommends -- it's not really the way that
2 it's done in the utilities, that we're aware of, that use
3 an equiproportional marginal cost -- cost of service.
4 And there -- there are very few of them, as Mr. Harper
5 also acknowledged.

6 Embedded costs and the cost of service is
7 the one that -- that's certainly used the most. And --
8 and it avoids some of the difficulties surrounding the
9 ability to test the Manitoba Hydro's methodology for
10 determining marginal cost, also acknowledged by Mr.
11 Harper when we cross-examined him on this issue.

12 With respect to rate design, Manitoba --
13 or Manitoba Industrial Power Users Group -- recommends
14 that Manitoba Hydro be directed to develop an inverted
15 rate structure for industrials that provides the type of
16 price signals that allow a customer to respond and to see
17 the benefits of doing so.

18 As Mr. Bowman noted at page 3369 of the
19 transcript:

20 "Inverted rates can affect all of the
21 customers, not just a few, all of the
22 customers, all load on the system."

23 Properly designed, they're revenue-neutral
24 to the customer, which lessens the importance of testing
25 the marginal cost price forecast, an issue fraught with

1 mystery, as we canvas with Mr. Surminski in our cross-
2 examination, prior to the withdrawal of Manitoba Hydro's
3 --

4 MR. ROBERT MAYER: Whatever.

5

6 CONTINUED BY MS. TAMARA MCCAFFREY:

7 MS. TAMARA MCCAFFREY: -- or the --
8 however you want to define it -- of the -- of the
9 industrial rate proposal.

10 The right type of price signal,
11 particularly to industrial customers, gives the potential
12 to affect far more load than what was suggested in this
13 former proposal. And Mr. Bowman talked about that at
14 page 3362-3363 of the transcript.

15 In a climate of increased load arising
16 from various fronts, including from a risk of fuel
17 switching as natural gas prices continue to climb,
18 developing inverted rates and potentially seasonal time-
19 of-use rates and other modern rate design options make
20 sense. And it's imperative that Hydro get on with it.

21 In the greater than 100 kilovolt class
22 there is potentially six (6) terrawatt hours of load,
23 prices for which industry pays attention to and will
24 respond to the appropriate signals. The opportunity here
25 is enormous in terms of price signals to encourage

1 conservation and efficiency, valid regulatory goals.

2 DSM opportunities and greater incentives
3 for non-utility generation from existing customers exist.
4 On the other side of this increased price sensitivity is
5 that the wrong price signal can have negative impacts --
6 far greater, potentially negative impacts -- on industry
7 could put a company, in fact, out of business than it
8 would in some other customer classes. So it's important
9 that the right signal be developed and as soon as
10 possible.

11 MIPUG would like this Board to provide a
12 strong directive to Manitoba Hydro to develop within the
13 twelve (12) to eighteen (18) month time frame that Hydro
14 indicated it would take modern rate designs using
15 inverted rates that are revenue-neutral to the customer.

16 And also MIPUG recommends considering the
17 potential of seasonal time-of-use rates, all of which
18 again have the valid regulatory objective of promoting
19 efficiency and conservation in terms of the use and
20 power. That gives every customer the right price signal
21 on every kilowatt hour.

22 With respect to the seasonal rates, an
23 example would be a customer with an ability to load
24 shift. It could recognize the increased value that, for
25 example, summer power, if a customer could -- could lower

1 their load in the summer, has the Manitoba Hydro system -
2 - it would freed up more power at a time when that power
3 has it -- has greater value.

4 If the right type of rate was developed,
5 the cost to the customer would reflect that. They'd be
6 lower. It's an improvement over the winter ratchet,
7 which sends too strong a price signal for some and none
8 to others, and it's a win-win situation.

9 In terms of non-utility generation, as
10 I've indicated before, we'd like to see that that policy
11 of displacing a 100 percent of their own load first be
12 changed to be fairer to Manitoba Hydro's customers with
13 this generation potential. Why should an existing
14 customer be worse off than a wind generator in Manitoba?
15 The latter has to compete with the export market type
16 pricing.

17 Well, Manitoba Hydro's customer with non-
18 utility generation potential -- with generation potential
19 must compete with Grand Rapids or Pointe du Bois type
20 prices. Mr. Bowman discussed that at page 3365 of the
21 transcript.

22 This contradicts Manitoba Hydro's stated
23 objective of obtaining or freeing up additional resources
24 to capture exports. Why not? When the power resource
25 can be obtained for a price better than marginal cost,

1 why not pursue it?

2 The concept of industrial load growth
3 having an adverse impact on all customer classes was
4 raised by the Chair at issue Number 7, and it's discussed
5 in our written submissions under tab of the same number.

6 MIPUG's position is this is not valid as a
7 regulatory construct. It's not a valid regulatory
8 premise for rate making. It singles out industrial load
9 growth in a situation where essentially the same is true
10 of all customer classes for virtually every regulated
11 utility in existence.

12 Load growth by any customer class requires
13 the addition of new resources whose cost is higher than
14 the existing average. And Mr. Williams talked about this
15 and framed it in sort of a -- the context of the -- the
16 adverse impact, and I want to take you through that a
17 little bit. And I want to challenge that notion and
18 question that notion as -- whether this, in fact, is an
19 adverse impact. Let's look at it.

20 Growth of load by any class results in the
21 need for all customers to experience increased rates to
22 support the addition of new higher cost generation --
23 true of any load growth, whether residential, electric
24 heating, fuel switching from natural gas to electricity,
25 or industrial -- could impact on the amount of load

1 available for exports or resulting in adding new higher
2 cost generation. These may raise average rates -- may.

3 I say that because there would have to be
4 some detailed consideration supported by data, which
5 isn't here in this proceeding, such as, in the short
6 term, timeline constraints. Well, we know they can
7 result in less export value and, therefore, the impact on
8 Manitoba Hydro revenues from "foregone exports," -- and I
9 put that in quotation marks -- is greatly diminished.

10 Considerations regarding time the power is
11 used would also be necessary, and we know that off-peak
12 exports are much less valuable and can be certainly below
13 domestic prices. In the long term, the notion of whether
14 the need for additional new generation as a result of
15 load growth is even a problem requiring a regulatory
16 solution needs to be questioned.

17 Consider that advancing new generation
18 today for domestic load helps put in place low-cost
19 assets built in today's dollars. Just as today's
20 heritage assets may be credited to past development,
21 future low-cost generation will depend on assets that are
22 put in place today.

23 There's been this notion that this is a
24 bad thing. It's not necessarily a bad thing. In fact,
25 MIPUG would argue there's some benefit to that.

1 Chair, issue Number 8, and at our Tab 8 of our written
2 submissions, the process for hearing regarding the
3 industrial rate proposal, MIPUG would like Manitoba Hydro
4 to be able to take whatever time is required to do this
5 right, to do this well, including additional
6 consultations with interested parties which they have
7 been -- Ms. Ramage indicated they were interested in
8 pursuing.

9 Again, there's no requirement for the
10 Board to feel that they must impose any deadlines now.
11 The applicant, I'm sure, will be dealing with this issue
12 with all the energies they can muster once they've
13 recover -- recovered from this General Rate Application.

14 Any potential prejudice, with respect to
15 timing, can be addressed, and MIPUG would certainly
16 support any measures being put in place to ensure that no
17 one would benefit from this so-called "gaming the
18 system," increasing the load based on getting benefits
19 before any kind of benchmark is put in place.

20 Once the applications's filed, at that
21 point, a pre-hearing conference should take place to
22 review the process options. And the options, again,
23 could include potentially a technical conference under
24 Section 11 of the Public Utility Board rule, and other
25 issues. But all of that could be canvassed and would be

1 canvassed, in our view, at a pre-hearing conference once
2 the new application is filed.

3 With respect to the service extension
4 policy, now this is a -- one that actually wasn't raised
5 by yourself, Mr. Chair, but MIPUG has addressed it at Tab
6 32 of the written submissions. It's a very interesting
7 issue.

8 You recall that the service extension
9 policy -- which essentially was described, I think, by
10 Mr. Wiens -- as Manitoba Hydro's long-standing policy of
11 contributing up to three (3) times the expected annual
12 revenue from a customer of the costs that it would take
13 to supply that customer with power provided it -- it
14 extended the grid or enhanced the grid, if I'm putting it
15 correctly.

16 Now I think that the Public Utility Board
17 was somewhat surprised when they learned that this was
18 suspended by Manitoba Hydro unilaterally in 2005. In
19 fact, I think this came up at the Cost of Service Hearing
20 in 2006 as Mr. Mayer may recall. Comments were made that
21 the Board -- by the Chairman and by the Vice Chair --
22 that the Board certainly expected that Hydro would come
23 before them if they seek to change the rates. And then
24 the issue went underground.

25 And in this Hearing, we've raised it again

1 following the cross-examination by Board counsel on this
2 subject, excerpts of which we provided at Tab 32 of our
3 written submissions for you to review the transcript on
4 your own.

5 MIPUG's position is that suspending that
6 policy is without legal authority. The utility didn't
7 have a legal basis to do that. It means that the
8 customers must now pay more for service extension costs
9 than they did under that policy. Now we know the Public
10 Utility Board has the sole jurisdiction to approve
11 Hydro's rates for services where they're just and
12 reasonable.

13 Part IV, Crown Corporation Public Review
14 and Accountability Act, Section 26(1):

15 "No change in rates for services and no
16 new rates for services shall be made or
17 introduced without the approval of the
18 Public Utilities Board."

19 Rates for services, are they defined as
20 the price per kilowatt hour in the rate schedule? They
21 are not. How does the legislation define them? They
22 relate to the prices charged for the provision of power,
23 Section 26(2) the CCPRA. Power is defined in the
24 Manitoba Hydro Act to be electrical power, howsoever
25 generated.

1 The terms and conditions of service are
2 directly relevant to whether the rate for service is just
3 and reasonable. And again, Section 26 talks specifically
4 about rates for services. That makes sense.

5 That's why, of course, the Public Utility
6 Board requires that no change to the terms and conditions
7 of the curtailable rates program, for example -- the
8 surplus energy program, for another -- are changed
9 without Board approval. We've provided references for
10 you, page 2, Tab 32 of our written submissions.

11 The customer's paying increased costs,
12 with respect to the provision of power, and that has not
13 been approved by the Public Utility Board. Manitoba
14 Hydro is seeing increased revenue, and it doesn't matter
15 if it's one dollar (\$1) or a million. There's no legal
16 authority for it.

17 Mr. Wiens confirmed, and the transcript
18 references again are at Tab 32, that customers have come,
19 and they have paid more to get that power,
20 notwithstanding the suspension of the policy as a result
21 of this unilateral suspension. The money amount's
22 irrelevant.

23 On principle -- and I'm not saying that a
24 MIPUG member has been affected by this directly, but in
25 principle -- they cannot do indirectly what they're not

1 capital extensions then?

2 MS. TAMARA MCCAFFREY: Capital extension
3 -- if the customer is paying those costs -- doesn't
4 matter that it's capital, it's resulting in a -- in a
5 revenue to the Utility while getting around the Public
6 Utility Board. There's an increased revenue there. The
7 capital -- you can't -- for Hydro to say, Well, it's
8 capital, hang on. It's capital. This is a separate
9 area. Is it prices paid for the provision of power?
10 Yes. Is it a material term or condition of the service
11 of providing the power? Absolutely.

12 I can't see any legal basis on which this
13 cannot come before the Public Utility Board. This is
14 squarely within your jurisdiction, in MIPUG's respectful
15 view.

16 MR. ROBERT MAYER: I have your position.
17 Thank you, very much.

18

19 CONTINUED BY MS. TAMARA MCCAFFREY:

20 MS. TAMARA MCCAFFREY: Now MIPUG does
21 offer suggestions in written submissions under that tab.
22 And the Public Utility Board may wish to discuss this
23 further with Board counsel.

24 MIPUG takes the position that this Board
25 has to defend its jurisdiction -- the defendant's

1 jurisdiction in principle -- when there's no legal basis
2 for charging prices for the provision of power as Hydro's
3 doing when they suspended this policy.

4 MIPUG would suggest that an option to the
5 Board is to make a declaration that that suspension is in
6 fact invalid, order that either an accounting of costs
7 paid since the suspension of the policy be provided to
8 the Board, or -- and/or the Board could order or that
9 Hydro refund the amounts improperly charged from its
10 utilities customers as a result of that suspension.

11 And I think you can do that pursuant to
12 your powers under a number of different sections. But,
13 just to highlight them for the sake of your counsel and
14 your -- your review into this if I've persuaded you to do
15 so -- Section 24(4) the Public Utility Act, which
16 provides that for the enforcements of your orders and all
17 other matters necessary or proper for the due exercise of
18 your powers or, otherwise, for carrying out any of the
19 Public Utility Board's powers into effect, the Public
20 Utility Board does have all such powers, rights, and
21 privileges as are vested in the Court of Queen's Bench or
22 a judge thereof.

23 Also in Section 28(11), in matters within
24 jurisdiction, power to require the owner of a public
25 utility to do anything which required to do under the

1 Public Utility Act or any other act of the legislature is
2 provided.

3 Of course, Public Utility Board can also
4 initiate an inquiry into the matter is another option.
5 And your authority for that, I'm sure you know, is
6 Section 27(1) of your Act.

7 And, in any event, the Board must take
8 action to protect its jurisdiction to approve rates.
9 Manitoba Hydro cannot do indirectly what it cannot do
10 directly: charge prices related to the provision of power
11 or change material conditions upon which a rate has been
12 approved, material terms and conditions of the service,
13 without the Board's approval.

14 And on that note, I'd like to ask the
15 Board if we might take a little break and I might confer
16 with Mr. Bowman here and review if whether there's any
17 additional points I'd like to make. But I -- I believe
18 I'm just about done.

19 THE CHAIRPERSON: That is just fine.
20 Thank you.

21

22 --- Upon recessing at 2:27 p.m.

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

24

25 THE CHAIRPERSON: Okay, Ms. McCaffrey,

1 you have another point?

2 MS. TAMARA MCCAFFREY: Yes, it's brief.
3 In conferring with Mr. Bowman, he pointed out to me, as a
4 much greater knowledge of Hydro system than I pretend to
5 have, Hydro does a lot of extensions, and I -- I don't
6 want there to be confusion about the position that we're
7 taking. We're not saying that Hydro has to come before
8 the Board for every single extension, every time they do
9 an extension, with respect to approval. We're talking
10 about approval of the policy itself here.

11 So I hope that clarifies our position in
12 case I had inadvertently created some confusion.

13 MR. DAVID CHIASSON: I think we
14 understood you. Thank you.

15 MS. TAMARA MCCAFFREY: Thank you very
16 much, and it's always a pleasure to -- to appear before
17 you. On behalf of MIPUG, we appreciate the -- the
18 thoughtful comments and issues laid out but the Public
19 Utility Board. That really assisted us in terms of what
20 to turn our mind to, and we hope the submissions are
21 helpful.

22 Just, if I could indicate to the Board, I
23 have -- I'd like to be excused. I have -- I have a
24 matter -- my little girl needs to be picked up. And I'm
25 -- the person who was supposed to do it has had some

1 emergency. So I'm -- I'm -- if it's all right with the
2 Board, I don't mean any disrespect to Mr. Gange. I hate
3 to miss his, I'm sure, eloquent argument, but I -- I'd
4 like to -- to slip out now if I may?

5 THE CHAIRPERSON: No need to worry. You
6 have done your job. Thank you, and thank you, Ms.
7 McCaffrey, you...

8 We were going to move to Mr. Anderson now.
9 I do not see him right now. Mr. Gange, are you prepared
10 to proceed?

11 MR. BILL GANGE: Yes, that's correct, Mr.
12 Chair, I am.

13 MR. ROBERT MAYER: Do we have any idea
14 where Mr. Anderson is?

15 MS. TAMARA MCCAFFREY: I -- I don't know
16 where he is, but he did indicate to me he was hoping to
17 argue on Friday. I don't know if he had discussions with
18 counsel.

19 MR. BOB PETERS: I've been in touch with
20 Mr. Anderson by email this afternoon and kept him
21 apprised of the proceedings. And I'm expecting him here
22 by 3:00.

23 THE CHAIRPERSON: Oh, very good, okay.
24 Mr. Gange...?

25 MR. BILL GANGE: Yes, thank you, Mr.

1 Chair. And I won't take offence at Ms. McCaffrey's
2 leaving. If I were in her shoes, I'd be doing the same
3 thing.

4

5 FINAL SUBMISSIONS BY RCM/TREE:

6 MR. BILL GANGE: Mr. Chair, I have
7 submitted or I've provided to Mr. Gaudreau, and I believe
8 that you have our written submission. I'm -- I'm going
9 to review it. I -- I hope it won't be too boring if I
10 just go through it. It's going to be -- I'm going to
11 follow it quite closely. There will be some deviation,
12 but not significantly.

13 I also provided and I believe that you
14 ought to have a one (1) page statement from the Toronto
15 Star newspaper --

16 THE CHAIRPERSON: Yes, we have it.

17 MR. BILL GANGE: -- and -- and Mr. Peters
18 -- in -- in discussions that I had with Mr. Peters, he
19 advised me that, in fact, he had received the actual
20 reasons for decision in the case that is in -- cited in
21 the Toronto Star.

22 I have made some copies of that decision.
23 And I -- I haven't attempted to make as many copies as
24 there are people here, but I've -- there's a significant
25 number. And -- and I -- I think -- I am going to make

1 reference to that case at some point during the -- during
2 my submission.

3 THE CHAIRPERSON: Thank you, Mr. Gange,
4 Mr. Gaudreau will help. Just one (1) for us because we
5 have it anyway. The main thing is to make sure they have
6 it.

7

8 (BRIEF PAUSE)

9

10 THE CHAIRPERSON: What we are saying, Mr.
11 Gange, is the Board has actually received copies of this
12 decision. And I am just telling Mr. Gaudreau there are
13 extra copies he needs, he can use ours since we have it.

14 Okay, sir.

15

16 CONTINUED BY MR. BILL GANGE:

17 MR. BILL GANGE: Thank you, Mr. Chair.
18 This General Rate Application comes before the Public
19 Utilities Board in a context of complex background
20 issues.

21 Despite Manitoba Hydro's DSM programs,
22 Manitoba Hydro's standard electric residential customers
23 are increasing their energy consumption by approximately
24 7 percent per year, while our neighbours in Saskatchewan
25 are reducing their electrical consumption by

1 approximately 3 percent per year. And the transcript
2 reference on that is page 742 and following.

3 Energy-intensive industry growth will have
4 a significant impact on other customers. Manitoba Hydro
5 has acted on the energy-intensive industry issue by
6 proposing a new rate for the general service large
7 category. The complexities of this rate calculation are,
8 however, subject to consideration by the Board in a
9 further hearing.

10 Manitoba Hydro is fac -- is facing
11 significant capital costs as major construction projects
12 will soon commence. These capital costs will be incurred
13 at a time when there is a high debt/equity ratio. Even
14 with the new construction programs, Manitoba Hydro is
15 forecasting energy shortages in the years 2009 to 2011
16 from accelerated load growth.

17 As in previous hearings, Resource
18 Conservation Manitoba, in time to respect earth's
19 ecosystems, are guided by principles of sustainability
20 and justice of the formulation of our positions and
21 believe that these principles should guide the Board as
22 well in its determination of the public interest.

23 These principles should be pursued in an
24 integrated manner. Sustainability is not just a
25 guideline for the environment department and justice for

1 the courts. We're the social welfare system. In
2 particular, both are relevant, in our view, to rate
3 setting.

4 This means that Manitoba Hydro should be
5 regarded not just as a deliverer of gas and electricity
6 commodities but as a provider of energy services to
7 customers and the province in a manner that reflects the
8 public interest.

9 Guidance regarding sustainability,
10 justice, and the public interest is contained in the
11 Manitoba Hydro Act, the Sustainable Development Act,
12 Manitoba Hydro's corporate strategic plan, and government
13 policies; such as provincial leadership and climate
14 change mitigation and the commitment to provide
15 affordable energy -- particularly for low-income, rural,
16 northern and senior people, as reflected in the creation
17 of the Affordable Energy Fund and in the Treasury Board
18 directive to the Ministers responsible for the PUB and
19 energy, science, and technology to explore opportunities
20 and develop alternatives to reduce energy costs for low-
21 income families.

22 Whereas in some jurisdictions, the
23 regulator's hands may be tied in its interpretation of
24 the public interest, in Manitoba the Board could not be
25 more unfettered. Section 26.4 of the Crown Corporations

1 Public Review and Accountability Act, provides to this
2 Board the legislative authority to take into account
3 those matters that the Board considers relevant in
4 determining the public interest.

5 Government, of course, can set direction
6 and legislation in policies, as mentioned above, but it
7 does not have to micro-manage in areas where it lacks the
8 requisite expertise and information that the Public
9 Utilities Board process attracts and elicits.

10 In addition, with respect to emergent
11 issues, government may take its inspiration from the
12 Board analysis and recommendations as it did in
13 legislating the Winter Heating Cost Control Act following
14 Board Order 135/'05 which highlighted the plight of
15 residential customers, especially low-income customers
16 facing a post-Katrina gas price spike.

17 Correspondence released in the current
18 process between the Minister responsible for Manitoba
19 Hydro and MIPUG indicates that government specifically
20 intends for Manitoba Hydro and the Public Utilities Board
21 process to address the issues and solutions related to
22 system and customer impacts of large new general service
23 loads, even though several parties believe that
24 government should have a role in devising or implementing
25 a solution.

1 In short, it is our view that the Board
2 has a sufficiently broad mandate to address all the
3 matters before it in the current process, both old and
4 emerging. It may be that for some matters like capital
5 expenditures, it can only make recommendations, but these
6 and the other matters are entirely relevant to the
7 assessment of the present and future financial health of
8 the Corporation, the sustainability and justice of its
9 policies, and operations and the determination of just
10 and reasonable rates.

11 Previously, the Board has ordered
12 attention to sustainability issues in rate design for
13 both economic and environmental considerations. And in
14 PUB Order 117/'06 at page 3, your Board stated:

15 "The Board seeks to assure itself that
16 Manitoba Hydro's rate design and rates
17 are consistent with the pursuit of the
18 environmental objectives of the
19 Sustainable Development Act."

20 As a further response to the risk that
21 higher domestic consumption poses for net income and
22 domestic rate levels, Manitoba Hydro is directed to bring
23 proposals forward to the Board to eliminate declining
24 block rate schedules and to introduce inverted and time-
25 of-use rates, initially for large volume, non-residential

1 customers.

2 Energy efficiency presents the potential
3 for a virtuous circle, wherein lower domestic consumption
4 results in reduced customer bills, higher Manitoba Hydro
5 aggregate net or export revenue and net income and lower
6 carbon emissions by Manitoba Hydro's American export
7 customers.

8 The Board has also ordered reports and
9 recommendations and other efficiency-related rate
10 reforms, including establishment of a new energy
11 intensive industry rate class, paying marginal costs of
12 supply, rebalancing energy and demand charges, and
13 elimination of the winter ratchet.

14 Again in 117/'06, the Board further
15 ordered that future cost of service filings should also
16 include supplemental information by customer class,
17 including approximate revenue/costs ratios related to the
18 inclusion of marginal cost information and the allocation
19 of notional environmental emissions costs.

20 The Board indicated that it would take the
21 marginal and environmental cost information into account
22 in addition to the embedded cost -- costs in setting
23 rates. And -- and again the Board stated to reiterate:

24 "The Board will consider the historic
25 embedded cost of COSS pre- and post-net

1 export RCC indices, together with
2 marginal and environmental cost
3 information and such other circumstances
4 and factors that it deems necessary in
5 its consideration of future rate
6 proposals. While zone of reasonableness
7 readings will be a consideration,
8 neither it nor the RFCC indices will be
9 the sole determinant of rates."

10 RCM and TREE wish to call the Board's
11 attention to four (4) significant issues raised in the
12 current proceeding:

13 Number 1, Hydro's electricity rates are no
14 longer the lowest on the continent.

15 Second, load growth continues to exceed
16 past projections with negative impacts on Hydro's
17 finances and customers and the environment.

18 Thirdly, 2004 was a watershed year between
19 unchanging rates and the prospect of a steady and
20 possibly steep incline. The old image of rate stability,
21 is unchanging rates that is declining in real terms at
22 the rate of inflation, must be shed.

23 Number 4, we are explaining -- exploring
24 for the first time the implications of a new COSS
25 methodology in a rate hearing.

1 That first issue, last year, because of
2 the raise -- rising value of the Canadian dollar against
3 the US dollar, Manitoba Hydro ceased to be the lowest
4 rate utility in North America. This breaks the spell of
5 a long-standing distinction of Manitoba Hydro and
6 provides an occasion to reflect on the appropriateness of
7 the lowest rates in North America target to meet the
8 exceptional value goal in the corporate strategic plan,
9 its potential harms as well as the presumed economic
10 benefits, and the possibility of more beneficial targets
11 for the Utility.

12 What targets within a context of
13 sustainable energy use would be more beneficial than
14 lowest rates? Since customers pay bills, not rates, a
15 more appropriate target would be low bills for customers
16 who use power efficiently. A complimentary target would
17 be to increase the efficiency of power usage by
18 customers, benchmarked by both Manitoba trends in usage
19 and comparisons with other jurisdictions.

20 Another term associated with exceptional
21 value is affordable energy. The concept of affordability
22 refers to the bills a customer must pay relative to their
23 ability to pay. Effective conservation programs lower
24 bills and thus make energy more affordable for all
25 customers.

1 But for many customers of sufficient
2 income, particularly if they are non-heating customers,
3 electrical affordability is not an issue, based on
4 anecdotal evidence of hearing participants or their
5 relatives who pay the bills.

6 To make energy affordable, it is important
7 to focus on customers' energy burdens and target the most
8 vulnerable with conservation and bill assistance as
9 discussed in the evidence of Messrs. Wiens, Chernick, and
10 Dunsky.

11 To measure energy affordability, Manitoba
12 Hydro needs to gather information on the energy burdens
13 of Manitobans and track the effectiveness of its program
14 to lower the number and extent of high and severe
15 burdens. Low average rates across the board are not a
16 sensitive measure of energy affordability if they ignore
17 measures of efficient use and ability to pay.

18 RCM/TREE's evidence in this proceeding,
19 summarized in the recommendations to follow, propose
20 rates and programs tailored to support the linked goals
21 of affordability and efficiency.

22 Secondly, one negative consequence of
23 suppressed electricity rates is a jump in load growth
24 beyond previous predictions which threatens the export
25 surplus, hastens the requirement to construct more costly

1 new plant for domestic use, escalates the value -- the
2 level of greenhouse gas emissions in North America, and
3 has the potential for an adverse impact -- impact on
4 Centra Gas if the flight from gas to electricity for
5 water and space heating continues.

6 For example, despite the best effort of
7 Manitoba Hydro's Power Smart programs, electrical usage
8 in Manitoba continues to climb at rates higher than
9 earlier forecast.

10 Wuskwatim, originally justified for
11 advanced construction to serve the export market, is now
12 required at the earliest possible in-service date for
13 domestic load. Moreover, the 2007/'08 power resource
14 plan identifies new energy deficits for the years
15 2009/'10 through 2011/'12.

16 This morning Mr. Williams had a
17 theoretical discussion of small elasticities in the
18 residential market. It is our view that -- that that
19 discussion must be set against the actual experience in
20 Manitoba where gas and electricity costs are converging.

21 You will recall that Mr. Chernick, in his
22 testimony, disagrees with the -- the studies that had
23 been presented with respect to elasticities. And it was
24 his view that -- that the studies that he had reviewed
25 would suggest that the elasticities are significantly

1 greater.

2 Secondly, the actual Manitoba experience
3 disagrees with that concept of small elasticities. The
4 subsidy for electricity that is currently in place, as a
5 result of the export revenues, makes the price so low
6 that the gas market rates as -- as established by -- by
7 Centra Gas means that -- that the electrical and the gas
8 rates are converging.

9 While the load growth for large industrial
10 users has the largest potential financial impact on the
11 Corporation and its customers, load growth in the non-
12 electric heat residential sector, at 7 percent per annum,
13 is a matter of concern. Our neighbours in Saskatchewan,
14 as I previously -- previously stated, are reducing their
15 electrical consumption by approximately 3 percent per
16 year.

17 The explanation for this difference that
18 was provided by Mr. Kuczek is that Saskatchewan
19 residential customers prefer natural gas water heaters
20 while more Manitobans are switching to electricity to
21 heat water. The increase in energy consumption has
22 negative global greenhouse gas consequences. That's set
23 out in -- in RCM/TREE/MANITOBA HYDRO-1-3(C).

24 Consumers switch from natural gas water
25 heaters to electrical water heaters due to what we see as

1 perverse pricing and mistaken assumptions as a result of
2 a failure to engage in -- in part in full cost
3 accounting.

4 MR. ROBERT MAYER: I'm having a little
5 trouble with that reasoning, sir. You're saying that we
6 get less greenhouse gases by burning natural gas than we
7 do from using hydroelectric power?

8 MR. BILL GANGE: It's not quite what
9 we're saying there, Mr. Mayer.

10 The evidence -- the evidence that -- that
11 has been presented, quite clearly in -- in our view, has
12 been that -- that use of -- of natural gas for water
13 heating is a significant saving with respect to
14 electrical power and that the more electrical power that
15 is saved, the more that can be exported to the United
16 States, which then potentially displaces coal-generated
17 power. That's -- that's -- hopefully that -- that
18 clarifies that point?

19 MR. ROBERT MAYER: Yes, that does.

20 MR. BILL GANGE: Thank you, sir.

21

22 CONTINUED BY MR. BILL GANGE:

23 MR. BILL GANGE: It is our view that the
24 prospects could get considerably worse if the trend to
25 replace gas space heat with electrical space heat reached

1 the same proportions. The juxtaposition of increased gas
2 prices with submission-market electricity prices and --
3 Mr. Mayer, just as -- as your comment identified -- a
4 green promotion or a rationalization of the switch that
5 fails to take into account the wider consequences in
6 North America makes a more massive conversion to electric
7 space heat a real threat.

8 You will recall that in Mr. Ciekiewicz's
9 presentation he -- he testified at -- at length of -- and
10 with -- and with real compassion and -- and -- well, with
11 real passion and in intensity of the -- the green nature
12 of the use of electrical space heating.

13 There's -- the -- the -- through the IR
14 process, we also found out that the MTS Centre next door
15 is using a significant amount of electricity, and Friesen
16 Tokar Architects have designed the building -- the Strand
17 amongst others. The considerable promotion of geothermal
18 installations in gas service areas all point to a growing
19 momentum behind this trend. And it is a -- is the
20 position of RCM/TREE that that trend is harmful.

21 The evidence indicates that 2004 was a
22 watershed year for electricity rates. After more than a
23 decade without increases and a 2 percent decline for
24 industrial customers in 2003, a couple of years of
25 drought signalled the necessity of a multi-year climb in

1 rates to address Manitoba Hydro's under-capitalization.

2 The perspective rate of increase could
3 have been less had Manitoba Hydro in an extended period
4 of favourable water flows, without extraordinary capital
5 expenditures, raised its rates enough to accelerate debt
6 repayment to improve its capital structure. And the
7 question that we pose is, Did this fixation on the lowest
8 rates that -- having that target prevent this from
9 happening?

10 Fourthly, this is the first GRA under the
11 new cost of service methodology which treats export
12 customers as a separate class and defines a revenue
13 surplus from that class.

14 Domestic customers, on the other hand, all
15 have a revenue shortfall relative to their allocated
16 costs and are subsidized by the surplus revenue from the
17 export class. This raises the policy questions of (a)
18 how best to distribute the export surplus to the
19 elements, activities, and classes of the utility; and (b)
20 for each classes' share of the subsidy, how to distribute
21 it within the class.

22 It is our position that -- that from time
23 to time, there has been discussion of cross-subsidization
24 from one class to another. It is the position of
25 RCM/TREE that there is no class subsidization, cross-

1 subsidization at all, and the subsidization is strictly
2 limited to the export revenues.

3 RCM/TREE is making the following
4 recommendations for the Board with respect to direction
5 to -- to Manitoba Hydro on a number of points:

6 Each general service large customer should
7 be charged the embedded energy rate for usage up to a
8 baseline and marginal cost, including environmental costs
9 above that level.

10 New general service large customers should
11 be charged entirely the marginal energy rate. The
12 additional energy should be used to fund economic
13 development grants and increase DSM and to decrease the
14 demand charges.

15 The Board should direct Manitoba Hydro to
16 participate in a collaborative effort with interested
17 parties to determine if there are areas of agreement for
18 the design of the new industrial rate proposals. This
19 collaborative approach should be ordered to precede the
20 later hearing before this Board to consider the new
21 industrial rate proposal. We agree with the proposal to
22 a fixed -- to fix December 31st, 2007, as the end date
23 for determining baseline levels.

24 With respect to the collaborative effort,
25 in the Centra hearing that -- that only the Chair was at,

1 but RCM/TREE urged that -- that there be a much more
2 collaborative approach taken to these hearings. And --
3 and we again would urge that and -- and see the -- the
4 new industrial rate as -- as an opportunity to implement
5 a collaborative approach. RCM/TREE would like to be in
6 that room with Mr. Chernick when various conceptions --
7 concepts are explored.

8 Secondly, RCM/TREE would -- would
9 recommend that Manitoba Hydro should use the increased
10 revenues from tail block sales to reduce customer demand
11 and inner block energy charges; to use those funds to
12 fund enhanced energy efficiency program, low income-
13 customer discounts and economic development; and to
14 improve Manitoba Hydro's financial structure.

15 MR. ROBERT MAYER: Just one moment on
16 that one again. If I recall RCM/TREE's original
17 discussions, with respect to inverted rates, there was to
18 be no extra revenue, that it was any move to inverted
19 rates was to be revenue-neutral. So I don't understand
20 that last recommendation.

21

22 (BRIEF PAUSE)

23

24 MR. BILL GANGE: Mr. Mayer, you -- you're
25 right, they are supposed to be revenue-neutral. You --

1 you're correct, they are supposed to be revenue-neutral.
2 However, if -- that may not occur. And -- and to the
3 degree that they do not occur, that -- that access should
4 be devoted in -- in the manner that we suggested.

5 But -- but you -- you're quite correct,
6 that -- that our understanding is that -- that the
7 inverted rates struc -- structure ought to, in a perfect
8 situation, result in a revenue-neutral design.

9 MR. ROBERT MAYER: Thank you.

10

11 CONTINUED BY MR. BILL GANGE:

12 MR. BILL GANGE: Thirdly, Manitoba Hydro
13 should eliminate demand ratchets. Fourthly, Manitoba
14 Hydro should implement time-of-use energy charges,
15 starting with the largest customers and move revenue
16 collection from demand charges to time-of-use energy
17 charges.

18 It is the position of RCM/TREE that
19 Manitoba Hydro should be required to comply with the
20 Board's rate design directives, phasing in the directives
21 to increase tail block energy rates and to reducing
22 customer demand and inner block energy charges ought to
23 start with the Board's directive arising out of this
24 proceeding.

25 Elimination of the demand charge could be

1 entirely implemented in this proceeding. It is
2 recognized that time-of-use rates will require
3 appropriate meetings -- metering and should be
4 implemented as soon as feasible.

5 Mr. -- or Professor Miller points out that
6 -- that I -- I misspoke, and that it should be the
7 elimination of the demand ratchet. I believe that I may
8 have said the elimination of the demand charge.

9 Fifthly, the Board should require Manitoba
10 Hydro to participate in a public review of marginal costs
11 including environmental costs. If Manitoba Hydro's
12 forecast data are commercially sensitive, publically
13 information -- publically available information could be
14 used to satisfy the Board's directive too, in Order
15 117/'06.

16 RCM and TREE do not consider the directive
17 to have been satisfied by including only environmental
18 costs internalized in the market. We believe that such
19 information is part of the full cost accounting that is
20 to inform decision-making as prescribed by guideline one
21 of the Sustainable Development Act.

22 6 deals with -- with the inverted rates.
23 And RCM/TREE accepts that a 2.9 percent residential rate
24 increase is appropriate and that the 2.25 percent interim
25 increase last year is warranted and should be finalized.

1 RCM and TREE suggest, however, that the
2 basic monthly charge should be reduced to approximately
3 four dollars and seventy cents (\$4.70) per month. The
4 rate for the initial energy block should be set at six
5 (6) cents per kilowatt hour for 600 kilowatt hours per
6 month for non-heating customers and for all customers in
7 non-winter months, plus a winter heating allowance for
8 all-electric customers totally 6400 kilowatt hours
9 annually, distributed over the heating season. The rate
10 for additional energy should be set at about six point
11 two eight (6.28) cents per kilowatt hour.

12 In its rebuttal Manitoba Hydro worries
13 about the accuracy of its database for identifying
14 customers with electric heat capability, as it must to
15 administer city and provincial tax revenues.

16 RCM and TREE believe that for existing
17 customers, if the identification is good enough for the
18 tax collectors, it should be good enough for rate design,
19 even if there are borderline or problematic cases.
20 Exceptional cases and administrative gaps should not
21 obstruct sound policies. In the case of customers
22 wishing to decl -- newly declare electricity as their
23 heating source, it is reasonable to require a Power Smart
24 inspection to verify heating source and building
25 efficiency.

1 This morning, Mr. Williams stated that Mr.
2 Chernick had stated that -- that low-income customers
3 ought not to get in the way of -- of the inverted rates.
4 That's not quite what he said. What -- what Mr. Chernick
5 said, in his testimony, is found at pages 2890 and
6 following 2891.

7 And what Mr. Chernick was saying was that
8 -- that in -- in his presentation it was his position
9 that inverted rates are a good and sound economic policy
10 for Manitoba Hydro to implement and to follow. And he
11 said that there are situations where sometimes there will
12 be low-income customers that -- that are affected by that
13 and that -- that the fact that there are going to be
14 people that are affected is not something that -- that
15 ought to operate as a veto over the -- the good and sound
16 public policy, and that what ought to happen is that
17 proper procedures to protect those customers ought to be
18 put in place, hand-in-glove.

19 He was not attempting to minimize the
20 risks. He was not attempting to marginalize those
21 people. He was saying that there are proper steps that
22 ought to be taken and -- and those steps are -- are also
23 part of our recommendations.

24 If the Board is inclined to continue the
25 tradition instituted by Manitoba Hydro of limiting an

1 increase for any customer to a maximum of 3 percent over
2 the class increase or 5.9 percent in the current
3 instance, RCM/TREE are prepared to accept the rate
4 structure set out in Manitoba Hydro Undertaking Number
5 94, which was Exhibit Number 89.

6 Pursuant to the calculations performed by
7 Manitoba Hydro, the basic charge would be set at four
8 dollars and seventy-four cents (\$4.74), the first block
9 would be set at six (6) cents per kilowatt hour, and the
10 balance would be charged at six point two (6.2) cents per
11 kilowatt hour.

12 In its rebuttal Manitoba Hydro suggested
13 that lowering the basic charge for electric customers
14 might incent customers with small gas usage to switch to
15 all electric appliances to avoid the recently increased
16 gas basic monthly charge.

17 However, since gas customers are also
18 electric customers, such an incentive to switch is
19 already built into the growing basic charge for small
20 users of gas. Lowering the basic electric charge and
21 increasing the tail block rate provides a counter-
22 incentive for that move.

23 The rebuttal also suggested that because
24 customer-related costs are real costs, larger consumers
25 of energy will be subsidising these costs for smaller

1 consumers of energy.

2 In reply, we note that all customers are
3 subsidized from credited export profits and that credits
4 applied to the basic charge, rather than energy, are more
5 equitably distributed in addition to providing a stronger
6 price signal to conserve.

7 It is the export customers, not high-
8 consuming domestic customers, who provide the subsidy.
9 It is the higher-consuming domestic customers who curtail
10 the capacity for the export earnings that provide this
11 subsidy. In this respect, the basic electric charge
12 differs from the basic gas charge, and it is not
13 unreasonable that they diverge.

14 RCM and TREE have also pointed out in
15 Centra Gas hearings that various externalities factored
16 into the cost of gas might justify an inverted gas rate -
17 - and -- and we have in fact argued that in the last
18 hearing -- or we now add a reduced basic charge funded by
19 pricing the gas commodity to reflect those externalities.

20 An alternative approach would be to have a
21 minimum charge for each customer's bill. This would be
22 like a basic charge with a small quantum of free
23 electricity, say 100 kilowatt hours per month, thrown in.
24 In this case, the export subsidy is applied to zero out
25 an amount so small that almost every customer will

1 surpass it, almost all of the time, but if not, the
2 minimum bill must still be paid.

3 If Manitoba Hydro requires additional time
4 to prepare education materials and mitigation measures,
5 it might be possible to introduce the residential rate
6 increase with a flat rate structure in the month
7 following the Board order and implement a revenue-neutral
8 inverted rate structure as described above in the fall.

9 Number 7. The general service small
10 energy rate should be increased to about six point six
11 eight (6.68) cents per kilowatt hour for all energy plus
12 any increase needed to offset the elimination of the
13 demand ratchet. The customer charge for non-demand
14 metered customers should be reduced to about nine dollars
15 (\$9.00), and the demand charge for demand-metered
16 customers should be reduced to about six dollars and
17 forty cents (\$6.40) per kV.A.

18 Number 8, the general service medium
19 energy charge should be increased to 2.76 per kilowatt
20 hour, plus any increase needed to offset the elimination
21 of the demand ratchet, and the customer and/or demand
22 charge decreased. If the reduction is taken entirely in
23 the demand charge, it would be reduced by about fifty
24 (50) cents per kVA.

25 Number 9, if the Board increases funding

1 for DSM, low-income programs, economic development, or
2 strengthening Hydro's balance sheet, the additional costs
3 should be recovered through energy rates and through
4 energy -- tail block energy charges where possible.

5 Number 10, Manitoba Hydro should
6 institute an affordability program for its low-income
7 customers. In addition to their social benefits for the
8 least well-off in our society, the programs are
9 beneficial to non-participating customers because of
10 reductions in utility costs and increases in the amount
11 of money collected from low income customers.

12 Manitoba Hydro should, at a minimum, set
13 its goal as reducing the energy burden of its low income
14 customers to below the severe level of 15 percent of
15 their income.

16 And, at that point, Mr. Chair, I pause to
17 note that you raised, as issue Number 20, the question of
18 -- of the Board's more limited jurisdiction compared to
19 the situation with Centra Gas. And you wanted views with
20 respect to that are related to the utility's approach or
21 possible approach to low-income customers.

22 And MIPUG, in its detailed and lengthy
23 submission, took the position this is social policy and
24 is not something for this Board to be considering.
25 Hence, the reference to the case that I've provided to

1 you.

2 It is our position that -- that, first of
3 all, these are not discriminatory matters at all and that
4 it is within the Board's jurisdiction. I would point out
5 it -- in the decision of the Advocacy Centre for Tenants,
6 Ontario, and others versus the Ontario Energy Board --
7 which is a decision which was just released on the 16th
8 of May of 2008, from the Ontario Supreme Court of Justice
9 Divisional Court -- Justices Kiteley and Cumming, at
10 paragraphs 55 and 56, dealt with the issue of whether
11 low-income programs would -- could be viewed within the
12 Board's jurisdiction.

13 And the court, in that decision, as you
14 had in your previous decision with respect to Centra,
15 where you referred -- where you stated that you preferred
16 the dissenting opinion that had been -- that had been
17 issued by the Ontario Energy Board in your review, so too
18 the divisional court preferred the dissenting view in
19 that case. And that is now the majority position.

20 And I think it's useful for the record to
21 refer to paragraphs 55 and 56 of that decision. In that
22 decision at paragraph 55, the court held:

23 "However, in our view, the Board need
24 not stop there. Rather, the Board, in
25 the consideration of its statutory

1 objectives, might consider it
2 appropriate to use a specific method or
3 technique in the implementation of its
4 basic cost of service calculation to
5 arrive at a final fixing of rates that
6 are considered just and reasonable
7 rates."

8 This could mean, for example, to further
9 the objective of energy conservation, the use of
10 incentive rates, or -- or differential pricing, dependent
11 upon the quantity of energy consumed, as well, to further
12 the objective of protecting the interests of consumers.

13 This could mean taking into account income
14 levels in pricing to achieve the delivery of affordable
15 energy to low-income cust -- consumers on the basis that
16 this meets the objective of protecting the interests of
17 consumers with respect to prices.

18 The Board is engaged in rate setting
19 within the context of the interpretation of its statute
20 in a fair, large, and liberal manner. It is not engaged
21 in setting social policy. I would urge that this Board
22 consider that same approach.

23 And -- and that then takes me back to the
24 -- the rebuttal that Manitoba Hydro -- that -- argued
25 that it is not a social or income redistribution agency;

1 it's revenues are not obtained through taxation, but are
2 rather payments for service from customers.

3 In fact, none of Hydro's domestic
4 customers pay in full for their service. And the Utility
5 is very much in the redistribution business, taking from
6 the export customers and giving it to the domestic ones.
7 The question for the Board to decide, as we noted
8 earlier, is what distribution is most in the public
9 interest, as judged in terms of the various principles,
10 laws, and policies that pertain to this process?

11 RCM/TREE advocate an integrated approach
12 to affordability and efficiency. We believe that, as a
13 matter of social justice, basic energy needs must be met,
14 and that the utility, as a supplier of energy services,
15 has a key role to play.

16 As indicated above, Mr. Wiess' evidence
17 pointed to numerous utility cost savings that can arise
18 from effective low-income customer assistance, which make
19 it imprudent not to provide such assistance.

20 Moreover, there's an urgent need to
21 replace -- to re-price the tail block of electrical
22 consumption to forestall the fuel switch -- switching
23 from gas to electricity that has begun as -- and is
24 inflating Manitoba loads.

25 But the plight of low-income families with

1 high energy bills deters the rapid -- adoption of the
2 inverted rate remedy, even though smaller consumers of
3 electricity might benefit.

4 It is our view that -- that the inverted
5 rate structure will provide -- has the potential to
6 provide significant relief for a majority of low-income
7 customers. And although Mr. Williams' comments this
8 morning focussed on those -- those low-income customers
9 that will be adversely affected, we would say to you that
10 it is our view that the majority of low-income customers
11 will receive a benefit from inverted rates, and those
12 people cannot be forgotten.

13 Mr. Chernick proposes that we think of
14 targeted low income conservation programs and bill
15 assistance through vouchers as mitigation measures
16 enabling us to move more quickly down the conservation
17 path. It is our view that this is not a time for extreme
18 gradulation -- gradualism as was advocated in the
19 testimony of Mr. Harper.

20 Point Number 11 sets out a number of
21 points that were raised by Mr. Wiess in his written
22 testimony. I'm not going to review them, word for word.
23 But basically, Mr. Wiess said that there's a number of
24 things that have to be done.

25 First of all, Hydro has to set a goal, and

1 clients are wary of means tests. Well, they're already
2 in effect. They're already in effect with respect to the
3 low-income DSM programs, and -- and it's -- the
4 suggestion that's being made is no greater than what is
5 currently in place.

6 Mr. Weiss stated that from his
7 perspective, from his experience and his review of the
8 literature, percentage of income programs with equal
9 payment plans compared to all others seem to change
10 customer behaviour the most, and he stated that the most
11 successful programs require customers to keep current
12 with their monthly payment to remain in the program.

13 This requirement both leads to changes in
14 behaviour on the part of customers, and produces revenues
15 that reduce or even completely offset the cost of the
16 program.

17 And I know that -- that Hydro has stated
18 to you in its testimony that it remains skeptical of Mr.
19 Weiss' views on this point. But that is his -- his
20 review of the literature, it's his review of -- of his
21 experience, and -- and we would urge that you consider
22 this very seriously.

23 He also recommended that -- that the
24 program should allow for easy re-certification each year,
25 and that the program ought to facilitate long-term

1 participation.

2 His final recommendation on that point was
3 that an affordability program should be seen as an
4 ongoing experiment including the use of a control group
5 of low-income customers that are not enrolled in the
6 program.

7 Frequent evaluations are very useful, as
8 is an advisory group consisting of social service
9 agencies, low-income customers, conservation and social
10 justice advocates, and utility personnel involved with
11 the program. He acknowledges that low-income populations
12 are very diverse and they require innovative outreach
13 efforts and varied approaches. The utility should be
14 prepared to fine tune the program and to expect some
15 disappointments.

16 I'm going to de our presentation, Mr.
17 Chair, by saying that RCM/TREE supports Manitoba Hydro in
18 its bid to establish a financially secure and socially
19 responsible utility.

20 RCM/TREE's position is that Manitoba Hydro
21 -- is that Manitoba Hydro must continue to develop
22 targeted DSM and affordability programs for its low-
23 income customers. It must develop robust, effective DSM
24 programs. It must rethink its commitment to providing
25 electrical energy at the lowest rates in North America,

1 and it must move towards changing the -- the -- pardon
2 me, charging the marginal price of consuming electricity
3 so that the principles of sustainability can be properly
4 observed.

5 Thank you, Mr. Chair, that's my submission
6 on behalf of our RCM/TREE and I'm happy to respond to any
7 questions that anybody might have.

8 THE CHAIRPERSON: Thank you very much,
9 Mr. Gange, Professor Miller.

10 Mr. Peters, do we know where Mr. Anderson
11 is?

12 MR. BOB PETERS: I -- I think he may be
13 in the building. He had emailed me that he was on his
14 way here at ten (10) minutes to, and obviously he was
15 just waiting for a grandiose entrance --

16 THE CHAIRPERSON: Here we are.

17 MR. BOB PETERS: -- so I welcome Mr.
18 Anderson. Perhaps --

19 THE CHAIRPERSON: Perfect timing. Your
20 timing was perfect.

21 MR. MICHAEL ANDERSON: Mr. Chair, I just
22 have to get my books from the workroom.

23 THE CHAIRPERSON: Sure, we will take a
24 few minutes while you are doing that.

25 MR. MICHAEL ANDERSON: Thank you, and I

1 probably would not complete today. If -- I won't? Do
2 you have to rise at 4:00? Okay, well, I would have to
3 leave shortly after that for other commitments, so I
4 shall get my books and get going. Thank you.

5

6 --- Upon recessing at 3:31 p.m.

7 --- Upon resuming at 3:38 p.m.

8

9 THE CHAIRPERSON: Okay, folks. Mr.
10 Anderson, you can begin whenever you wish.

11 MR. MICHAEL ANDERSON: Thank you, Mr.
12 Chair. Mr. Vice Chair, Board Member Proven, Manitoba
13 Hydro panel, thank you very much for the opportunity to
14 provide our closing comments on a very interesting
15 proceeding with a considerable amount of material.

16 I understand that, given the point in time
17 that we have and my continuing on, that I've been -- it's
18 been suggested that I would have the option of whatever I
19 don't say today, that I provide as early and as possible
20 tomorrow to Ms. Ramage, in writing, so that you can
21 consider that before you do your argument on Friday.

22 And if that's acceptable, then we can --
23 well, I can note a point that might be convenient to
24 rise, and then I'll get the material to you as soon as
25 possible tomorrow, if that's acceptable.

1 MS. PATTI RAMAGE: That would be
2 acceptable.

3 THE CHAIRPERSON: And with a copy to us
4 too, as well, Mr. Anderson.

5

6 FINAL SUBMISSIONS BY MKO:

7 MR. MICHAEL ANDERSON: It would be a
8 general circulation to all parties, Mr. Chair, of course.
9 Thank you.

10 Well, as MKO always does when it makes its
11 final comments on proceedings, it likes to provide a bit
12 of background on our interests, some of which is drawn
13 from the proceeding and some of which is drawn from
14 comments that we've made at various hearing -- sessions
15 including the motion hearing on the MIPUG motion
16 regarding the -- the new and expanding industrial rate.

17 We see this particular proceeding, whether
18 it is inherent in this proceeding and the decisions
19 arising from it, as being very important because Manitoba
20 Hydro, as a corporation, is on the cusp of some
21 significant change and focus in direction.

22 Manitoba Hydro's always been seeking as my
23 -- as Mr. Gange was describing to you -- provide the
24 lowest cost service in North America, and has prided
25 itself considerably on doing so for many years, although

1 there's some new competitors in the marketplace,
2 depending on how you measure the cost of electricity.

3 We have, however, before us a -- an
4 aggressive capital plan which, perhaps, is the most
5 extensive in the Corporation's history with, perhaps, the
6 possible exception of the nearly back-to-back projects at
7 Grand Rapids and Kettle in the old days.

8 But in -- in all of those events the
9 finances of the Corporation, its rate setting, the value
10 it places on the energy it produces, are all things that
11 are going to be under considerable scrutiny by both Hydro
12 and the Intervenors and, certainly, by MKO. So we see
13 the decisions that are being made regarding cost of
14 service, rate design, and rate setting.

15 The implicit acceptance, at least by the
16 Crown and Manitoba Hydro's capital program -- I note for
17 example, Ms. Ramage's reminder to the Board and her
18 emails regarding the admissibility of the evidence of Mr.
19 Dunsky, that in 1989 the Court of Appeal had clarified
20 the status of the Board's jurisdiction in respect to
21 capital plans. And, as a matter of history, of course,
22 MKO is really the instigator of that proceeding for the
23 Court of Appeal as a stated case.

24 It was our interest in ensuring that all
25 were aware clearly that the utility was not able to be

1 regulated -- was not subject to line item regulation in
2 respect of regulatory approval of its -- its capital
3 projects, initiatives it was undertaking or anything
4 else, that the Board had a rather blunt instrument
5 available to it of approving or not approving the rates
6 being proposed to it by Manitoba Hydro.

7 Simply put, that you would -- the Board
8 would either authorize Hydro to raise the revenue that it
9 -- it felt it needed to undertake all of its plans, or it
10 wouldn't. And so MKO's intent in 1989 was to raise
11 to the attention, certainly, of the Legislative Assembly,
12 that if it was the regular -- if it was regulatory
13 oversight of Manitoba Hydro that the legislature
14 intended, it needed to amend the acts -- the relevant
15 legislation -- in order to provide that authority.

16 So, MKO finds itself with the similar
17 interest, as it had in 1989, of an aggressive capital
18 program that is not subject to regulation in the ordinary
19 sense as would be recognized by the National Association
20 of Regulatory Utilities Commissioners or our colleagues
21 here in Canada.

22 So it means that the -- the interest of
23 this Board and its know -- considerable knowledge about
24 regulatory regulation and the art and science of
25 regulating Manitoba Hydro under the -- the legislative

1 framework that we have is of keen interest to MKO because
2 of the outcomes directly affecting the citizens of MKO.

3 We've mentioned before, of course, that
4 the MKO First Nations, there's some considerable
5 discussion about shareholders. And -- and I'd like to
6 actually touch on all of the questions that you had
7 raised, Mr. Chair -- most of them, in any case -- as I go
8 through my proceeding.

9 But one of the comments was about
10 shareholders. It's MKO's view, of course, that the
11 original capital investors, perhaps, or at least
12 concurrent capital investors in the Manitoba Hydro
13 system, are the First Nations in Northern Manitoba
14 affected by the projects.

15 In a very real sense, the ability to
16 generate rev -- wealth and revenue was affected by the
17 projects in a material way. The activities -- this
18 relationship between the livelihoods of First Nations
19 citizens and the resource base on which they depended,
20 which was now being converted, shall we say, into the
21 production of hydro power for the province -- needs of
22 the province is noted at Article 18-4 of the Northern
23 Flood Agreement. And I'll take a minute just to read it,
24 because it clarifies, and it focusses and exam -- is a
25 good example of MKO's view.

1 "The project affects the activities and
2 traditional lifestyles of the
3 communities. And anxieties have
4 developed regarding the viability of the
5 communities, the free and safe use of
6 the waterways, and the continued
7 opportunity to carry on traditional
8 activities, particularly as they relate
9 to the wildlife resources as a source of
10 food, income-in-kind, and income. These
11 anxieties may be allayed by Hydro,
12 Manitoba, and Canada using their best
13 efforts to ensure that potential
14 benefits of the project are made
15 available in a practical manner to the
16 residents of each reserve."

17 So in essence, they're clearly with
18 references to food, income, and income-in-kind. There's
19 a clear reference to a form of capital, certainly, that
20 is resident in the waters, lands, and the resources that
21 were previously used for their traditional livelihoods of
22 the community.

23 I would note as footnote or a matter of
24 reference that the reference to income and income-in-kind
25 appears only as an affirmative reference in the Northern

1 Flood Agreement, but I make the point because it was the
2 original arrangement or acknowledging the rations of
3 citizens.

4 The points that I've made in the past, of
5 course, is that the object was to benefit the citizens of
6 Canada and, most particularly, of Manitoba while ensuring
7 that the First Nation citizens were -- their interests
8 were addressed and that any damages to the interests,
9 opportunities and lifestyles, and assets of those
10 adversely affected may be compensated appropriately and
11 justly.

12 So in essence -- and hopefully without
13 making the point too extensively through these references
14 to the original of the agreements between the First
15 Nations and Manitoba Hydro and the Province and Canada --
16 we see the Hydro-affected customers, as we've referred to
17 them and as the Board acknowledged in its previous order
18 in respect of examining mitigation costs, that the Hydro-
19 affected customers are concurrent capital inventors in
20 Manitoba Hydro. And in our view, they're the holder of
21 Class A shares.

22 We have a keen interest in ensuring that
23 every kilowatt hour generated has an end result of the
24 irreversible adverse environmental, social, and cultural
25 effects of the projects. Returns, as is noted in Article

1 18(4), the benefits of the project remain available in a
2 practical manner.

3 So we have a great deal of interest in
4 Hydro's proposals for maximizing export revenues, because
5 that's what we would like to ensure takes place, so that
6 those benefits can be returned to the community and those
7 values achieved.

8 We note in a -- as a matter of summary go
9 -- just going through the materials, that Manitoba Hydro
10 earned 1.6 billion in total electrical sales in 2007,
11 including 592 million in export sales, for a net income
12 for 122 million.

13 Previously, in 2006, Hydro achieved all-
14 time records of total electricity sales of 1.8 billion,
15 export sales of 827 million on a net income of \$415
16 million. So these benefits that were referred to in the
17 Northern Flood Agreement in December of 1977 are
18 producing considerable value both to Manitoba Hydro as a
19 corporation but certainly to the customers of Hydro,
20 including its export customers and to the province.

21 According to the information that's
22 provided in this proceeding, that Manitoba Hydro's net
23 income in 2008 will again exceed 300 million and will be
24 the second highest in Hydro's history. Manitoba Hydro
25 recently forecasted 5.5 billion in export revenues from

1 the fifteen (15) export contracts over the next ten (10)
2 years with export sales to account for more -- more than
3 40 percent of Hydro's electricity revenues.

4 I make -- I'm interest -- as a matter of
5 interest to this number of 5.5 billion in export revenues
6 from the export contracts, as referred to by Minister
7 Selinger during the announcement of the Wuskwatim -- the
8 Wisconsin Term Letter that Mr. Peters, of course, had
9 examined Manitoba Hydro on shortly thereafter.

10 We also, through the same discussion with
11 Mr. Peters and the Hydro panel, a very significant
12 announcement -- it had the effect of being an
13 announcement -- that the recently announced foreign
14 export sales to both Minnesota and Wisconsin will require
15 the concurrent construction, or in close sequence of
16 Keeyask and Conawapa and their associated transmission,
17 and result in a significant increase in Manitoba Hydro's
18 ten (10) year capital expenditure forecast included in
19 this CEF of approximately \$9 billion.

20 Mr. Peters invited Manitoba Hydro to
21 update the capital expenditure forecasts, and there was
22 an -- Exhibit 77 provides -- Manitoba Hydro Exhibit 77, I
23 believe, provides some of that information, but it's
24 generalized. But it leaves us with, in essence, going
25 through all of the materials and doing our own totals.

1 Well, MKO's back at the envelope total is between 13 and
2 14 billion generation and transmission end.

3 So those are very significant steps the
4 Corporation's taking, very significant values in terms of
5 expenditures and revenues that all will occur largely
6 within the MKO region.

7 We also note that in addition to that in
8 2007, the province, of course, received \$112 million in
9 water rentals. In 2006, because of the significant sales
10 of electricity and the production of power, is 131
11 million, with capital taxes in both years of about \$77
12 million. So there's significant values that have -- are
13 of keen interest to Manitoba Hydro.

14 In terms of one of the mechanisms for
15 benefits, in a practical sense, we appreciate and thank
16 Manitoba Hydro for their responses to our inquiries
17 regarding person -- Aboriginal employment in the
18 projects, particularly for the comments provided in
19 Manitoba Hydro Exhibits 49 and 51, providing breakdowns
20 both for the Wuskwatim project and Manitoba Hydro 49 and
21 generally throughout the Corporation in their four (4)
22 categories in fifty-one (51).

23 MKO is pleased to see that there is an
24 increase in employment generally through the Corporation
25 of Aboriginal persons in the North, and one (1) of our --

1 our concerns in ensuring that benefits are achieved
2 arises in the discussion regarding these exhibits roughly
3 at transcript pages 1440 and -- and thereabouts, in that
4 Manitoba Hydro, even with these considerable values and
5 the significant capital program, does not have a formal
6 written policy on Aboriginal employment.

7 Now, we're happy to see that the gains are
8 taking place but would request that the Board encourage,
9 with the tools that it has available, and we would
10 request Manitoba Hydro to develop a formal written policy
11 on Aboriginal employment, particularly if it's planning
12 to spend \$14 billion within the MKO region, taking away
13 of course the converter station at Riel and so on, which
14 would be southern Manitoba. But the main body of the
15 expense -- expenditure -- was -- is -- was in the MKO
16 area.

17 Most of the existing transmission and
18 large generation is within the MKO region. And this --
19 this amounts to a significant potential benefit of which,
20 hopefully, Hydro Manitoba and Canada use their best
21 efforts to ensure -- are made available in a practical
22 manner to the residents.

23 One practical manner certainly would be a
24 codified employment policy for the citizen -- Aboriginal
25 citizens of the North, particularly the Hydro-affected

1 citizens which I have previously described as Hydro's
2 Class A shareholders.

3 We also, in viewing these large changes,
4 recognize, as I've already mentioned, regarding the
5 regulatory framework and the 1989 Court of Appeal ruling
6 on the reference regarding the Board's jurisdiction.

7 MKO is also concerned that the federal --
8 the provincial framework regulating Manitoba Hydro and
9 that's governing Hydro as a corporation, may actually, in
10 retrospect, be a relic of the public power era of the
11 1960s.

12 Similar to the type of language used about
13 benefits to Canada, all the citizens of Canada and, most
14 particularly of Manitoba, on the one hand, and so forth
15 at Article 18(2) of the NFA, those irreversible effects
16 were justified at the time for the needs of the province:
17 for schools, industry, hospitals, agriculture,
18 development and so forth. But now we're really not
19 operating in that environment anymore, and other tools to
20 manage the Corporation are necessary.

21 To that extent, we'd like the Board to
22 consider whether, in its general advisory capacity to the
23 legislative assembly, to provide a recommendation to the
24 legislature to examine the regulatory and legislative
25 framework for Manitoba Hydro, given these significant

1 changes in its corporate function.

2 It's building for export. As a primary
3 objective, it's certainly optimising export revenues as a
4 core objective of the Corporation. And the new and
5 expanding industrial rate is evidence of its interest in
6 optimising the value of every kilowatt hour produced.

7 So things are changing. We're not
8 producing power anymore to provide to everyone who wire
9 hooks up to the system, based on the customer service
10 policy. We're setting new rules, setting new limits, and
11 incorporating and considering engaging in new risks.

12 So MKO is, in a modern context, looking to
13 see the development of policies in legislative frameworks
14 to ensure that procurement, employment and contracting,
15 revenue -- resource revenue sharing perhaps, given these
16 enormous values, benefit sharing, certainly, and resource
17 access arrangements are enforceable conditions of
18 government financial support approvals or licences
19 related to these projects to formalize this benefit
20 transfer mechanism.

21 The stakes are high, the values are great,
22 and certainly the benefits to the citizens of Northern
23 Manitoba, the MKO First Nations in particular, justify
24 those considerations.

25 Now I had earlier mentioned that, as part

1 where we're looking at making the potential for consider
2 -- for those values, considerably greater and certainly
3 for the benefits received by the province in taxes and
4 fees and for the corporation and its customers through
5 its revenues.

6 Now, in terms of our basic questions in
7 examining the application, I had two (2) sets of series
8 of questions: one set that's internal to us, and one that
9 the Chair had asked. A series of them, the Chair had
10 asked. The first is those of you that have
11 participated with us before, we -- we described the
12 examination, the testing, of the revenue requirement and
13 the -- whether the costs are justifiable as diving for
14 dollars. What we're looking for is money that might be
15 able to be recovered that might arguably offset a -- a
16 rate increase.

17 And we note that -- that Mr. Williams and
18 the Coalition -- Mr. Harper and others -- had -- had
19 provided a considerable amount of analysis of various
20 costs and changes in circumstances to determine whether
21 the -- the rate increase that we have before us of the
22 2.9 percent was just and reasonable.

23 And they had determined that approximately
24 1 percent of the revenue requirement -- between 10 and 14
25 million -- may be able to be adjusted in accord with the

1 evidence that Mr. Harper provided and, certainly, the
2 summary that Mr. Williams presented today.

3 In looking at the work that the Coalition
4 has done in that regard, MKO concurs in their analysis
5 and would, leaping to the second of the Chair's questions
6 -- well, it's actually question three (3) -- we would say
7 that the rate increase that's proposed ought to be 1.9
8 percent as proposed by the Coalition.

9 In respect of the justifiable cost OM&A,
10 forecast appreciation and -- and so forth, regarding the
11 2.5 percent interim increase, we acknowledge, as has the
12 Coalition and MIPUG, that those expenses ought to be
13 confirmed in an order as requested by Hydro; and that,
14 essentially, we're past that point in time; and, in a
15 practical term, going back retrospectively and -- and
16 addressing them would not be, in -- in practice, the way
17 to approach it.

18 Clearly, on go-forward rate increases,
19 Hydro can assess its financial performance and make new
20 applications, either plus or minus on the forecast rate
21 increases that they now have before us.

22 In terms of other comments, I understand
23 that Mr. Williams had suggested to you that MKO is
24 interested in -- in Manitoba Hydro Exhibit 66, which was
25 a response to an MKO -- an undertaking to MKO. We are,

1 and we believe that those exhibits should also be looked
2 at in terms of any consideration the Board might give to
3 this 1.9 percent increase.

4 Of interest in Exhibit 66, of course, is
5 that energy in -- in reservoir storage, as of March 2008,
6 is near the all-time historic record for that period of
7 time. And I thank Hydro for providing this -- the handy
8 colour graph, because it's clearly indicated.

9 The energy in storage right now, in fact,
10 the position is very similar to what it was at the
11 beginning of the all-time record year, 2005/'06.

12 So clearly, however, the water levels that
13 we're most interested in for long-term energy production
14 are those that emerge in -- in June, July, and August
15 when the flow comes into the province in these eighteen
16 (18) reservoirs. But we make the point that
17 statistically and historically, we're at a position very
18 similar to the beginning point, at least from a fiscal
19 year perspective, of the all-time record year in '05/'06.

20
21 The exhibits that were provided also in
22 response to our questions -- Manitoba Hydro Exhibit 52
23 and 53 -- in -- in a table format, provide similar
24 information so that you -- we can compare the differences
25 between energy reser -- reservoir energy in storage

1 between the record year and how we're shaping up as we
2 head into the current fiscal year.

3 Without knowing, of course, with any
4 perfect certainty what the year will look like, we
5 discussed during our -- my -- our cross-examination that
6 the south is dry, but on balance. The reservoirs
7 throughout Manitoba Hydro's system have energy in storage
8 that should be able to be called upon for the production
9 of revenues throughout the year.

10 And we're hoping that that -- those facts
11 bolster the Coalition's analysis and lead to a 1.9
12 percent rate increase being confirmed by the Board.

13 Now, in terms of the other aspect -- the
14 justification for an effect of the capital program on
15 rates, which is one of the questions that we asked
16 ourselves as a part of our test, clearly, the power
17 resource planning criteria, outlined in Section 8.2 of
18 Tab 8, are reasonable for the operation of a hydro
19 utility. It's basically pretty hard to quibble with
20 building a hydro system to meet low flows to provide
21 security for firm loads. You need to do that.

22 The issue, however, is that Manitoba Hydro
23 has, except for the Kelsey generating station, which we
24 did discuss, has been optimized on an engineering design
25 basis to produce energy and better than low flow years.

1 So while the core criteria is for building
2 projects for low flow, for dependable flows in order to
3 meet our firm loads, the fact is, of course, as we know
4 from the revenues we've been generating, that we have
5 optimized facilities again, with the exception of Kelsey
6 and, interestingly, as -- if I recall correctly, Lori
7 River, because they were built in isolation from any
8 other load.

9 And we all know that load generation have
10 to simultaneously balance at all points in time. I
11 believe Mr. Dunsky made a brief mention of that basic
12 operational physics.

13 However, what is important -- in terms of
14 accepting in a general sense the power resource planning
15 criteria -- is that the operating side of running dams
16 that are built for dependable flows that are optimized
17 and can -- can produce considerable revenues and better
18 than dependable years, result in operational effects that
19 need to be examined and carefully considered in terms of
20 both risks to the corporation -- in terms of addressing
21 them.

22 And I have some comment in respect to
23 MIPUG's position on corporate risk that tie into that,
24 and also through the cost side. That is to ensure that
25 these optimized operations are correctly identifying and

1 quantifying and accommodating and compensating, if
2 necessary, the environmental costs associated with those
3 operations. Because if you build a ban -- dam larger to
4 produce power under optimized flows, it has operational
5 effects on the water regime and may, in fact, have a
6 higher elevation of it and so on.

7 So we're keenly interested, as we've
8 discussed, in ensuring that the costs side of optimized
9 operation is correctly reflected in mitigation programs,
10 compensation uncertain, and customer rates.

11 You'll recall that we had made the
12 suggestion that once identified, that these costs ought
13 not to be passed onto Hydro effective customers. And we
14 appreciate the Board's Order in 117/'04 to ask Hydro to
15 investigate the removal of those costs from customer
16 rates -- to discuss it with INAC and MKO.

17 That is that it was our thought that --
18 and we were grateful for the Board's interest in the
19 idea, that mitigation costs ought not -- that those that
20 are intended as the beneficiaries of Manitoba Hydro
21 mitigation programs ought not to have the benefits of
22 that mitigation activity clawed back in effect through
23 customer rates.

24 So again, as we move into a new era with
25 expanded capital program and focus on export operations

1 and maximising revenues, ensuring we're actually -- we're
2 accurately identifying, quantifying, and providing for
3 mitigation compensation programs, if necessary, is a
4 critical element of the operation of the system. And our
5 view is in effect an augment or part of the power
6 resource planning criteria.

7 I would note as an aside that
8 environmental considerations, again in the context of
9 MIPUG's comments about risk, which I'll address as I
10 promised, can emerge as what -- what amount to non-
11 engineering feasibility issues or non-engineering risks
12 that are associated with operational considerations and
13 costs. Particularly as we move into a new environment,
14 as we had discussed, that require certain, higher
15 standards of environmental review and now the new element
16 of the duty of the Crown to consult, justify, and
17 accommodate.

18 Another key element in this same
19 environment that we've discussed -- and I'll only touch
20 on because it -- it captures it all in terms of potential
21 recommendations by the -- this Board to certainly the
22 Minister responsible and potentially to the legislative
23 assembly -- is the involvement by government in the
24 decision-making of the Corporation from a policy-setting
25 perspective that is potentially driving the costs of the

1 Corporation.

2 So again, with a very large capital
3 expenditure program, we're very keenly interested in how
4 the decisions are made, how justifications take place,
5 how the determination of just and reasonable -- in the
6 public interest is arrived at.

7 You'll recall during my cross-examination
8 of the Manitoba Hydro revenue requirement panel -- and I
9 thank the Board for its admission of MKO Exhibit 5. It
10 was a letter from the Minister responsible for Manitoba
11 Hydro to the Chairman of the Board describing its policy
12 regarding the eastside and ding in its paragraph that it
13 doesn't regard -- that the Manitoba Government does not
14 regard an eastside Bipole 3 as being consistent with
15 these commitments and initiatives, and there was some
16 discussion as to whether that amounted to Government
17 direction.

18 It's MKO's view that it does, and that it
19 -- it puts in to the process of the Board's important
20 deliberations about the just and reasonableness, not only
21 of cost, but of the rates that are required to raise
22 those costs. The fact that certain significant costs, as
23 the evidence has indicated, regarding the -- the change
24 in expanse, the increase in costs due to the -- the new
25 westside routing of the Bipole 3 line, how that is being

1 addressed and incorporated.

2 It is difficult -- it sets a different
3 standard to determine a measurement of just and
4 reasonable on costs that are, in fact, directed by the
5 Crown, are a consequence of Government direction to the
6 Corporation. And they're beyond the reach of -- of us to
7 analyze and to digest and to refine, because we're --
8 we'll all look at the costs as they -- as they become
9 closer to expenditure, and take a keen interest in
10 ensuring that they are efficient, effective and
11 reasonable. But it remains that the global costs are as
12 a consequence of the Crown direction to the Corporation.

13 Also noting, of course, that the -- the
14 sale, itself, to Wisconsin Public Service was announced
15 by the Premier in an August 17th, 2008 press release.
16 This is a significant achievement; it's not a surprise
17 the Crown would be interested and happy to announce it.

18 Now, in -- in terms of examining
19 approaches to identifying the potential additional other
20 costs, I had wanted to just touch briefly on at this
21 point, MKO Exhibit 6-1, 6-2, 6-3 and the exhibits that
22 arose from them.

23 You will recall that the MKO exhibits were
24 three (3) questions that were asked in respect of the
25 possibility of analysis of the costs and revenues

1 associated with modified water regime operations. And
2 sixty-three (63) deals with the -- the val -- the costs
3 and mitigation costs, potentially, of the Augmented Flow
4 Program, which is referred to in MKO Exhibit 4, which is
5 an increase of approximately 5000 cubic feet per second,
6 a release from a Notigii control structure during an
7 operating year.

8 Manitoba Hydro indicated in its analysis
9 in Exhibit 63 that 650,000 megawatt hours, assuming
10 median flow conditions, would result. And then using the
11 -- the benefit cost analysis -- and I apologize for
12 jumping a bit -- in Exhibit -- Manitoba Hydro Exhibit 54,
13 which was the analysis of Kelsey using the median at
14 fifty-five dollars (\$55) a megawatt hour, that produces
15 an annual value of approximately 35.7 million as a result
16 of the Augmented Flow Program. And I thank Hydro for
17 providing that information.

18 Having said that, it indicated it doesn't
19 have an estimate of the net overall value, and that when
20 we asked about additional revenues and mitigation costs
21 included in the IFF -- and I should say, in fairness, the
22 we -- that Mr. -- the Chairman, of course, assisted us in
23 framing these questions, and I thank you for that.

24 The last two (2) sentences in -- in their
25 answer is that:

1 "No analysis is available to quantify
2 the portion in Manitoba Hydro's CRD
3 mitigation costs are associated with the
4 Augmented Flow Program."

5 So we have \$35.7 million in value
6 identified, but no analysis of the potential mitigation
7 costs. MKO's concerned about this.

8 However, Hydro says, and we believe
9 somewhat in a -- respectfully, in a -- in a somewhat
10 contradictory manner -- to the extent there may be any
11 incremental mitigation costs associated with the
12 Augmented Flow Program; they are included in the IFF.

13 We would suggest that the certainty about
14 whether they are -- are or are not included in the IFF
15 would flow from an analysis identifying the cost.

16 So, using this as a -- I suppose, as an
17 example, where there are changes in the water regime and
18 operation of the Corporation to increase the generation
19 of its projects, which is the object of this exercise, of
20 the Augmented Flow Program itself, it ought to and, in
21 fact, must come with a -- the ability of the Corporation
22 to identify the increased mitigation costs in a segmented
23 manner.

24 We're releasing 5,000 cubic feet per
25 second of water from the Notigii control structure.

1 and 65, which arise from, again, on our Exhibit 6-2, MKO
2 Exhibit 6-2 and 6-3, were an attempt by MKO to determine
3 whether Manitoba Hydro can similarly analyze the costs
4 and value to it of reservoir operations not controlled by
5 Manitoba Hydro in other provinces, but from reservoirs
6 that -- that contained reservoir energy and storage that
7 Manitoba Hydro clearly receives a benefit for as that
8 water flows into the Manitoba Hydro system.

9 Now, we would suggest that clearly it's
10 all about timing. The water's coming; it's whether it
11 gets here sooner or later. But as we pointed out in the
12 -- the MKO exhibit addressing the water management issues
13 -- this is MKO Exhibit 6, page 2, in which the management
14 of the flood risk in the Saskatchewan River was being
15 considered by Manitoba Water stewardship to potentially
16 be mitigated by reservoir operations in Saskatchewan --
17 is clearly beginning to link the effects of these
18 fortuitous releases of water from Saskatchewan that --
19 that are flowing into the Manitoba Hydro system and
20 providing reservoir energy and storage in Manitoba.

21 To the extent that there are impacts
22 associated with that, Manitoba Hydro has indicated that
23 they believe that the effects of that would be addressed
24 by Sask Power that they have -- do not have
25 responsibility. It says -- the last sentence of the

1 first paragraph in Exhibit 64:

2 "Should high water conditions occur
3 during the period of the IFF, Manitoba
4 Hydro does not expect Saskatchewan to
5 modify its reservoir operations".

6 To some extent, that's inconsistent at
7 least with the suggestion made by Manitoba water
8 stewardship on minimizing flood effects at The Pas. And,
9 certainly, in MKO Exhibit 3, which is an extract from The
10 Pas Indian band settlement as it then was; The Pas Indian
11 Ban is now today, of course, the Opaskwayak Cree Nation.

12 Article 6.01 is a water regime review and
13 consultation committee which refers explicitly at Item --
14 at Sub 1(C) to initiate discussions with Saskatchewan
15 Power Corporation to obtain information with respect to
16 the activities of Saskatchewan Power Corporation which
17 may impact on the water regime and to determine the
18 effect of sec -- activities on the water regime.

19 So, again, in addition to Manitoba Hydro
20 being able to identify the environmental effects and
21 consequences of water regime modifications within its own
22 control -- the Augmented Flow Program releases from the
23 Notigii -- Notigii controls structure.

24 As Manitoba ventures into additional
25 optimized operations and, certainly, into additional

1 capital programs that benefit from the waters of the --
2 the energy -- reservoir energy in storage from the
3 eighteen (18) reservoirs that feed the Manitoba Hydro
4 System, Manitoba also ought to be able to identify the
5 costs and benefits of modified flows into the province
6 from neighbouring utilities from which it receives water.
7

8 Clearly, they're using the reference at
9 least as little as it might be in Water Stewardship's
10 Annual Flood Report that was dated March 31, '06, and the
11 small discussion that we have available to us at Exhibit
12 65, and so on, indicate that we should be able to -- to
13 do that. Again, the operational criteria may, in its
14 basic engineering considerations, be reasonable and
15 appropriate, but it must be tied to the ability to
16 identify, quantify and address the costs of those
17 operations, where ever they might be within the system.

18 Certainly, in a further proceeding, would
19 be our interest to explore in greater detail the values
20 and costs of these types of operations.

21 How, having said that, an interesting
22 example of precisely this type of analysis, although
23 again, not with the mitigation costs included, is Exhibit
24 54, which is Manitoba Hydro's response to an undertaking
25 to MKO regarding -- to produce a summary of the analysis

1 done for the Kelsey Rerunning Project, identifying its
2 values as compared to its costs. And, again, I thank the
3 Board for its Order in this regard, and Manitoba Hydro
4 for producing the exhibit, because we find it very
5 interesting.

6 As Man -- as we had said during the
7 discussion on seeking this information, and as Manitoba
8 Hydro acknowledges in the last paragraph of the exhibit,
9 the above description for the Kelsey Project is an
10 example of how Manitoba Hydro initially justifies a large
11 project and continuously monitors it as it proceeds to
12 completion.

13 The analysis speaks for itself. It
14 provides a very helpful table at page 2 of Exhibit 54
15 that outlines the costs and benefits and, interestingly,
16 the internal rate of return; there is considerable
17 discussion in this proceeding about a mechanism to do
18 that. And the object being, in this case, that Manitoba
19 Hydro has indicated at the first sentence of paragraph 3
20 of page 1, that it's running the analysis of an '94 flow
21 conditions under the splash simulation model, which we
22 have explored both here and, I believe, it's the Clean
23 Environment Commission on Wuskwatim.

24 So there's considerable material about its
25 ability to simulate and estimate.

1 It's produced an estimate from that
2 analysis of 350 gigawatt hours, which, using the same --
3 the median value provided in this exhibit at \$19.25
4 million per year of additional generation as a result of
5 the project. The economics have changed due to the
6 increase in -- in construction and capital costs, but it
7 remains a desirable and favourable project for the
8 Corporation.

9 What's interesting about this analysis,
10 though, and what we had wanted to, to some extent,
11 contrast with the analysis done for the Churchill and
12 Saskatchewan Rivers -- that is Hydro's suggestion that it
13 was not readily able to do the analysis of the change in
14 flows, is that Manitoba Hydro has indicated in Exhibit 54
15 that it will rerun the analysis each time a generator is
16 installed, and there's seven (7) of them.

17 So it suggests to MKO that there's a
18 capability, perhaps not for real-time analysis of
19 simulations in the system, but a fairly robust ability to
20 change assumptions and to derive results in terms of
21 values and potential costs.

22 The Utility has demonstrated, in Exhibit
23 54, that it certainly has that capacity on its analysis
24 of the values of the Kelsey Project, its con -- it's
25 continual rerunning of it as each stage in the capital

1 plan is proceeded with. And MKO suggests that the Board
2 use the tools available to it to require Manitoba Hydro,
3 as I've already indicated, to do an analysis of the
4 environmental social/cultural cost of its operations
5 including its integrated or other operations with the
6 utilities are that are providing energy reservoir --
7 reservoir, energy and storage from other reservoirs
8 outside of Hydro's control.

9 Combined all together, they do have an
10 impact on the provinces noted in the -- in the water
11 stewardship analysis, MKO-6, and clearly as we move into
12 this new environment, these are the sort -- these are the
13 types of standards and the capability of analysis that
14 MKO would expect of Manitoba Hydro and we would hope
15 matters of interest to the Board, to ensure that
16 environmental costs are properly identified, accounted
17 for and addressed.

18 And with that, I -- with the Board's
19 permission, would like to close and then provide the
20 remainder of my submission to Manitoba Hydro in writing
21 and to the Board and all parties for tomorrow.

22 THE CHAIRPERSON: Thank you, very much,
23 Mr. Anderson. So then we'll adjourn the oral hearing and
24 await Manitoba Hydro's closing statements on Friday
25 morning.

1 MR. BOB PETERS: Does -- does the Board
2 have, Mr. Chairman, a preferred time on Friday? I won't
3 speak for Ms. Ramage in terms of the spectrum of her anal
4 -- or her submissions, whether it's -- I'm sure it might
5 be somewhere between Mr. Buhr's and Mr. William's, but
6 I'm not sure where.

7 MS. PATTI RAMAGE: I dream of being like
8 Mr. Buhr but I suspect it will be more like Mr. Williams.

9 THE CHAIRPERSON: Okay, then we'll see
10 you all Friday morning at 9:00.

11

12 --- Upon recessing at 4:24 p.m.

13

14

15 Certified Correct,

16

17

18

19

20

21 Cheryl Lavigne

22

23

24

25