

## MANITOBA PUBLIC UTILITIES BOARD

Re: MANITOBA HYDRO

GENERAL RATE APPLICATION

2012/13 AND 2013/14

Before Board Panel:

Regis Gosselin - Board Chairman

Raymond Lafond - Board Member

Larry Soldier - Board Member

HELD AT:

Public Utilities Board

400, 330 Portage Avenue

Winnipeg, Manitoba

January 9, 2013

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2643 --- Upon commencing at 9:01 a.m. 2 3 THE CHAIRPERSON: Good morning, everyone. I think we're ready to begin today's proceedings. I wonder if we have any administrative matters to attend to before we start. No? 7 MS. PATTI RAMAGE: Nothing from Manitoba Hydro this morning. THE CHAIRPERSON: Okay. Bonjour, 9 10 Monsieur -- Monsieur Hacault. Over to you. 11 MANITOBA HYDRO PANEL 3 - RATE DESIGN, DIESEL, AND DSM, 13 RESUMED: 14 DAVID CORMIE, Resumed 15 DARREN RAINKIE, Resumed 16 ROBIN WEINS, Sworn 17 18 CROSS-EXAMINATION BY MR. ANTOINE HACAULT: 19 MR. ANTOINE HACAULT: Good morning, all. Good morning, members of the Board. Good 21 morning, Mr. Weins, Mr. Cormie, Mr. Rainkie. 22 There's three (3) things I'll be going 23 through this morning. First, I'll just be hitting some 24 general rate-making principle statements and asking Mr. Weins perhaps to explain some of them. Secondly, I'll

- 1 be going through rate increase chronology. And
- 2 finally, I'll be dealing with curtailable rates. So
- 3 that's the general outline of what the exchange will be
- 4 about this morning.
- 5 There should have been distributed
- 6 yesterday to all parties Tabs 10 and 11, which were
- 7 inserted in the MIPUG book of documents, which has been
- 8 marked as Exhibit 6; so Tabs 10 and 11. And those are
- 9 the documents that I'll be referring to. So if all
- 10 parties could pull out that binder and those tabs, it
- 11 will assist in matters proceeding.
- Mr. Weins, with respect to rates and
- 13 rate setting in -- in Manitoba, am I correct in
- 14 understanding that Manitoba Hydro is to provide service
- 15 at cost? In other words, it's not supposed to be
- 16 making a profit?
- MS. PATTI RAMAGE: Mr. Hacault, I --
- 18 I'm not sure, but I think you're asking for a legal
- 19 opinion from Mr. Weins.
- 20
- 21 CONTINUED BY MR. ANTOINE HACAULT:
- MR. ANTOINE HACAULT: Okay, well, to
- 23 the extent that you believe it's an -- a legal opinion,
- 24 I'm not asking for a legal opinion. I thought it was
- 25 just a general rate-setting principle that Manitoba Ho

- 1 -- Hydro was providing service at cost?
- 2 MR. ROBIN WEINS: Manitoba Hydro
- 3 provides service at cost plus a reasonable return.
- 4 It's a fair return. That would be included in the
- 5 cost.
- 6 MR. ANTOINE HACAULT: Okay. Thank you.
- 7 And that return allows it to continue to conduct its
- 8 business and to provide service to all Manitobans,
- 9 correct?
- MR. ROBIN WEINS: Yes.
- 11 MR. ANTOINE HACAULT: And in the rate-
- 12 setting process, we generally start with -- a first
- 13 step would be the rate -- the revenue requirements,
- 14 correct?
- MR. ROBIN WEINS: Yes.
- MR. ANTOINE HACAULT: And then there's
- 17 two (2) other areas that we usually get into, and not
- 18 always in as much detail. But the cost of service,
- 19 correct?
- 20 MR. ROBIN WEINS: The cost of service
- 21 is -- is a tool that is helpful to use in apportioning
- 22 the revenue requirement, yes.
- 23 MR. ANTOINE HACAULT: And finally, we
- 24 look at rate structure itself, which allocates rates
- 25 between different classes and different levels of

2646 service, correct? 2 MR. ROBIN WEINS: Typically, we look at the allocation of revenue requirement among classes 3 prior to the rate structure question, but -- but it --I get your point. 6 MR. ANTOINE HACAULT: Now, is it fair 7 to say that another fundamental principle is that the ratepayers pay for what's used and useful? 9 MR. ROBIN WEINS: Yeah, that's a --10 that's a longstanding regulatory principle, yes. 11 MR. ANTOINE HACAULT: And under that principle, today's ratepayers should not be paying for 13 something that's not yet in service and not yet 14 providing them with some electricity. 15 Is that correct? 16 17 (BRIEF PAUSE) 18 19 MR. ROBIN WEINS: Yeah. Typically, facilities that are not in service are -- are 21 capitalized and -- and subsequently amortized when they 22 come into service. 23 MR. ANTOINE HACAULT: And we see that 24 happening for major products which are not yet 25 committed to but are online, such as Conawapa and

2647 Keeyask, correct? 2 MR. ROBIN WEINS: Yes. 3 (BRIEF PAUSE) 5 6 MR. ANTOINE HACAULT: Now, could you 7 please -- I'm going to change to the rate increase chronology now. And the first page in the book of documents that I draw your attention to is page 144. It's a summary, and I'll be going through some of the 10 11 items there. 12 The first part of understanding that 13 chronology, I would ask you to go to page 146 and 147. It's an ex -- extract from Board Order number 5/12, 14 15 issued on January 17, 2012. 16 Have you located that? 17 MR. ROBIN WEINS: Yes. 18 MR. ANTOINE HACAULT: Now, on page 146 19 of the book of documents, it's paragraph 21.0.0, there, the order of this fairly lengthy decision of the Board, 21 correct? 22 MR. ROBIN WEINS: Yes. 23 MR. ANTOINE HACAULT: And in that order 24 we find at paragraph 3 a reflection that there had been 25 two (2) interim rates approved: one (1) for April 1,

- 1 2010, at 2.9 percent average consumer rate increase,
- 2 correct?
- 3 MR. ROBIN WEINS: Yes.
- 4 MR. ANTOINE HACAULT: And then a second
- 5 interim increase of 2 percent average rate increase,
- 6 effective April 1, 2011, correct?
- 7 MR. ROBIN WEINS: Yes.
- 8 MR. ANTOINE HACAULT: And there was
- 9 also a further .9 percent average rate increase
- 10 requested for August 1, 2011. And all of those were
- 11 denied, correct?
- MR. ROBIN WEINS: Yes.
- MR. ANTOINE HACAULT: Now, at paragraph
- 14 4 and 5 there was an order that Manitoba Hydro
- 15 recalculate and refile for Board approval schedules of
- 16 rates reflecting the rate increases which were actually
- 17 approved, correct?
- 18 MR. ROBIN WEINS: Yes, I see that.
- 19 MR. ANTOINE HACAULT: And yesterday we
- 20 had some discussion, I had requested if you could find
- 21 what was refiled by Manitoba Hydro for Board approval.
- 22 And were you able to locate that?
- MR. ROBIN WEINS: Sorry, yes, we did.
- 24 MR. ANTOINE HACAULT: Okay. I don't
- 25 think it's been distributed. Could we -- do -- does

- 1 Manitoba Hydro have enough copies to distribute what
- 2 Manitoba Hydro filed, as far as a schedule of rates in
- 3 accordance with paragraphs 4 and 5 of the Board order
- 4 found at page 146 of our book of documents?
- 5 MS. PATTI RAMAGE: Mr. Hacault, we can
- 6 attempt to make copies. We didn't understand, when you
- 7 made the inquiry, that there was an expectation that it
- 8 would be part of this morning's hearing. So,
- 9 unfortunately, we don't have copies available, but
- 10 we're running to the back room right now.
- 11 MR. ANTOINE HACAULT: Okay. Well, I'll
- 12 continue. We can take five (5) minutes then, because I
- 13 think it's important to understand the chronology and
- 14 what was actually approved by the Board, if it was.
- THE CHAIRPERSON: Okay. Let's do that,
- 16 stand down for ten (10) -- for five (5) minutes.
- 17 MR. ANTOINE HACAULT: I apologize to
- 18 all if I wasn't clear on that.

19

- 20 --- Upon recessing at 9:11 a.m.
- 21 --- Upon resuming at 9:18 a.m.

- 23 MR. ANTOINE HACAULT: I believe we're
- 24 ready to proceed. There has been distributed to all
- 25 parties, as I understand it, a -- a document entitled,

2650 "Impact of Board Order 05/12 on Rates Effective April 9, 2010, and April 1, 2011." It was -- the document was produced by Manitoba Hydro, and we would mark it as 3 MIPUG Exhibit Number 7. MIPUG Exhibit Number 7. 5 6 --- EXHIBIT NO. MIPUG-7: Document, "Impact of Board Order 05/12 on Rates 7 Effective April 9, 2010, 9 and April 1, 2011" 10 11 THE CHAIRPERSON: Do -- do you suggest 12 that we file that as -- under Tab 7? Is that -- or do 13 you...? 14 MR. ANTOINE HACAULT: No, this would be 15 just a separate document. 16 THE CHAIRPERSON: Okay. 17 MR. ANTOINE HACAULT: Because the way 18 we've organized our binder, we actually put a page 19 number on the bottom right-hand corner of each page under Exhibit 6. And these documents don't have that 21 pagination, so it would not be consistent with the way 22 we'd been using that Exhibit 6. 23 THE CHAIRPERSON: Thank you. 24 CONTINUED BY MR. ANTOINE HACAULT: 25

2651 MR. ANTOINE HACAULT: Mr. Weins, could 1 you explain to the Board how this document came to be created and to what it was attached, as far as a filing with the Public Utilities Board? 5 MR. ROBIN WEINS: Yes. Manitoba Hydro filed an application for an interim rate change effective April the 1st, 2012, and attached this as an 7 appendix to -- to that application. It was filed on 9 March the 30th, 2012. 10 11 (BRIEF PAUSE) 12 13 MR. ANTOINE HACAULT: Now, can I take 14 you to page 5 of 13 of Exhibit 7, this document? 15 MR. ROBIN WEINS: Yes. 16 MR. ANTOINE HACAULT: Now, focussing firstly on the top boxes, which describes the rate 17 18 class residential, could you explain what the table was 19 intended to reflect, firstly with respect to the April 1, 2010, rates? There's the headings, "Interim," "Revised," and "DIFF," which I would believe would be 21 22 "difference". 23 24 (BRIEF PAUSE) 25

2652 Well, a few minutes 1 MR. ROBIN WEINS: ago we took a look at Directive number 4 in Order 5/12, which was that Manitoba Hydro recalculate and refile a 3 schedule of rates reflecting a 1.9 percent increase, as contrasted to the 2.9 percent that had been approved earlier on an interim basis for all customer classes except area roadway lighting, together with supporting 7 schedules, including proof of revenue and customer 9 impacts. 10 And this document demonstrates if -- if 11 we're looking at the -- under the heading, "April 1, 12 2010, Rates: Rate Class Residential," it is showing the 13 rates that were approved on an interim basis in the 14 first column, which shows a six dollar and eighty-five 15 cent (\$6.85) basic charge, energy charges of six point three-eight (6.38) cents and six point five-seven 16 17 (6.57) cents for the blocks respectively. 18 And in the second column it shows 19 Manitoba Hydro's determination of what rate change would be needed to reflect a 1.9 percent rate change 20 21 over the same period, the difference being simply the difference between the interim rate -- approved rate 22 23 and the calculated rate to meet the Directive number 4. 24 So the residential rate for the first

900 kilowatt hours would go from six point three-eight

- 1 (6.38) cents to six point three-two (6.32) cents,
- 2 showing a different of point zero-six (.06) cents.
- 3 Similarly, for the balance of the kilowatt hours, six
- 4 point five-seven (6.57) cents to six point five-one
- 5 (6.51) cents, with a difference of zero point six (0.6)
- 6 cents.
- 7 MR. ANTOINE HACAULT: So that the
- 8 starting point, as approved by the PUB, is the six
- 9 point three-two (6.23) cents. That was the 1.9 percent
- 10 increase approved firstly for the first 900 kilowatts.
- 11 And for the balance of kilowatts under residential, the
- 12 approved rate by the PUB is six point five-one (6.51)
- 13 cents.
- 14 Am I correct?
- MR. ROBIN WEINS: Well, you know, I
- 16 would have to actually go back and look at the
- 17 correspondence to determine if that's the appropriate
- 18 way to refer to it, "the approved rate." It was the
- 19 rate that the PUB directed Manitoba Hydro produce in
- 20 Directive number 4.
- 21 MR. ANTOINE HACAULT: Okay. So I be --
- 22 I would suggest to you that the answer on what was
- 23 actually approved is, if we turn to page 146 of the
- 24 MIPUG book of documents -- that's the order portion --
- 25 of Board Order 5/12, the first paragraph directs, and

2654 I'm quoting, a: 2 "...1.9 percent average consumer rate 3 increase for all of Manitoba Hydro's domestic customer classes 5 parentheses] (except area and roadway 6 lighting) [close parentheses] April 1, 2010; b) and is hereby approved as final." 9 So what I was suggesting to you, as I 10 understood you to explain the table, which is at page 5 11 of 13, is that what was approved as final with respect 12 to residential -- and that's just using the example --13 was the six point three-two (6.32) cents and the six 14 point five-one (6.51) cents. 15 Are we ad idem on this? 16 MR. ROBIN WEINS: You know, I may be 17 getting unnecessarily technical on this, Mr. Hacault. 18 But typically, the -- we get an order from the Public 19 Utilities Board that says, We approve a rate increase of such and such, and in this case 1.9 percent. 21 order then requests Manitoba Hydro to file rates that 22 would be in compliance. Manitoba Hydro files those 23 rates, and we get a second order that confirms that 24 they are the -- in fact the approved rates. 25 What I'm telling you here -- and again,

- 1 I may be getting unnecessarily technical -- I don't
- 2 recall seeing an order that approved those specific
- 3 rates. I've -- I -- certainly I see the order that
- 4 approved the 1.9 percent, but not those specific rates.
- 5 So I'm -- I'm just uncertain as to
- 6 whether it's correct to refer to them as approved rates
- 7 or whether it's rates -- simply rates that were
- 8 produced in compliance with that directive.
- 9 MR. ANTOINE HACAULT: Now, let's take
- 10 the Board through that. In the normal course, as I
- 11 understand what you're saying, is we'd go through a
- 12 hearing. The Board would say, I approve 1.9 percent
- 13 increase. Are we okay so far?
- MR. ROBIN WEINS: Yes.
- 15 MR. ANTOINE HACAULT: Then what
- 16 Manitoba Hydro would do -- because it doesn't say an
- 17 equal increase on all items; it says an average
- 18 increase -- Manitoba Hydro files what its view is of
- 19 this particular Board Order that says, You get an
- 20 average increase of 1.9 percent.
- 21 Are we okay so far?
- MR. ROBIN WEINS: Yes, we are.
- 23 MR. ANTOINE HACAULT: And what you
- 24 believe has not occurred here -- and it may be because
- 25 of the change of boards or an oversight -- is that

PUB - MANITOBA HYDDRO GRA 01-09-2013 2656 Manitoba Hydro has filed its view in this Exhibit number 7 of what complying with Board Order 5/12 would be, correct? 3 MR. ROBIN WEINS: Yes. 4 5 MR. ANTOINE HACAULT: But what has not yet happened, to your understanding, is there has been no official approval or disapproval of Manitoba's view 7 -- Manitoba Hydro's view of this 1.9 increase and whether or not these numbers that we -- we were discussing are actually numbers that are approved by 10 11 this Board? 12 13 (BRIEF PAUSE) 14 15 MR. ROBIN WEINS: Yeah. And, Mr. 16 Hacault, I -- I do not recall seeing an order that 17 confirmed that. 18 MR. ANTOINE HACAULT: Well, we're ad 19 idem on that. I couldn't find one either. And I had asked the Board's secretary to look through it. I looked on the website to see whether or not there was 21

- 22 an actual Board order that issued as a distinct order,
- 23 looking at the schedules that were provided by Manitoba
- 24 Hydro and saying, Yes, we agree with your calculation -
- 25 and I used a specific example to try and explain it -

2657 - that we have now approved as a revised rate at 1.9 percent, the six point three-two (6.32) cents and the six point five-one (6.51) cents. 3 That order specifically approving Manitoba's view of -- Manitoba Hydro's view of the revised rates has never issued, to my knowledge and 7 your knowledge? 8 MR. ROBIN WEINS: Correct. 9 10 (BRIEF PAUSE) 11 12 MR. ANTOINE HACAULT: And that appears 13 to be inconsistent with the previous practice of this Board, where it actually looks at a revised rate 14 15 schedule produced by Manitoba Hydro and says, Yes, I 16 agree, the way you've done is consistent with our or --17 our order and we will approve these final rates as 18 shown in your schedule? 19 20 (BRIEF PAUSE) 21 22 In the -- in --MR. ROBIN WEINS: Yes. 23 certainly, in the past, it has been our experience that 24 when we have filed rates to comply with a -- with a particular Board order, there has been an order come

- 1 back from the Board that says, Yes, we agree that these
- 2 rates comply with our order.
- 3 MR. ANTOINE HACAULT: So that all
- 4 things being equal, if there hadn't been what I'll
- 5 refer to, maybe incorrectly, as an oversight, the base
- 6 rates that we would be proceeding with, assuming Mani -
- 7 the Board agreed with the schedules as revised by
- 8 Manitoba Hydro, for the year April 1, 2010, we would be
- 9 starting with a base rate of six point three-two (6.32)
- 10 cents for the first 900 kilowatts and for the balance
- 11 of the kilowatts at six point five-one (6.51) cents,
- 12 with a basic charge of six point eight-five dollars
- 13 (\$6.85), correct?
- 14 MS. PATTI RAMAGE: Mr. Hacault, I'm
- 15 just concer -- I'm concerned with your use of
- 16 oversight, in terms of the witness. The Board speaks
- 17 through its orders. And if there is no order, I don't
- 18 think it's for a witness to interpret why there was no
- 19 order.
- 20 There was, in fact, several review and
- 21 vary applications following Order 5/12. There was also
- 22 a new interim rate application following Order 5/12,
- 23 all before April 1st. So I don't think it's
- 24 appropriate to -- for the witness to attempt to speak
- 25 to why the Board did not issue a second order. It

- 1 could be very well that the Board had very good reasons
- 2 and not an oversight, as -- as described by you.
- I think we have to look to the orders to
- 4 understand what the Board wanted to do.
- 5 THE CHAIRPERSON: Why don't we
- 6 undertake -- the Chair will undertake to -- the Chair
- 7 will undertake to determine whether or not a Board
- 8 order was issued, finalizing or confirming the
- 9 finalized rates as a result of Order 5/12.
- 10 MS. PATTI RAMAGE: Mr. Rainkie has just
- 11 pointed out to me -- and perhaps he can speak to this -
- 12 but Manitoba Hydro did continue to bill the -- the
- 13 rates, and the Board was aware of that, if that's of
- 14 assistance to the Board in understanding what happened.
- 15 But it was -- it wasn't a situation where parties
- 16 weren't aware of this order and -- and its impact,
- 17 because the Board clearly understood that we were
- 18 continuing and creating, in effect, a deferral account,
- 19 which I will stop right there and let Mr. Rainkie speak
- 20 to what that is.
- 21 MR. DARREN RAINKIE: Yes, I think this
- 22 was a bit of a different circumstance, maybe is the way
- 23 to describe it, in that Board finalized rates for
- 24 2010/'11 but directed us to continue to bill the
- 25 previously approved rates and defer the difference in a

- 1 deferral account, which you'll find that -- I think
- 2 it's ordered in paragraph number 8 on the exhibit that
- 3 Mr. Hacault was going through.
- 4 So -- so all that we needed to continue,
- 5 in terms of billing rates, was the -- that direction
- 6 from the Board. Whether or not the other calculation
- 7 was ever finalized, I -- I suppose, is a matter to go
- 8 to look at the -- the various orders on. But
- 9 certainly, the rates that we continue to bill were
- 10 those that were approved by the Board.

- 12 CONTINUED BY MR. ANTOINE HACAULT:
- MR. ANTOINE HACAULT: Well, it appears,
- 14 from my perspective, members of the Board, that this
- 15 witness is now giving a legal opinion, because if we go
- 16 through the paragraphs, and in particular 8 to which
- 17 Mr. Rainkie referred to, there is not in any of the
- 18 Board orders specifically set out an authorization for
- 19 Manitoba Hydro to continue to bill that extra 1
- 20 percent.
- 21 The -- it'll be a matter for legal
- 22 argument. But under the Manitoba Hydro Act -- I'm just
- 23 giving you a taste of what we may be arguing, is that
- 24 Manitoba Hydro was only authorized to bill to customers
- 25 the Board-approved rates.

- 1 And there are specific paragraphs which
- 2 approve the 1.9 percent and the 2 percent, and that's a
- 3 1 percent rollback. There may have been a deferral
- 4 account set aside, and that's in paragraph 8, so that
- 5 then Manitoba Hydro was in a position, should this
- 6 Board decide how it was going to deal with that extra
- 7 money. Was it going to require it to be refunded, is
- 8 one (1) of the possibilities, to all customers. But
- 9 there is, nowhere in any of the documents that I have
- 10 found, that there was an instruction to Manitoba Hydro
- 11 or -- or an authorization to charge that extra 1
- 12 percent.
- The only order I have found is that
- 14 there is a rollback of 1 percent from the interim ac --
- 15 interim rates and that the approved rate, going
- 16 forward, is 1.9 percent, not 2.9 percent. But we'll
- 17 leave that for -- for argument, and I'll just continue,
- 18 perhaps, to follow through in -- in this.
- 19 I'll bring the Board back and all the
- 20 parties back to page 144, which is the summary of how
- 21 things developed since 2009 with respect to Board-
- 22 approved rates. Firstly, on the top of page 144,
- 23 there's a box number 1, which is headed, "April 1,
- 24 2009, Final Rates."
- Now, am I correct in understanding, Mr.

2662 Weins, that we did have a final approval, back in Order 33/09, for final rates from April 1, 2009, to March 31, 2010? 3 MR. ROBIN WEINS: Yes, that's my understanding, yes. 6 MR. ANTOINE HACAULT: And, subject to check, those final approved rates were six dollars and twenty-five cents (\$6.25) for the first block of electricity for residential customers and then six dollars and thirty cents (\$6.30) for the next block, 10 11 correct? 12 Sorry, six point two-five cents (6.25) 13 and then six point three cents (6.3). 14 MR. ROBIN WEINS: Yes, that's correct. 15 16 (BRIEF PAUSE) 17 18 MR. ANTOINE HACAULT: And that's the 19 number from which we have to start to go to arrive at a 20 one point nine (1.9) increase, correct? 21 MR. ROBIN WEINS: Yes. 22 MR. ANTOINE HACAULT: And is that what 23 Manitoba Hydro tried to reflect in Exhibit 7, which we 24 had looked at previously? 25 MR. ROBIN WEINS: Yes.

- 1 MR. ANTOINE HACAULT: And the one point
- 2 nine (1.9) increase, you've indicated, would be in this
- 3 case from six point two-five (6.25) cents up to six
- 4 point three-two (6.32) cents?
- 5 MR. ROBIN WEINS: Yes, that was our
- 6 determination.
- 7 MR. ANTOINE HACAULT: And for the six
- 8 point three (6.3) cents, it would have increased the
- 9 1.9 percent. It would increase it from six point three
- 10 (6.3) cents to six point five-one (6.51) cents,
- 11 correct?
- MR. ROBIN WEINS: Yes
- MR. ANTOINE HACAULT: And going back to
- 14 the table at page 5 of 13, we didn't cover the next
- 15 period, but the next period is April 1 of 2011,
- 16 correct?
- MR. ROBIN WEINS: Yes.
- MR. ANTOINE HACAULT: And the approved
- 19 rates, as understood by Manitoba Hydro, would be that
- 20 there would be the 2 percent increase as approved in
- 21 paragraph 2 of the Board Order 5/12, correct?
- MR. ROBIN WEINS: Yes.
- 23 MR. ANTOINE HACAULT: And that revised
- 24 number would be six point five-five (6.55) cents for
- 25 each block? There is no inverted rates anywhere?

- 1 MR. ROBIN WEINS: Yes, because there
- 2 had been an order for rates effective April 1, 2011.
- 3 The -- the interim order, which directed Manitoba Hydro
- 4 to eliminate the two (2) blocks, still stands.
- 5 MR. ANTOINE HACAULT: Thank you. So if
- 6 we continue, when Manitoba Hydro sought an interim
- 7 approval -- and I'm back on page 144 -- an interim
- 8 approval for the April 1, 2012, rates the -- there was
- 9 a proposed 3.5 percent increase, correct?
- MR. ROBIN WEINS: Yes.
- 11 MR. ANTOINE HACAULT: And the Board
- 12 gave an interim approval, under 34/12, of 2 percent
- 13 instead of the 3.5 percent, correct?
- 14 MR. ROBIN WEINS: That's right.
- MR. ANTOINE HACAULT: And,
- 16 mathematically -- and we can have an argument about
- 17 what happened after. Mathematically, if we look at the
- 18 April 1, 2011, rates as revised, the calculations
- 19 should start with the six point five-five (6.55) cents,
- 20 adding the 2 percent, correct?
- MR. ROBIN WEINS: No, because, from my
- 22 understanding, the -- the Board had directed Manitoba
- 23 Hydro to -- that it could continue to apply the
- 24 existing interim approved rates and that it -- Manitoba
- 25 Hydro was to maintain a deferral account, the

- 1 difference between the two (2) sets of rates being ma -
- 2 maintained within the deferral account.
- 3 So the 2 percent was applied to the existing rate at
- 4 the time, which was the -- in the case of the
- 5 residential class, the six point six-two (6.62) cents.
- 6 MR. DARREN RAINKIE: Mr. Hacault, I can
- 7 add to that. We found the reference in Order 5/12 at
- 8 page 28. The second full paragraph in the Board
- 9 findings part of the -- this section of the order is
- 10 what we were relying on to -- to do what Mr. Weins just
- 11 said, that we would maintain the previously approved
- 12 rates in the interim and defer the difference. That's
- 13 page 28 of Order 5/12.
- 14 MR. ANTOINE HACAULT: Okay. Now, am I
- 15 correct in understanding that Manitoba Hydro applied
- 16 for a vary and review of Board Order 5/12?
- MR. ROBIN WEINS: Yes, we did.
- 18 MR. ANTOINE HACAULT: And am I also
- 19 correct in understanding that the application for vary
- 20 and review was denied?
- MR. ROBIN WEINS: Yes, it was.
- MR. ANTOINE HACAULT: So as I'm
- 23 understanding it, Manitoba Hydro's interpretation of
- 24 the orders specifically enumerated at pages 146 and 147
- 25 of our book is that it was -- in fact had approval for

2666 a 2.9 percent increase effective April 1, 2010, and that it could continue to charge that 2.9 percent? 3 MR. DARREN RAINKIE: Yes, that -- I don't think that changed in those orders, Mr. Hacault. I mean, it would be logically inconsistent to maintain a deferral account if we were going to reduce the rates. So -- and that direction had not been changed 7 from Order 5/12, in terms of our interpretation. MR. ANTOINE HACAULT: So Manitoba Hydro does not draw a distinction between what was an 10 11 approved rate and what it continued to charge. 12 Is that correct? 13 MS. PATTI RAMAGE: It might be of assistance to the Board if I just read into the section 14 15 -- the section of the order that Mr. Rainkie is referring to, and that might assist all parties. 16 Rainkie was referring to page 28 of Order 5/12, and it 17 18 says at that point in the order: 19 "Rather than requiring Manitoba Hydro 20 to immediately reduce its rates, the Board orders that the rate 21 22 differential between what was 23 approved on an interim basis and what 24 has now been finalized shall be 25 quantified by Manitoba Hydro and

	2667
1	remain as an interim rate, with its
2	associated revenues being accumulated
3	by customer class with accrued
4	interest in the previously described
5	deferral account."
6	
7	CONTINUED BY MR. ANTOINE HACAULT:
8	MR. ANTOINE HACAULT: So I gather then
9	that Manitoba Hydro continues to treat this 1 percent
10	as an interim rate approved, going back to 2010.
11	MR. DARREN RAINKIE: That's correct,
12	and we continue to defer the difference in a deferral
13	account as we speak.
14	
15	(BRIEF PAUSE)
16	
17	MR. ANTOINE HACAULT: Just just so
18	THE CHAIRPERSON: To clarify I'm
19	sorry, Monsieur Hacault. Just to clarify, so the
20	the interim rate request that the Board has granted
21	subsequent to this order, so the 2.9 percent was
22	increased by 2 percent and a further 2 1/2 2.4
23	percent after this order was increased, as a result of
24	the interim orders?
25	MR. ROBIN WEINS: You're referring to

- 1 the April 1 interim increase and the September 1
- 2 interim increase. Yes, and both -- both of which --
- 3 which were approved, and the rates flowing from those
- 4 orders were -- were finalized and approved as well.

5

- 6 CONTINUED BY MR. ANTOINE HACAULT:
- 7 MR. ANTOINE HACAULT: So having gone
- 8 through the application for review and vary, Manitoba
- 9 Hydro now is taking the -- or making the request that
- 10 this 1 percent be retroactively approved as a final
- 11 rate instead of an interim rate, back to April 1 of
- 12 2010?

13

14 (BRIEF PAUSE)

- 16 MR. DARREN RAINKIE: Yeah. Mr.
- 17 Hacault, we're asking that -- that -- I'm not sure
- 18 about the word "retroactive". I suppose we can debate
- 19 that, and maybe that's a matter of legal argument or
- 20 not. But we are asking that the deferral account, the
- 21 balance in the deferral account, be returned to
- 22 Manitoba Hydro's revenues as part of this Application.
- 23 MR. ANTOINE HACAULT: So that if I do a
- 24 quick addition then, looking at page 144, in this Rate
- 25 Application we're asking for 1 percent from April 10 --

- 1 April 1, 2010, for each of the years, correct?
- 2 MR. DARREN RAINKIE: Yes. We are going
- 3 back to 2010/'11 as 1 percent for each year. I think
- 4 if we -- we're to look at either Tab 1 or Tab 2 of Mr.
- 5 Peters's book of documents, we see the -- the
- 6 accumulation of that over time. I think we went
- 7 through that with Mr. Peters within the first few days
- 8 of the Hearing.
- 9 MR. ANTOINE HACAULT: And to that,
- 10 Hydro is asking for the 2 percent, which was approved
- 11 in Order 34/12. So we're at 3 percent now, correct?

12

13 (BRIEF PAUSE)

- MR. ROBIN WEINS: Yeah, I take it
- 16 you're looking to quantify or to demonstrate the
- 17 accumulation of the rate increases that Manitoba Hydro
- 18 is asking for in this Application relative to those
- 19 which were given final approval in Order 5/12. So
- 20 you're correct. We are asking for the restoration of
- 21 the 1 percent. We're asking for the finalization of
- 22 the 2 percent that was approved effective April the
- 23 1st, 2012; the 2 1/2 -- or 2.4 percent, effectively,
- 24 that was approved interim September 1st, 2012.
- MR. ANTOINE HACAULT: We were at --

2670 basically, if -- six and a half (6 1/2), because it's compounded, correct? The 2 percent is over the one (1) -- sorry, 5.5 percent? 3 MR. ROBIN WEINS: We -- we could give you the compounded amount, but it's close to 5.5 percent, yes. 7 MR. ANTOINE HACAULT: And then to the 5.5 percent, there's a proposed 3 1/2 percent, which would be effective April 1, 2013, correct? 10 MR. ROBIN WEINS: Yes, that's correct. 11 MR. ANTOINE HACAULT: So if I add to the 5.5 percent, roughly, the other 3.5 percent, the 13 total amount being asked by Manitoba Hydro in this Hearing is about 9 percent? 14 15 MR. ROBIN WEINS: Yes. 16 17 (BRIEF PAUSE) 18 19 MR. DARREN RAINKIE: Mr. Hacault, I think too the -- the quantification of that, from a --21 from a numeric perspective, was in -- on Mr. Peters's 22 page 17 of his book of documents, just for the Board's 23 memory. Volume I of Mr. Peters's book of documents, 24 page 17, I think, describes that handily. 25

2671 1 (BRIEF PAUSE) 2 3 Yes, I think that MR. ANTOINE HACAULT: table described part of it. But I have a note here that during the testimony Mr. Warden clarified that the 3.5 percent increase, which is sought as of April 1, 7 2012, would actually be 48 million, per IFF12. This table was prepared according to IFF11-2. At least I had that changed so that the 9 10 total amount wouldn't be a lot bigger, but the total additional revenue required -- or that would be 11 received as a result of this approximately 9 percent 13 increase would be in the range of \$118 million. 14 Am I correct in that? 15 MR. DARREN RAINKIE: I'd have to go 16 back to our calculations. What I'm not remembering is 17 if that was just a matter of rounding or if it did --18 it did round up in IFF12. I -- I'll -- we can check 19 that, Mr. Hacault, perhaps at the break, and just make sure that's clear on the record. 21 MR. ANTOINE HACAULT: Yeah, I'm not 22 asking for an undertaking. That's -- it doesn't matter 23 that much. It is what it is. 24 Now, the next area that I just want to look at very quickly on how things developed in this

2672 historic overview of the rate increases, I direct all parties to page 159 of MIPUG book of documents. It's at tab 10, page 159 in the bottom right-hand corner. 3 And that's an extract of Order number 98/12. 5 6 (BRIEF PAUSE) MR. ANTOINE HACAULT: In the last sentence preceding the last paragraph, and I'll quote 10 it: 11 "The Board also notes that Manitoba 12 Hydro's current application [comma], 13 as filed [comma], seeks across-the-14 board rate increases at the same 15 percentage for all customer classes, 16 which facilitates the separation of 17 the cost of service review from the 18 remainder of the GRA process." 19 Now, Manitoba Hydro had presented its view of what the 2.5 percent increase would be with an across-the-board increase. 21 22 Is that correct? 23 24 (BRIEF PAUSE) 25

2673 MR. ROBIN WEINS: I -- you know, I'm 1 not -- I'm not certain. I think at this point we had presented that. We had filed that mat -- for the 3 September 1 increase at the 2.5 percent across the board. So, you know, for the purpose of advancing the discussion, I'll say yes. 7 MR. ANTOINE HACAULT: It might be of assistance just to turn back a couple pages. There's a letter dated August 31, 2012, which is -- starts at 10 page 153. 11 MR. ROBIN WEINS: Yes, I have that. 12 MR. ANTOINE HACAULT: In the second 13 paragraph, and I'm quoting: 14 "In accordance with Board Order 15 116/12 [comma], Manitoba Hydro filed 16 rate schedules with the PUB on August 17 29, 2012." 18 Do you see that? 19 MR. ROBIN WEINS: Yes. MR. ANTOINE HACAULT: And then there's 20 21 an indication that Manitoba Hydro's understanding of 22 the across-the-board increase was different than the Public Utilities Board understanding and that Manitoba 24 Hydro was requested to file a different rate schedule, 25 correct?

2674 1 MR. ROBIN WEINS: Yes, I see that. 2 MR. ANTOINE HACAULT: And that -- am I correct in understanding that the spreadsheet that's 3 marked at pages -- mine, unfortunately, is punched out, but it would be 155 and 156? 6 MR. ROBIN WEINS: Yes. 7 MR. ANTOINE HACAULT: That there's a comparison between what Manitoba Hydro filed as understanding the Board's order and what the ultimate revision was with the direction of the PUB? 10 11 MR. ROBIN WEINS: Yes, I see that. 12 MR. ANTOINE HACAULT: Could you explain 13 to me how Manitoba Hydro's understanding was different 14 than what it ultimately filed? 15 MR. ROBIN WEINS: Well, Manitoba Hydro filed rates which would yield a increase in revenues of 16 17 2.5 percent for each customer class, which Manitoba 18 Hydro's understanding of an across-the-board rate 19 increase of 2 1/2 percent. 20 As has been recent past practice, the 21 rates filed by Manitoba Hydro emphasize energy charges 22 over demand charges, or relative to demand charges and 23 basic monthly charges. 24 In this case, the Board did not agree with Manitoba Hydro's rate schedules as filed and

- 1 provided some additional direction. And that
- 2 additional direction was that they did not want to see
- 3 any increase in energy charges over and above the  $2\ 1/2$
- 4 precent, that Manitoba Hydro could request increases in
- 5 demand charges up to 2 1/2 percent but no increase in
- 6 basic monthly charges.
- 7 So Manitoba Hydro refiled rates and
- 8 proof of revenue to show that it had complied with the
- 9 direction received from the Board.

10

11 (BRIEF PAUSE)

- 13 MR. ANTOINE HACAULT: Am I correct in
- 14 restating this, that then what Manitoba Hydro refiled
- 15 was not what it viewed to be an across-the-board
- 16 increase?
- 17 MR. ROBIN WEINS: Oh, it -- it is
- 18 certainly consistent with an across-the-board rate
- 19 increase. It -- it simply -- it was not consistent
- 20 with the practice Manitoba Hydro had been taking to
- 21 these types of rate increases in the recent past and
- 22 which the Board had been approving. It was -- it was
- 23 an across-the-board rate increase but with a different
- 24 emphasis among the elements in the rate structure.
- MR. ANTOINE HACAULT: Okay. And if we

2676 go to page 155 in the book of documents of MIPUG, there's a spreadsheet which shows the difference between what the Board requested Manitoba Hydro to file with the further instructions. 5 Is that correct? 6 7 (BRIEF PAUSE) 9 MR. ROBIN WEINS: Yes. This -- this 10 depicts the revenues from the rates that Manitoba Hydro 11 filed and then the revenues from the rates as revised, pursuant to the Board's subsequent direction. So, for example, 13 MR. ANTOINE HACAULT: if we go to the top line, "Basic," and that's under 14 15 "Residential," Manitoba Hydro's initial proposal would have reflected an increase in its revenues from that class of 2.5 percent, correct? That's as filed July 17 18 6th, under that heading. 19 MR. ROBIN WEINS: Approximately 2.5 percent, yes. 21 MR. ANTOINE HACAULT: But now -- and 22 we'll take it one (1) step at a time -- if we use these 23 basic rates, we're starting from a different starting 24 point if we use the revised for PUB, is that correct? Because we're not starting at a 2.5 percent increase

- 1 for the basic charge -- or basic residential; we're
- 2 actually starting with a 2.3 percent increase for that
- 3 category.
- 4 MR. ROBIN WEINS: Yes. With the --
- 5 with the rates that were -- that were subsequently
- 6 filed and the rates that were approved by a subsequent
- 7 order, the increase to the residential rate class was
- 8 2.3 percent relative to the rates that had been
- 9 previously in place.
- 10 MR. ANTOINE HACAULT: And that depends
- 11 -- and it varies, as shown on the extreme right-hand
- 12 side of the table at page 155.
- 13 The diesel customers are also at 2.5
- 14 (sic) percent average increase for that class, correct,
- 15 instead of two point five (2.5)?

16

17 (BRIEF PAUSE)

- 19 MR. ROBIN WEINS: They're definitely
- 20 lower. It's -- it's not quite 2.5 percent that had
- 21 been included in that earlier revenue but it's -- it --
- 22 that -- that subgroup was affected as well.
- 23 MR. ANTOINE HACAULT: And also the
- 24 seasonal, they start at a 1.9 percent increase instead
- 25 of the two point five (2.5) that was sought by Manitoba

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2678
   Hydro?
2
3
                          (BRIEF PAUSE)
 5
                   MR. ANTOINE HACAULT:
                                          I'm looking at
   the right-hand column, the difference between what was
7
   asked and what was approved.
8
                   MR. ROBIN WEINS: Yeah, actually for
   the seasonal, the impact of the rate design that was
10
   originally presented would have yielded a 2.0 percent
11
   increase in revenues for that -- for that group. And
   what has happened is because of the subsequent
13
   direction and the change in the -- in the structure, it
14
   went from 2.0 to 1.9 percent. Admittedly, not very
15
   material, but nonetheless a lesser amount.
16
                   MR. ANTOINE HACAULT: So that overall,
17
    from the residential group of customers, am I correct
18
    in understanding that instead of a two point five (2.5)
19
   overall increase, there's only about a 2.3 percent
20
   increase?
21
                   Is that approximately correct?
22
                   MR. ROBIN WEINS: Yeah, the -- the
23
    increase would have been, to be precise, a little less
24
   than 2.5 percent with the original proposal. But it is
25
   reduced by, as you can see here, seven hundred and
```

- 1 thirty thousand dollars (\$730,000) ultimately, to 2.3
- 2 percent.
- 3 MR. ANTOINE HACAULT: And that is taken
- 4 out on a annual basis, am I correct in understanding?
- 5 Because it forms a base each year, starting from this
- 6 approved interim rate, if it is finalized.
- 7 The residentials will be paying a little
- 8 -- about seven hundred (700) and-some thousand dollars
- 9 less in each year, because that continues, going
- 10 forward, correct?
- 11 MR. ROBIN WEINS: Yeah. Of course, it
- 12 depends on what rate proposals and decisions are made
- 13 in the subsequent years. But, you know, all other
- 14 things being equal that seven hundred and thirty
- 15 thousand (730,000) is lost in that year, and it's
- 16 compounded every year thereafter.
- MR. ANTOINE HACAULT: Thank you. Now,
- 18 if we go to the middle of the page, we've got three (3)
- 19 lines, "Large, 750 V to 30 kVs," down to over a hundred
- 20 kVs, with a line indicating, "GS large."
- 21 Have we located that?
- MR. ROBIN WEINS: Yes.
- 23 MR. ANTOINE HACAULT: And that group is
- 24 ending up paying the full 2.5 percent, correct?
- MR. ROBIN WEINS: That's correct.

- 1 MR. ANTOINE HACAULT: And whereas, in
- 2 the other categories and groups, there is always a
- 3 benefit or a further reduction, if we look -- the only
- 4 one under this group that has some kind of a benefit or
- 5 reduction from the revised instructions are the large
- 6 750 V to 30 kVs.
- 7 Is that correct? There's a column that
- 8 shows a difference of a hundred and sixteen thousand
- 9 dollars (\$116,000) approximately?
- MR. ROBIN WEINS: Yeah, ma --
- 11 mathematically, that -- that's correct. You know, the
- 12 amounts are fairly inconsequential in all cases,
- 13 relative to the total revenue. But, mathematically,
- 14 you're correct.
- MR. ANTOINE HACAULT: Okay. And the
- 16 large 30 to 100 kVs and over a hundred kVs, as you say,
- 17 don't pay a lot more, but they actually end up paying
- 18 more than Hydro's initial application under the revised
- 19 directions of the PUB, correct?
- 20 MR. ROBIN WEINS: It's a little more,
- 21 yes.
- MR. ANTOINE HACAULT: So for the large
- 23 kVs, instead of paying a 186 million, close to 187
- 24 million, they're actually now a little bu -- bit over a
- 25 187 million, paying a hundred and thirty-two thousand

2681 dollars (\$132,000) and a hundred and seventeen (117), on an annual cumulative basis going forward, all things being equal? 3 That is -- that is 4 MR. ROBIN WEINS: 5 correct. And -- and, you know, in the grand scheme of things, that -- that would be rounding. 7 (BRIEF PAUSE) 9 10 MR. ANTOINE HACAULT: Now, Mr. Weins, I 11 don't know whether it takes much to do this, but the 12 res -- if I would ask for a number whereby the GS large 13 and total GS were calculated on the basis of a 2.3 percent overall increase, would you be able to give me 14 15 what numbers that would lead to in -- in this table? 16 Instead of showing for the GS small, GS 17 medium, and GS large, the 2.4 and 2.5 percent, if you 18 gave us the 2.3 percent numbers, would be able to do 19 that? 20 MR. ROBIN WEINS: You're looking for us 21 to constrain the revenue increase with the --22 associated with the September 1, 2012, rate increase to 23 2.3 percent for all of the general service classes and subclasses. Are you also looking for the rates that 24 would be associated with that, or are you merely

- 1 looking for the revenue difference?
- 2 MR. ANTOINE HACAULT: I would just like
- 3 to see what the revenue difference is if we applied an
- 4 equal 2.3 across the board.
- 5 MR. ROBIN WEINS: If you give us a
- 6 couple of minutes, we can certainly give you that.
- 7 MR. RAYMOND LAFOND: Can I intervene
- 8 and ask a question? Essentially, the reason -- the
- 9 difference, as we saw yesterday or the day before, in
- 10 terms of, in some cases, 2.5 percent and some others as
- 11 low as 1.9 percent, is because the Board approved an
- 12 increase in the energy charge and not into the basic
- 13 fixed monthly charge?
- 14 MR. ROBIN WEINS: That would be
- 15 correct.
- 16 MR. RAYMOND LAFOND: And that would --
- 17 that reasoning would apply to all classes?
- MR. ROBIN WEINS: Generally, yes. The
- 19 -- the Board allowed for an increase of 2 1/2 percent
- 20 to both the energy charge and to the demand charge but
- 21 nothing to the basic monthly charges. So the -- what
- 22 you're seeing for the residential and the small general
- 23 service non-demand, they have basic monthly charges.
- 24 And in some cases, they're -- they're at least a
- 25 measurable, if not a significant, part of the bill.

2683 1 So that's why you see that the actually approved rates are yielding less revenue in the case of these classes than they are yielding -- than -- than 3 would have been yielded by the rates that Manitoba Hydro had originally proposed. It's the -- it's the constraint on the -- on the energy rate increased to 2 7 1/2 percent and nothing for the basic monthly charge. 8 When you get into the general service large and -- and the general service medium, 10 theoretically, what the Board approved, in terms of an increase, and what Manitoba Hydro would request would 11 yield the same. Because we're dealing with large 13 numbers of consumption and we don't to go out six (6) 14 decimal places on the rate, rounding is affecting the 15 results. So you'll see some of them are lower and some of them are higher. And that -- that's really an issue 17 related to rounding. 18 19 (BRIEF PAUSE) 20 MR. ROBIN WEINS: We need -- we need 21 another few minutes here for that -- for that 22 23 calculation if you --24 MR. ANTOINE HACAULT: Yeah. 25 MR. ROBIN WEINS: -- want to proceed.

- 2 CONTINUED BY MR. ANTOINE HACAULT:
- 3 MR. ANTOINE HACAULT: Now -- but I
- 4 would like to explore a little bit further the nature
- 5 of the discussion between you and -- and member Board
- 6 (sic) Lafond. Now, if I take you to the table at page
- 7 144, and specifically to the columns 6 and 7, so page
- 8 144, that's the rate change by major class.
- 9 Have you found that?
- MR. ROBIN WEINS: Yes.
- 11 MR. ANTOINE HACAULT: Now, if we go
- 12 across the column numbered 6, we see it's Board Order
- 13 number 34/12. Have you found that?
- MR. ROBIN WEINS: Yes.
- MR. ANTOINE HACAULT: And across, under
- 16 "Residential," we've -- the first thing I'd like to
- 17 establish is the six point seven-seven (6.77) number,
- 18 that includes the 1 percent that we've been talking
- 19 about that was ordered -- or not approved and shown as
- 20 an interim rate, correct?
- 21 MR. ROBIN WEINS: It does include the 1
- 22 percent.
- 23 MR. ANTOINE HACAULT: So Manitoba Hydro
- 24 has, in those numbers, included that 1 percent. Now,
- 25 when it does its proposed rate schedule -- and that's

2685 at line number 7 -- the proposed increase was for 2.5 percent, correct? 3 MR. ROBIN WEINS: Yes. MR. ANTOINE HACAULT: And if we do a mathematical calculation from the six point seven-seven (6.77) cents up to the six point nine-five (6.95) cents, is that 2.5 percent, or is it more than 2.5 percent? 9 10 (BRIEF PAUSE) 11 12 MR. ROBIN WEINS: It is about 2.66 13 percent. 14 MR. ANTOINE HACAULT: So the way 15 Manitoba Hydro deals with the overall increase, going 16 across the board, is, with respect to the energy portion at least on the residential bill, it asks -- it 17 18 actually does a calculation of more than 2.5 percent so 19 that when you take into account the mont -- monthly service charge for all the customer classes, you end up 21 with an average increase of 2.5 percent, correct? 22 That's correct. MR. ROBIN WEINS: 23 MR. ANTOINE HACAULT: Now, with respect 24 to the large consumers, you've indicated that there's a demand charge. Is that relatively similar to a 25

- 1 customer charge, but for the larger customer?
- 2 MR. ROBIN WEINS: No, because the basic
- 3 monthly charge is a fixed monthly charge. It doesn't
- 4 vary with respect to any of the elements of the
- 5 customer's usage. The demand charge will vary,
- 6 depending on what maximum usage the customer has in
- 7 that particular month, along with a couple of other
- 8 potential factors which could affect what we call
- 9 billing demand.
- 10 So the billing demand is equal to the
- 11 higher of the actual maximum peak demand in the month,
- 12 or 25 percent of the highest maximum demand in the
- 13 previous twelve (12) months, or 25 percent of the
- 14 customer's contracted demand. So the -- the contracted
- 15 demand or the last twelve (12) months' experience
- 16 represents a floor. And in that sense, that could be
- 17 seen to be somewhat of a fixed charge. But the other,
- 18 which is usually the one (1) that applies, the actual
- 19 demand in that month, is going to be variable,
- 20 depending on the demand that the customer sets.
- 21 MR. ANTOINE HACAULT: Now, am I correct
- 22 in -- and if I look at this table -- and I could have
- 23 brought it back -- further back -- is that for the
- 24 general service large, Manitoba Hydro's practice to
- 25 date, or at least until September 2012, was to not

- 1 increase that demand charge?
- 2 So that if we look in the table on the
- 3 right-hand columns at the top, for GSL 30 to 100 kVs
- 4 the demand charge was put at six dollars and six cents
- 5 (\$6.06), correct?
- 6 MR. ROBIN WEINS: Correct.
- 7 MR. ANTOINE HACAULT: That was for
- 8 April 1, 2009, correct?
- 9 MR. ROBIN WEINS: Yes.
- 10 MR. ANTOINE HACAULT: That remained
- 11 unchanged for April 1, 2010, correct?
- MR. ROBIN WEINS: Yes.
- MR. ANTOINE HACAULT: Again, it
- 14 remained unchanged for the April 1, 2011, correct?
- MR. ROBIN WEINS: Yes.
- 16 MR. ANTOINE HACAULT: And it remained
- 17 unchanged for the April 1, 2012, at six dollars and six
- 18 cents (\$6.06) correct?
- MR. ROBIN WEINS: Yes.
- 20 MR. ANTOINE HACAULT: And it also
- 21 remained unchanged in the proposal which Manitoba Hydro
- 22 had done for the September 1, 2012, interim rate
- 23 increase, correct?
- MR. ROBIN WEINS: Yes.
- MR. ANTOINE HACAULT: And you had

- 1 indicated, if I understand correctly, that was because
- 2 Manitoba Hydro was putting more emphasis on the energy
- 3 portion than the demand portion, correct?
- 4 MR. ROBIN WEINS: That's correct.
- 5 MR. ANTOINE HACAULT: Now, I know we're
- 6 not in cost of service right now, but if we go lines
- 7 10, 11, and 12, which is a summary of the cost of
- 8 service, continuing again under the line of, "General
- 9 service large, 30-100 kV," what's the indication, at
- 10 least in the cost of service study, as to what an
- 11 appropriate number would be for the demand cost?
- MR. ROBIN WEINS: And this -- you want
- 13 to reference the 30 to 100 kV class?
- 14 MR. ANTOINE HACAULT: kV -- I -- in the
- 15 table, I have five dollars and eighty cents (\$5.80) for
- 16 the PCOSS11.
- Would that be correct?
- 18 MR. ROBIN WEINS: That would be -- that
- 19 would incorporate the capacity-related costs out of the
- 20 cost of service study.
- 21 MR. ANTOINE HACAULT: And also the
- 22 customer-related costs?
- 23 MR. ROBIN WEINS: They would have been
- 24 included with the capacity-related costs. They're
- 25 relatively minor in the case of -- of these large

- 1 customers, and -- and that's why there is no customer
- 2 charge.
- 3 MR. ANTOINE HACAULT: So at least
- 4 directionally, keeping the six dollars and six cents
- 5 (\$6.06) at the same level is directionally consistent
- 6 with what the cost of service study is showing,
- 7 correct?
- 8 MR. ROBIN WEINS: Yes. I'm not saying
- 9 that that's the only factor that should affect the
- 10 demand charge, but, yes, it is directionally
- 11 consistent, or approximately consistent.
- 12 MR. ANTOINE HACAULT: At least from
- 13 that particular factor -- and there's other factors, as
- 14 you said, are considered -- increasing the dam --
- 15 demand charge would be directly -- directionally
- 16 inconsistent, all things being equal?
- 17 MR. ROBIN WEINS: You would have to
- 18 have some other factor to discuss why you would want to
- 19 do that.
- 20 MR. ANTOINE HACAULT: And we saw the
- 21 indication of the Board order that we would be looking
- 22 at the cost of service and segregating those things,
- 23 but we can see it's pretty difficult to do that. All
- 24 of a sudden, we see the demand charges, which were
- 25 staying at six (6) point -- at six dollars and six

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2690
   cents ($6.06), increasing to six twenty one (6.21), not
   having had a chance to review the cost of service yet,
   correct?
3
5
                          (BRIEF PAUSE)
 6
                  MR. ROBIN WEINS: I'm sorry, Mr.
   Hacault.
9
                  MR. ANTOINE HACAULT: That's -- take --
10
   it's -- it's going to be a great answer; I can just
11
   feel it.
12
                  MR. ROBIN WEINS: Well, it -- it will
  be if I can hear the question again.
14
                  MR. ANTOINE HACAULT: Yeah, maybe we
15
   can move on. My -- my indication was that it's
   segregating these increases, which the Board -- you
   understood the Board to suggest that the demand
17
18
   increase should also increase the 2.5 percent, whereas
19
   you had proposed no increase in the demand charge.
20
                   It's not necessarily a clear-cut issue,
21
   because there are factors, such as the cost of service,
   which enter into that kind of a decision?
22
23
                  MR. ROBIN WEINS: Well, the -- the
24 Board was allowing a -- an across-the-board revenue
25
   increase. And at the same time, they wanted to
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- 1 constrain the increase to the energy need. So,
- 2 frankly, to have an across-the-board increase without
- 3 increasing the demand charge would not have been
- 4 possible.
- 5 So, you know, I take your point that the
- 6 cost of service results should be a factor that are
- 7 considered. And -- and certainly, if we were looking
- 8 at something significantly more material than that,
- 9 that weighting, you know, should be considered more.
- 10 MR. ANTOINE HACAULT: Thank you. Now,
- 11 in your testimony yesterday -- and I'm reverting back
- 12 to the residential customers on page 144 of our book of
- 13 documents. It's still on the same schedule.
- 14 We've seen that the customer charge has
- 15 remained constant at six dollars eighty-five cents
- 16 (\$6.85), correct?
- MR. ROBIN WEINS: Yes.
- 18 MR. ANTOINE HACAULT: And I believe you
- 19 indicated that, in some other jurisdictions, that
- 20 charge might be more in the range of nineteen dollars
- 21 (\$19) and twenty dollars (\$20) per month, correct?
- 22 MR. ROBIN WEINS: Yeah, frankly it --
- 23 it's, you know, up to that high and -- and could --
- 24 everything in between, if you look at other
- 25 jurisdictions. Manitoba Hydro is toward the low end

- 1 of basic monthly charges.
- 2 MR. ANTOINE HACAULT: And if we go down
- 3 to lines 10, 11, and 12 of this particular table, am I
- 4 right in understanding that the cost of service study
- 5 is suggesting that the customer cost per month is in
- 6 the range of twenty (20) to twenty-one dollars (\$21)?
- 7 MR. ROBIN WEINS: Yes, you -- that
- 8 would be correct.
- 9 MR. ANTOINE HACAULT: So, as you
- 10 indicated, there is various policy reasons, et cetera,
- 11 that you're going to come to the six dollars and
- 12 eighty-five cents (\$6.85).
- But at least the cost of service matches
- 14 some of what is being charged in some other
- 15 jurisdictions, correct?
- 16 MR. ROBIN WEINS: And -- and the cost
- 17 of service -- the -- the facilities that are being
- 18 recognized in that nineteen (19) or twenty (20) or
- 19 twenty-one dollars (\$21) here include costs related to
- 20 providing service to the customer: customer service,
- 21 billing costs, the cost of the on-site services, such
- 22 as meters and service drops.
- 23 And they do include a portion of the
- 24 main distribution area, which approximately 40 percent
- 25 are poles and wires, which are also, in various

- 1 degrees, reflected in other utilities' costs of
- 2 service. So that's the range of costs that are being
- 3 recovered, or -- or not recovered, in the customer
- 4 charge.
- 5 MR. ANTOINE HACAULT: Thank you.
- 6 Members of the Board, I probably have twenty (20)
- 7 minutes or so related to the Curtailable Program. You
- 8 recall I had indicated I had three (3) areas. I don't
- 9 know if it's the wish of the Board to take a break now?
- 10 I have basically covered the history and the
- 11 illustration of some issues in the rates.
- 12 Perhaps the -- Mr. Weins, do you now
- 13 have that number on that 2.3 percent for the GS?
- 14 MR. ROBIN WEINS: I -- I have some
- 15 numbers. I don't have all of them. If you'll just --
- 16 if you can bear with me for -- for another short while,
- 17 we'll have all of them for you.
- 18 MR. ANTOINE HACAULT: So perhaps we can
- 19 take a break and he can provide us with the numbers at
- 20 the break, and I can complete my examination on the
- 21 curtail -- curtailable issue?
- 22 THE CHAIRPERSON: Agreed. Let's --
- 23 okay, thank you, Monsieur Hacault. Let's take ten (10)
- 24 minutes, then. Thank you.

2694 --- Upon recessing at 10:25 a.m. --- Upon resuming at 10:43 a.m. 3 THE CHAIRPERSON: I believe we're ready to resume proceedings. I -- during the break, we determined that there was no order issued as a result of the -- the rate order -- I'm looking for -- I'm 7 searching in my mind for the -- the number of the order -- but as a result of the -- the decision that -- the finalizing the rates at 1.9 percent as of April 1st, 10 11 2010, there was no subsequent order issued by the Board that listed the actual rate impact of that decision. What I do have that I want to read into 13 the record is an extract from Order number 32/12, page 14 15 8 of 9. So I'll read it into the record. It's the --16 the second to the last paragraph: 17 "As for Manitoba Hydro's request to 18 include the funds in the deferral account as net income for 2011/'12 19 20 and to determine the 1 percent rate rollback as a base rate, these 21 22 requests will be denied in this 23 interim order. 24 "Based on the evidence available to 25 the Board at this time, the Board is

1	2695 unable to conclude those requests are
2	in the public interest. The 1
3	percent rate rollback is to remain in
4	the billed rates to consumers, and
5	the accruing related revenues are to
6	remain in the deferral account until
7	further order of the Board."
8	So, in effect, the the rates that had
9	been approved by the Board on an interim basis as of
10	April 1st, 2010, were retained. The customer kept
11	paying those rates, and the 1 percent rate rollback was
12	put into a deferred account in accordance with the
13	order of the Board. So there was no there was no
14	reposting, as it were, of the actual rates less the 1
15	percent rate rollback to the public.
16	Now I would suggest, Maitre Hacault,
17	that probably if you have some concerns, that maybe
18	that those might belong as part of your closing
19	arguments for the Board to entertain.
20	MR. ANTOINE HACAULT: Thank you, Mr.
21	Chair.
22	
23	CONTINUED BY MR. ANTOINE HACAULT:
24	MR. ANTOINE HACAULT: Mr. Weins, before
25	the break, you were going to see whether or not you

- 1 could provide calculations related to page 155. So
- 2 that's 155 of our book of documents. It's a
- 3 spreadsheet showing the difference between what
- 4 Manitoba had filed on July 6th and what was a revised
- 5 rate schedule by the PUB.
- 6 And I had asked that Manitoba Hydro
- 7 perform calculations that would tell us what the effect
- 8 would be on the April 12, 2000, rates if we gave to the
- 9 general service customers the same rate increase of
- 10 approximately 2.3 percent.
- 11 Have you had the opportunity to perform
- 12 those calculations?
- 13 MR. ROBIN WEINS: Yes, we have. What
- 14 we did was we simply took the -- the revenue at -- if
- 15 you -- if you want to refer back to your exhibit, page
- 16 155, the -- the first column of numbers is the revenue
- 17 at April 2012 rates.
- 18 MR. ANTOINE HACAULT: Correct.
- 19 MR. ROBIN WEINS: What we simply did to
- 20 carry out this calculation was add 2.3 percent, a
- 21 straight 2.3 percent, to that.
- 22 So if you want to take a look first at
- 23 the large 750 volts to 30 kV, that number would be
- 24 eighty-four million, eight hundred and fifty-six
- 25 thousand, eight hundred and seventy-six (84,856,876).

- 1 And that compares with the third column, which was the
- 2 -- which was headed, "September 2012 Revised per PUB,"
- 3 of eight-four, nine-one-eight, o-five-two (84,918,052),
- 4 with a difference being sixty-one thousand, one hundred
- 5 seventy-six (61,176). That's the difference between
- 6 the 2.3 percent and the revenue based on what was
- 7 actually approved by the Public Utilities Board.
- 8 For the next group of general service
- 9 large 30 to 100 KV, with a 2.3 percent it is forty-four
- 10 million, one hundred and seven thousand, nine hundred
- 11 and fifty-eight (44,107,958). And that compares with,
- 12 again, the third column of forty-four million, one
- 13 hundred and seventy-seven thousand, seven fifty-one
- 14 (44,177,751), for a difference of sixty-nine thousand,
- 15 seven hundred and ninety-two (69,792).
- 16 Finally, for the general service large,
- 17 the 2.3 percent would yield one-eight-six million,
- 18 seven-one-two, o-seven-eight (186,712,078), which
- 19 compares with one-eight-seven, o-eight-two, seven-six-
- 20 five (187,082,765) in the third column. And that would
- 21 be a difference of three hundred and seventy thousand,
- 22 six eighty-seven (370,687).
- 23 Overall, the difference for the three
- 24 classes combined of general service large is five
- 25 hundred and one thousand, six hundred and fifty-five

2698 (501,655). 2 MR. ANTOINE HACAULT: So in a very general way, we had talked about the residential customers, as a result of these revised calculations, getting an ongoing base reduction of about seven hundred and thirty thousand (\$730,000) dollars correct? 7 MR. ROBIN WEINS: Yes, that's correct. MR. ANTOINE HACAULT: And an non -- an ongoing basis, the GS large has, built into the base, approximately half a million dollars more instead of a 10 11 half a million dollars less, correct? 12 13 (BRIEF PAUSE) 14 15 MR. ROBIN WEINS: Sorry, I -- I don't 16 follow that. 17 MR. ANTOINE HACAULT: If the GS large 18 had also benefited from -- and this is maybe a matter 19 of argument -- but across the board at 2.3 percent, they would in fact be paying annually about a half a million dollars less? 21 22 MR. ROBIN WEINS: That's correct. 23 24 (BRIEF PAUSE) 25

2699 MR. ANTOINE HACAULT: And am I fair, 1 before moving to the curtailable, that then we had come to the total of about 9 percent, including the 1 3 percent rollback that you're seeking to keep, the other -- all the additional amounts came to about 9 percent, correct? 7 MR. ROBIN WEINS: Yeah, cum -cumulative, relative to where the rates would have stood at April 1, 2011, had the final order been 10 applied, rather than the interim order. 11 MR. ANTOINE HACAULT: So that about a year and a half, we're looking about 9 percent 13 increase. 14 MR. ROBIN WEINS: Well, another way of 15 looking at it is -- is over three (3) rate changes or 16 three (3) rate periods -- April 1, 2011; April 1, 2012; 17 April 1, 2013 -- and applying right until -- until the 18 end of the 2013/'14 fiscal year. 19 MR. ANTOINE HACAULT: Thank you. 20 21 (BRIEF PAUSE) 22 23 MR. ANTOINE HACAULT: I guess the only 24 thing -- and maybe it's just quibbling a bit. Really, 25 the order, going back to the 2011 numbers, was rendered

2700 in January of 2012, because that was an extraordinarily long hearing. 3 And in fact, customers only knew what the final rates would be in January of 2012 with respect to the previous applications, correct? 6 MR. ROBIN WEINS: Well, that's when 7 they would have known. But I -- you know, I think characterizing -- characterizing the rate increases, I think you -- you do need to look at them as applying to -- you know, what periods they apply to. And in that 10 respect, your cumulative of 9 percent is -- is -- 9 11 percent over what would have applied on April 1, 2011; 13 8 percent over what actually applied on April 1, 2011; over a period that will last until March 31st, 2014. 14 15 MR. ANTOINE HACAULT: I'll move now to 16 curtailable rates. And that would be at tab 11 of our 17 Exhibit 6. That's the binder. 18 19 (BRIEF PAUSE) 20 21 MR. ANTOINE HACAULT: There was some 22 discussion yesterday with respect to demand-side 23 management. Am I correct in understanding, at least in 24 my review of the Power Smart report at page 62, that 25 this Curtailable Rate Program is a pretty significant

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2701
   item in the demand-side management portfolio?
 2
 3
                          (BRIEF PAUSE)
 5
                   MR. ANTOINE HACAULT:
                                          Unfortunately, I
   don't have it as part of my material, but my notes
   indicate that it's shown at -- as 154.5 megawatts out
   of a total of 210.3 megawatts.
 9
                   MR. ROBIN WEINS: Yeah, as a general
10
   response, on -- on the capacity side of the demand-side
   management portfolio it -- yes, it is a significant
11
12
   portion of it.
13
                   MR. ANTOINE HACAULT: Now, another
14
   thing that wasn't discussed much -- and it's perhaps
15
   just a lack of knowledge -- to what extent do you --
   and that could be either Mr. Weins or Mr. Cormie --
17
   know the extent of investment put in by corporations,
18
   either through staff training or equipment setup, et
19
   cetera, so that they can make the Curtailable Rate
20
   Program work?
21
22
                          (BRIEF PAUSE)
23
24
                   MR. ROBIN WEINS: I -- I don't believe
25
    I can answer that -- that question.
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2702 MR. ANTOINE HACAULT: 1 There was some reference in the rebuttal of Manitoba Hydro at page 42, lines 1 and 2, to the fact that companies would be 3 investing to make sure that they can take advantage of this program. And that was only my point. 6 Is that consistent with your 7 understanding? 8 9 (BRIEF PAUSE) 10 11 MR. ANTOINE HACAULT: I'm just quoting 12 from the rebuttal at page 42: 13 "The investments existing CRP 14 Curtailable Rate Program | customers 15 may have made to be capable of 16 providing this service." 17 MR. DAVID CORMIE: Yes, Mr. Hacault. 18 As -- as we have met with the individual customers in 19 the program as we were developing it, we -- we knew that they were adjusting their processes. And -- and 21 potentially, as they expanded their facilities, they 22 may be adjusting -- making investments, assuming that 23 it was there. But we don't really have any detail of 24 what those were, you know, what those specific 25 investments are. But we are aware that they -- they

- 1 want to take advantage of this to the extent that they
- 2 can, and they'll adjust their operations and invest
- 3 accordingly.
- 4 MR. ANTOINE HACAULT: Thank you.
- 5 MR. DAVID CORMIE: I think that is --
- 6 is the reason that we want to be sensitive to having
- 7 customers cut out of the opportunity of continuing to
- 8 participate in the program. And as Mr. Weins described
- 9 yesterday, we're -- we're happy to retain the existing
- 10 customer base. And to the extent that we need to do
- 11 that because of this ongoing relationship, we will.
- 12 But we'd like to just limit the new participants for
- 13 now, and that's why we're putting the caps in place.
- 14 MR. ANTOINE HACAULT: Am I correct that
- 15 this program has been in place for approximately twenty
- 16 (20) years?
- 17 MR. ROBIN WEINS: To the best of my
- 18 recollection, that would be pretty close. I think
- 19 sometime in 1993 or 1994 it was -- it was given initial
- 20 approval by the Public Utilities Board.
- 21 MR. ANTOINE HACAULT: And there have
- 22 been various levels of customer participation over this
- 23 time period, correct?
- 24 MR. ROBIN WEINS: Yeah, there have been
- 25 changes in -- in the customer mix and the levels of

- 1 customer participation. But the program's been in
- 2 place for that long.
- 3 MR. ANTOINE HACAULT: And am I right to
- 4 understand that the way Manitoba Hydro calculates the
- 5 value of this alternative capacity is specifically
- 6 related to its combustion turbines?
- 7 MR. DAVID CORMIE: Not our combustion
- 8 turbines, but the costs -- the carrying costs of a new
- 9 combustion turbine facility. Originally, we had it
- 10 tied to market. And because the market value of
- 11 capacity was fluctuating and there were issues
- 12 associated with exchange rate, the whole process of
- 13 determining the value on an ongoing basis became very
- 14 complex.
- 15 And so we proposed to the customer that
- 16 as a proxy we would use the -- the carrying charges of
- 17 a -- a new simple-cycle combustion turbine that wasn't
- 18 operating, it was just sitting there, and the cost of
- 19 carrying that capacity. And -- and we use about for --
- 20 42 percent of that value as the -- the reference
- 21 discount for a customer who participates in both 'A'
- 22 and 'E'.
- So that's as close as we can get to
- 24 being a generator, but it still -- because of the
- 25 constraints, it's still only 42 percent the value of a

- 1 generator. But -- but it -- it -- it's tied to the
- 2 cost of a -- a combustion turbine. And that doesn't
- 3 fluctuate.
- And as I mentioned the other day, in
- 5 some years the value capacity is very high, and
- 6 Manitoba Hydro does very well selling that capacity.
- 7 And then there's years like this year, where the market
- 8 value of the capacity is very low and we don't -- we
- 9 don't make a lot of money.
- 10 And we -- we couldn't -- the customers
- 11 couldn't have the rate change constantly, based on
- 12 market. It -- it didn't work for them. And so in
- 13 order to provide some revenue predictability and
- 14 stability, we reverted to that -- that simple model,
- 15 and -- and it gets adjusted on an -- for inflation.
- 16 MR. ANTOINE HACAULT: Thank you. And
- 17 initially that value was at two dollars (\$2) and
- 18 seventy-five dollars (\$75) (sic) per kilowatt hour, and
- 19 it's increased over time according to the report,
- 20 subject to check?
- 21 MR. ROBIN WEINS: You know, I don't
- 22 remember the entire history of it. I -- I seem to have
- 23 a recollection that it actually started somewhat lower
- 24 than that, but we may have come back with an
- 25 application subsequently. So, you know, we'll take

- 1 what you've said subject to check.
- 2 MR. ANTOINE HACAULT: I -- the initial
- 3 reference discount that I was referring to I had found
- 4 at page 166 of our book of documents. There's a
- 5 discussion in the report about the reference discount
- 6 and how that was set initially at the two dollars
- 7 seventy-five (\$2.75) and increased by inflation, as I
- 8 understood this text, so that it is now three dollars
- 9 and seventeen cents (\$3.17). That's in the second
- 10 paragraph under the heading.
- 11 Have you found that?
- MR. ROBIN WEINS: Yes, I see that.

13

14 (BRIEF PAUSE)

- 16 MR. ANTOINE HACAULT: Now, you said
- 17 there was some customer turnover over time. Are you
- 18 able to recall how many additional people -- or people
- 19 or companies used the program over that time period?
- 20 We have three (3) now.
- 21 But what would it have been over the
- 22 time period of the program in a -- as an estimate?
- 23 MR. ROBIN WEINS: If -- if it were
- 24 really important, we could get that information and --
- MR. ANTOINE HACAULT: Yeah.

- 1 MR. ROBIN WEINS: -- and put it on the
- 2 record. You know, trying to recall over the years -- I
- 3 -- I can recall certainly two (2) others that had been
- 4 in the program and no longer are.
- 5 MR. ANTOINE HACAULT: So it's not a
- 6 huge number. It would be a smaller number that came in
- 7 and out of that program, is that fair, to your
- 8 recollection?
- 9 MR. ROBIN WEINS: Yeah. They -- as --
- 10 in terms of numbers, they were small. But if I recall
- 11 correctly, there was a fairly significant load attached
- 12 to both of those customers.
- MR. ANTOINE HACAULT: Okay. Thank you.
- 14 MR. DAVID CORMIE: And that -- and
- 15 that's because the -- they -- this customer has to have
- 16 the unique capability, and we just don't have a lot of
- 17 large industrial customer from which to select. So it
- 18 is -- you know, Mr. Weins had a very select handful of
- 19 companies that may or may not participate.
- 20 MR. ANTOINE HACAULT: Thank you. I'm
- 21 flipping back to page 163 of our book of documents.
- 22 It's page 2 of 9 of the report. And I just want to
- 23 look at certain statements that were made in this
- 24 report. And the first full paragraph, it's page 2 of
- 25 9, but in our book of documents page 163, there's a

2708 statement: 2 "Cur -- curtailable load provides 3 value to Manitoba Hydro all year round, as curtailments for system 5 emergencies can occur at any time of 6 the year." That continues to be true? MR. DAVID CORMIE: Yes. And there's value even -- even if we don't exercise it, because we 10 have to be prepared to deal with emergencies, and 11 having a curtailable load is one (1) of the options 12 that we have. Thank you. 13 MR. ANTOINE HACAULT: The 14 next paragraph describes what I'll say is risk 15 mitigation benefits. And there's a heading, "High 16 Water Supply." 17 What option load is useful, and why is 18 it useful? 19 MR. DAVID CORMIE: As I described the other day, our -- our portion of the contingency 21 reserve obligation is 150 megawatts. And of that, 22 sixty (60) has to be spinning, ninety (90) has to be 23 supplemental. And without the curtailable load, 24 Manitoba Hydro would have to hold other generation in 25 reserve to meet that.

- 1 Under high-water conditions, holding
- 2 back any hydraulic generation for reserve operation
- 3 means that water can't pass through the turbines. It
- 4 has to go through the spillway. And by being able to
- 5 run those generators with all the gates open and
- 6 utilize that capacity that we would otherwise be
- 7 holding back in reserve, generates revenue.
- In an average-water year, we're not --
- 9 we're not spilling. So -- because -- and so we can
- 10 hold -- we -- we can run the units efficiently and we
- 11 have that reserve capability. But in a high-water
- 12 year, not having that option, our load available means
- 13 that we have to back down our -- our hydro units to
- 14 create the reserve results in spill.
- So there's a -- there's -- there's good
- 16 value in -- in those year of -- of -- in those times of
- 17 spillage, from having -- being able to reduce the -- to
- 18 increase the hydraulic generation. And that value
- 19 occurs in -- in high-water conditions.
- 20 MR. ANTOINE HACAULT: Thank you.
- 21 There's another heading on that same page, 2 of 9, page
- 22 163 of our book of documents, under "Average Water
- 23 Supply." There's an explanation there that:
- 24 "Manitoba Hydro can capture the
- 25 benefit of the price differential

2710 1 between off -- on- and off-peak 2 periods." 3 How -- could you help me understand how the curtailable load program assists in that? 5 MR. DAVID CORMIE: So in -- in the average water condition, to the extent that we have to carry a reserves on the hydraulic units, those units 7 aren't producing electricity, because that capacity is being held in reserve. Therefore, the water that's --10 that would otherwise be generated in high-value periods gets transferred to the low-value periods. And the 11 12 differential between the value -- the on-peak value and 13 the off-peak value is the benefit. 14 So in -- in a high-water period you get 15 the full value of the energy. In an average-water year 16 you get the -- just the differential between the on and 17 off peak, because the water that's held back goes into 18 storage, and it's released at another time of lower 19 value. 20 MR. ANTOINE HACAULT: And both those 21 benefits can be achieved without actually exercising 22 the option of interrupting those customers. Is that 23 correct? 24 MR. DAVID CORMIE: Yes. The -- we have 25 to take the action of taking the hydro unit out of

2711 service and holding it back, whereas with the option our customer -- the customers -- his -- his load can be curtailed at the moment it's actually needed, and we don't have to do anything until there's an eme -- until there is a -- a need for those supplemental reserves. 6 MR. ANTOINE HACAULT: Thank you. Can I take you to page 4 of 9 of the report? It's at page 7 165 of our book of documents. It's the page that discusses the times when Manitoba Hydro actually 10 exercised its options for curtailment. 11 My first question is: There's an Option A that was exercised that's shown on June 24, 2011. 13 And the text explains: 14 "It was initiated to protect firm 15 export schedules following a MISO-16 Manitoba Hydro CRSG event." 17 Could you explain that, please? 18 19 (BRIEF PAUSE) 20 MR. DAVID CORMIE: A CRSG event is a 21 22 contingency reserve sharing group event. And this is the -- this is the arrangement that Manitoba Hydro has 24 with MISO, where we share in providing reserves. The contingency reserve pool is 2,000 megawatts. Manitoba

- 1 Hydro provides a hundred and fifty (150) of that; MISO
- 2 provides 1,850 megawatts.
- 3 A -- a system emergency resulted in
- 4 Manitoba Hydro having to deliver its 150 megawatts
- 5 under the agreement. Manitoba Hydro, had it not
- 6 curtailed the Option A load, would have had to curtail
- 7 export transactions that have -- that are capacity
- 8 backed. And under our emergency operations procedures,
- 9 we curtail curtailable load in order to protect firm
- 10 export sales if the curtailable load is available. And
- 11 so to the extent that we have curtailable load, it gets
- 12 used before we ex -- we -- we cut the export.
- We will cut the non-firm exports first
- 14 before we use curtailable load, but we use the
- 15 curtailable load to provide capacity on our system, in
- 16 effect, to -- to firm up the export capacities.
- 17 If we got to the point where Manitoba
- 18 load was at risk, we would then ultimately cut the --
- 19 the capacity back to export sales because we are
- 20 allowed to do that. But we will use our curtailable
- 21 load to protect the capacity associated with the firm
- 22 export transactions.
- 23 MR. ANTOINE HACAULT: And am I correct
- 24 in understanding this table that on that particular
- 25 day, Manitoba Hydro not only exercised its Option A,

- 1 but it also exercised an Option R, for a total capacity
- 2 of over 150 megawatts, actually 168 megawatts total?
- MR. DAVID CORMIE: Yeah, it appears
- 4 from that table that those were simultaneous events
- 5 because of the -- the duration is exact. So I am
- 6 assuming that they are the same event.
- 7 MR. ANTOINE HACAULT: I believe I
- 8 understood the testimony yesterday to be that, most
- 9 likely, Hydro would have to call on these types of
- 10 options in the winter months because of the existing
- 11 Manitoba load and demand being higher in winter.
- But this is an example of where, even in
- 13 the lower Manitoba demand in summer, that this program
- 14 was still useful, correct?
- MR. DAVID CORMIE: It's useful year
- 16 round, Mr. Hacault. I've got a few examples here. We
- 17 had a severe storm at Dorsey in August of 2010. We
- 18 lost 1,750 megawatts. We would have called on
- 19 curtailable load at that time. June the 2nd, 2008, we
- 20 had forest fire along the DC line. We lost almost
- 21 2,000 megawatts of generation. In May of 2009, there
- 22 was an incident where a farm cedar knocked out the guy
- 23 wire of a DC tower. In March of 2009, we lost 1,500
- 24 megawatts as a result of icing on the DC line. So it -
- 25 it can happen year round.

2714 MR. ANTOINE HACAULT: During any of 1 those other events which you've listed, Mr. Cormie, did you call on more than 150 megawatts? In the example 3 that we went through at page 4 of 9, it was more than a hundred and fifty (150). 6 But those other events, were any of those the type of events where you exercised an option 7 which involved more than a 150 megawatts? 9 MR. DAVID CORMIE: Well, the 150 10 megawatt obligation that Manitoba Hydro now -- started in -- on January the 1st, 2010, because that's when the 11 new Contingency Reserve Sharing Agreement with MISO 13 took place. Prior to that, our obligation to supply reserves may have been higher, and I just don't have 14 15 the details. 16 But I would assume that -- to the extent that we had curtailable load under these events, we 17 18 would have exercised it. These are, you know, 19 thousands of megawatts. And -- and the megawatts available under the Curtailable Load -- Load Program 21 would have been used very quickly to help out. 22 23 (BRIEF PAUSE) 24 25 MR. ANTOINE HACAULT: So then am I

2715 correct in understanding that it's not only the 150 megawatts that you'd broken down into spinning and nonspinning power that gives value to Manitoba Hydro under 3 the Curtailable Rate Program? 5 6 (BRIEF PAUSE) MR. DAVID CORMIE: Yeah. Yes. It's not just the provision of contingency reserves that pro -- provide value. There's a value in other -- in -- in 10 emergencies beyond that. And if the -- to the extent 11 12 that the -- we can use the Option R load to meet our 13 reserve obligation, we do. To the extent that we've 14 already satisfied our reserve obligation using the 15 Option R and there's still a need for curtailable load -- or -- or capacity, then that's when the -- the Option A load would be used, because it is -- it is 17 18 curtailable in emergency events. 19 So it not only -- in -- in -- it's not only useful in reestablishing our reserves, but the 21 provisions of the -- of the program provide it to be 22 used during emergencies as well. 23 MR. ANTOINE HACAULT: The one (1) thing 24 that it does not do -- and you explained that -- and 25 this is as a result of customer complaints, as I

- 1 understood. And it's at page 3 of 9 of your report.
- 2 At the top it in -- indicates that Manitoba will --
- 3 Hydro will not initiate load curtailments in order to
- 4 facilitate an opportunity spot market sale.
- 5 Is that correct?
- 6 MR. DAVID CORMIE: Yes. You know, the
- 7 -- the terms and conditions allow us up to a maximum
- 8 number of events in a year, and there were several
- 9 years where we -- we used them. We -- we said we
- 10 bought forty (40) curtailments, we're going to use them
- 11 all. And we were using them for economic advantage.
- 12 That really created problems with our
- 13 customers. And we went through a period of discussion,
- 14 and -- and we changed the -- the -- limited the use of
- 15 curtailable to deal with emergencies and reestablishing
- 16 so that -- that we weren't using it for economic
- 17 dispatch.
- 18 THE CHAIRPERSON: Mr. Cormie, looking
- 19 to the -- looking to page 165, looking on the June 24
- 20 event, did you -- did you actually curtail the rate --
- 21 sorry, did you actually curtail the power to that
- 22 plant, or did you -- to that customer? Or it was
- 23 simply to say -- put the no -- the customer on notice
- 24 that we may -- we may pull the power because we need it
- 25 at the rese -- we need it for reserve obligations?

2717 MR. DAVID CORMIE: No, the -- the 1 events shown here, the 118 megawatts that the customer reduced their load by a hundred eighteen (118) for 3 point two-three (.23) hours, which would be fifteen (15) minutes, approximately fifteen (15) minutes they would come down. So it is actually -- these are actually reductions in load that -- that the customers 7 provided. So it's not just putting them on standby. They -- they did curtail. 10 11 (BRIEF PAUSE) 12 13 CONTINUED BY MR. ANTOINE HACAULT: 14 MR. ANTOINE HACAULT: Now, with respect 15 to the fact that Manitoba Hydro won't initiate load cur 16 -- curtailments under the program for opportunity spot market sales, that's true of other programs too? 17 18 There's no programs that exist right now 19 that Manitoba Hydro offers to customers to say, Well, curtail your load because we've got great opportunity 21 spot market sale? 22 MR. DAVID CORMIE: No, we have -- we 23 have -- we don't have any programs that have those 24 provisions. 25 MR. ANTOINE HACAULT: Now, if I

- 1 understood your explanation correctly yesterday, for
- 2 capacity issues, you believe that those prices and that
- 3 situation may change in the upcoming years in the
- 4 United States?
- 5 MR. DAVID CORMIE: Yes. The -- the
- 6 MISO market rules have -- are evolving such that
- 7 Manitoba Hydro can now begin to participate in the
- 8 voluntary capacity auction. And -- and our capacity is
- 9 now deemed to be deliverable. And so we've begun
- 10 selling capacity forward for -- as we used to under --
- 11 under the MAPP Generation Reserve Sharing Program.
- 12 Unfortunately, the market prices are --
- 13 are very, very low. But we expect that -- that, given
- 14 this market rule change and the impending shutdown of -
- 15 of a large amount of capacity in the US, that the
- 16 value will -- will increase and that -- as -- as the
- 17 price goes up.
- For the summer season of 2013, we -- we
- 19 have sold some capacity for the -- for the summer
- 20 season. So not only is it available -- is -- is the
- 21 market now available to Manitoba Hydro, but we are
- 22 participating.
- 23 MR. ANTOINE HACAULT: Thank you very
- 24 much. Now, am I correct in understanding that
- 25 curtailable load could also be used to backstop

- 1 Manitoba Hydro's Brandon combustion turbines and its
- 2 gas-fired steam turbines at Selkirk?
- Would that be a possibility?
- 4 MR. DAVID CORMIE: Yes, that was a -- a
- 5 possibility. And we -- we reviewed that a year ago.
- 6 Under our new contracts that are -- that sell capacity
- 7 into the MISO market, Manitoba Hydro has an obligation
- 8 to make sure that the capacity is available during
- 9 emergency events.
- 10 And if there are situations when
- 11 Manitoba Hydro has chosen to serve its export sale by
- 12 purchasing power out of the market, we really have our
- 13 generating stations shut down -- or -- or backed down.
- 14 So if we have -- in a position where we
- 15 would have otherwise had to run Brandon and Selkirk to
- 16 serve the sale but we chose to buy the energy in the
- 17 market rather than -- than running our own generation
- 18 for economic reasons and that there was an emergency
- 19 event in MISO, MISO would say to Manitoba Hydro: You
- 20 have sold us this capacity. You need to deliver that
- 21 capacity. You can't be relying on us -- on us during
- 22 this emergency. You need to provide that capacity.
- 23 And so there's this situation that could
- 24 occur where, for economic reasons, we've got our
- 25 thermal station shut down, and the emergency occurs,

- 1 and Manitoba Hydro needs to respond to the emergency.
- Well, one (1) of the options you have is
- 3 use curtailable load. And to the extent that you have
- 4 enough curtailable load in the system to -- that
- 5 matches the size of the capacity resource that's not
- 6 running, Brandon and Selkirk coal plants -- Selkirk's
- 7 132 megawatts, and Brandon 5 is a hundred and five
- 8 (105).
- 9 So there's about 350 megawatts of shut
- 10 down coal that has a long start time, but this capacity
- 11 had been sold. To the extent that that capacity was
- 12 needed during emergency, if we had curtailable load of
- 13 that -- of that value available, that's how we would --
- 14 we would meet that obligation to back the capacity
- 15 sales.
- 16 The mitigating factor is that MISO's
- 17 peak demand is in excess of 100,000 megawatts. And
- 18 that occurs in the summer season. And so if, to the
- 19 extent that there is a system emer -- a MISO emergency,
- 20 it will occur in the summer. And that's when the
- 21 maximum-generation event will occur. It won't occur in
- 22 the wintertime, because in the wintertime, MISO load is
- 23 sixty-thousand (60,000). So they have 40,000 megawatts
- 24 of generators already shut down. They don't need to
- 25 call Manit -- on Manitoba Hydro's ca -- capacity in the

- 1 wintertime to serve their emergencies. They have --
- 2 they have 40,000 megawatts of shut down generation.
- 3 So we judge the -- that the likelihood
- 4 of an emergency event occurring in the wintertime -- or
- 5 in the -- in the -- at the time when we would be
- 6 financially settling -- not to be -- to -- it's
- 7 possible theoretically but very, very improbable.
- 8 So we -- we decided that we wouldn't
- 9 pursue additional curtailable load in order to backstop
- 10 the -- the thermal plants. And that's just the nature
- 11 of the -- the diversive -- diversified loads. They --
- 12 they peak at a different time that we peak. And so it
- 13 -- it just didn't make sense to count on -- to -- to
- 14 plan around that unlikely contingency.
- MR. ANTOINE HACAULT: Thank you. The
- 16 last thing that I'd like to canvass with you, I think,
- 17 is best canvassed by retrieving the PUB -- PUB book of
- 18 documents Volume III; Volume III, PUB book of documents
- 19 page 373. That's at Tab 37. So Tab 37, book of
- 20 documents, III, at page 373.
- 21 MR. DAVID CORMIE: Yes, I have that.
- MR. ANTOINE HACAULT: The matter which
- 23 I'd like you to explain -- and there had been some
- 24 question, I think, by Board member Lafond on this. I
- 25 thought this table might be useful -- a useful summary.

2722 1 There was some questions as to the difference between the Option A and the Option R. could you explain what the difference is -- and we'll 3 say in value or benefit to Manitoba Hydro -- when one compares Option A and Option R? 6 7 (BRIEF PAUSE) 9 MR. ANTOINE HACAULT: I may be wrong that this table assists, but I'd like to have you 10 explain that to us, if you could. 11 12 For example, you know, for the Option R, 13 do you have more flexibility for certain events, or 14 reserve events, in contingencies? MR. DAVID CORMIE: Yeah. 15 When you look at this table the -- the two (2) curtailable load 16 options, 'A' and 'R', are very similar. They have the 17 18 same notice time, and -- and they're both to -- to --19 the customer has to provide the curtailment within five (5) minutes. The maximum duration of the curtailment 20 21 is the same, at four and a quarter  $(4 \ 1/4)$  hours. 22 In the -- the difference in the maximum 23 daily number of hours is -- they're essentially the 24 same except in the winter season. We've limited the 25 number of hours to six (6). And I believe that was at

- 1 the request of the customer because of shutting their
- 2 process down for six (6) hours -- more than six (6)
- 3 hours created process issues.
- 4 Under Option R, we have twenty-five (25)
- 5 curtailments a year rather than the fifteen (15), and
- 6 that just reflects the fact that we'll -- we'll
- 7 dispatch Option R much more often because we -- we have
- 8 many more -- our -- our need for dealing with --
- 9 providing our supplemental reserves is -- is much more
- 10 often than we need Option A to -- to reestablish those
- 11 reserves, because we have other options to reestablish.
- 12 The maximum number of hours of curtailment, I think, is
- 13 just a product of the number of curtailments times the
- 14 number of daily hours.
- 15 And the -- the discount is -- the -- the
- 16 capacity portion is the same: 70 percent of the
- 17 reference. But with Option R, we're providing a reserve
- 18 discount which is -- we're paying the customer an --
- 19 for the energy that they're actually not -- that
- 20 they're foregoing.
- 21 Because Manitoba Hydro is providing
- 22 reserves to the market, we're delivering that energy to
- 23 the market. Manitoba Hydro is getting paid for that.
- 24 We're just passing that money back to the customer, and
- 25 that gives them the -- you know, that helps compensate

- 1 them for the -- the cost of -- of the curtailment.
- 2 So we're -- Manitoba Hydro is -- becomes
- 3 indifferent in -- because they're -- we're getting the
- 4 money and we're passing on -- on to the customer as the
- 5 -- as the reserve discounts. And that's additional
- 6 value they get for the -- the increased number of -- of
- 7 curtailments that -- that are -- occur under the Option
- 8 R.
- 9 But fundamentally the -- the difference
- 10 between 'A' and 'R' is the permitted use. 'A' is used
- 11 during emergencies and to re-establish supplemental
- 12 reserves, whereas Option R is used for supplemental
- 13 reserve purposes and -- and emergencies. So, one (1)
- 14 is very actively used and one (1) is held in -- in --
- 15 in reserve and -- and used if necessary to re-establish
- 16 them.
- 17 MR. ANTOINE HACAULT: And just to give
- 18 the Board some idea of the order of what might be paid
- 19 under this reserve discount that you've described, this
- 20 additional amount, could I direct you to page 6 of 9 of
- 21 the report? This is going back to our book of
- 22 documents, page 6 of 9, where --
- 23 MR. DAVID CORMIE: Yeah, Mr. Hacault,
- 24 it's actually shown on page -- on that table on the
- 25 bottom line --

2725 1 MR. ANTOINE HACAULT: Oh, it is too. 2 MR. DAVID CORMIE: The reserve We -- we pay the customer four (4) cents per 3 discount. kilowatt hour for every megawatt hour of curtailment. 5 MR. ANTOINE HACAULT: And the reason I was referring people to page 6 of 9, that tran -translated -- at least in the report that was provided 7 to this Board, as I understand this report, to eighteen thousand seven hundred and sixty dollars (\$18,760) that 10 was what the four (4) cents per kilowatt related -generated for that particular customer. 11 12 Is that correct? 13 MR. DAVID CORMIE: Yes. 14 MR. RAYMOND LAFOND: I'm sorry, are we 15 on page 167 of MIPUG's book of documents? 16 MR. ANTOINE HACAULT: Yes, the very last sentence on that page reads as follows: 17 18 "The discounts shown for Customer 1 do 19 not include the eighteen thousand six 20 hundred -- or seven hundred and sixty 21 dollars (\$18,760) credited in respect of 22 the Option R reserve discount." 23 MR. DAVID CORMIE: Yeah. And -- and, Mr. Hacault, because Manitoba Hydro gets locational 24 market price plus fifty dollars (\$50) we wanted just to

- 1 give the customer the certainty of what his revenue
- 2 would be so we set it, at -- at the time that we
- 3 entered into this negotiation, at -- at the four (4)
- 4 cents. And it's four (4) cents regardless of what the
- 5 LMP price is.

- 7 CONTINUED BY MR. ANTOINE HACAULT
- 8 MR. ANTOINE HACAULT: So -- so right
- 9 now, the only additional compensation to a client who
- 10 allows the 'R' option to interrupt him fairly often, as
- 11 we've seen, is that he would have received in this
- 12 particular year, eighteen thousand dollars (\$18,000).
- 13 Is that correct?
- 14 MR. DAVID CORMIE: Yes, but we -- we
- 15 made the Option R load available because the customer
- 16 said that he wanted more -- wanted to participate more.
- 17 We didn't want to offer him more Option A because we
- 18 had all the Option A, and we needed and we said, If you
- 19 want to participate, here's a way of participating.
- 20 And so, although he's -- he's only
- 21 getting eighteen thousand (\$18,000), he's getting to
- 22 participate 50 megawatts more than he would -- then he
- 23 would of otherwise, because we weren't prepared to
- 24 offer him more Option A.
- MR. ANTOINE HACAULT: Okay. But

PUB - MANITOBA HYDDRO GRA 01-09-2013 2727 fundamentally, Option A and Option R, pay 70 percent, according to that table we looked at in Board book of documents at page 373. And as I understood, am I 3 correct, the Option R is much more valuable to Manitoba Hydro than the Option A? 6 Is that correct? MR. DAVID CORMIE: It's much more 7 valuable to us now, yes. But there are times when -when the capacity market is strong that -- that Option A could be as -- as valuable. 10 11 MR. ANTOINE HACAULT: I'd like to thank each of the members of the panel for having had their 13 discussions with me and having provided some very 14 useful answers. Thank you.

15

16 (BRIEF PAUSE)

- MR. ANTOINE HACAULT: We could probably
- 19 take a break. I would advise the Chair that it's not
- 20 the intention of MIPUG to participate in the DSM
- 21 discussions and examinations, because it doesn't
- 22 particularly affect us and, putting it bluntly, we
- 23 don't ever get awards of cost so we have to be very
- 24 cost conscious.
- MR. BOB PETERS: Mr. Chairman, with the

- 1 questions that have now been posed by all the parties
- 2 of the -- the rates and the diesel portion, I believe,
- 3 of the -- of the panel, subject to any re-examination
- 4 that Ms. Ramage may have, I believe that will conclude
- 5 this panel's evidence.
- I also understand that Ms. Ramage has
- 7 available the DSM panel prepared to slip in probably at
- 8 one o'clock today, and then we would continue with the
- 9 DSM panel as scheduled.
- 10 And I'm understanding Mr. Hacault to be
- 11 telling us that his client has no vested interest at
- 12 this point in time in the -- participating in the DSM
- 13 discussions.
- 14 THE CHAIRPERSON: Okay. I think that
- 15 we're in a position to adjourn the proceedings now and
- 16 -- I'm sorry?
- 17 MS. PATTI RAMAGE: I just -- I had one
- 18 (1) -- Mr. Rainkie wanted to make one (1)
- 19 clarification. And before I turn that over to him, I
- 20 was going to suggest -- Mr. Peters said one o'clock.
- 21 If we want to come back at a quarter to 1:00 just to --
- 22 I'm worried about time, making sure we get through
- 23 everything. I don't know how the parties feel.
- 24 THE CHAIRPERSON: Okay. Mr.
- 25 Rainkie...?

2729 MR. DARREN RAINKIE: There was just one 1 (1) question, excuse me, towards the start of the day that I wanted to, in Mr. Warden's absence, just 3 clarify. We were talking about a return being part of our cost of service and certainly in a publically orn -- owned organization we think of it more as a contribution to reserves, that our net int -- income is 7 a contribution to reserves, as opposed to a return on rate base or equity. And I'm sure all parties kind of understand that, but I just wanted to make sure that 10 11 was clear on the -- on the record. 12 THE CHAIRPERSON: Fair enough. So I --13 I'll recess the proceedings until a quarter to one 14 o'clock this afternoon. And thanks very much to the people from Manitoba Hydro who participated in the --15 in this portion of the hearing. Thank you very much, 16 Mr. -- Mr. Weins. I'm glad to see that you're in fine 17 18 form. 19 MR. ROBIN WEINS: Thank you, Mr. Chairman. As I understand it, you -- you haven't seen 21 the last of me, so I will be back this afternoon. 22 THE CHAIRPERSON: So let's adjourn. 23 24 (PANEL STANDS DOWN) 25

2730 --- Upon recessing at 11:38 a.m. --- Upon resuming at 12:50 p.m. 3 THE CHAIRPERSON: I believe we're ready I can't help but noticing that there are a lot more females this afternoon, and frankly -- and 7 frankly that's a very refreshing change. 8 MR. RAYMOND LAFOND: Mr. Weins is not smiling, so is Mr. Miles. 9 10 THE CHAIRPERSON: So, Ms. Fernandes, 11 please. 12 MS. ODETTE FERNANDES: Thank you, Mr. 13 For the record, I'd just like to start, 14 Manitoba Hydro has provided two (2) responses to 15 undertakings. The first one (1) is a response to 16 Undertaking number 51, which is found at transcript 17 page 2,422. And that was for Manitoba Hydro to provide 18 information regarding the customer uptake on electronic 19 billing. And I believe we are now at Manitoba Hydro 20 Exhibit number 63. 21 22 --- EXHIBIT NO. MH-63: Response to Undertaking 51 23 24 MS. ODETTE FERNANDES: And we also have a response to Undertaking number 53, which was taken at

2731 transcript page number 2,509. And this is an ex -- an excerpt of the Association of Professional Engineers and Geoscientists Code of Ethics. And that was recommended that this be filed as Manitoba Hydro Exhibit number 64. 6 --- EXHIBIT NO. MH-64: Response to Undertaking 53 7 9 MS. ODETTE FERNANDES: Now, I'd like to 10 welcome --11 THE CHAIRPERSON: Just a second, 12 please. 13 MR. RAYMOND LAFOND: On -- on this 14 Exhibit number 63, in terms of electronic billings, 15 that's a bit more than 10 percent who -- of the potential customers who have -- would have opted for 17 electronic billing. 18 Now, are -- do people have the option of 19 receiving both a paper copy and elec -- electronic billing, or just one (1) or the other? 21 22 (BRIEF PAUSE) 23 24 MS. LOIS MORRISON: No, they don't have 25 the option of both.

2732 1 MR. RAYMOND LAFOND: Thank you. 2 MANITOBA HYDRO PANEL 4 - DSM: 3 4 DARREN RAINKIE, Resumed 5 ROBIN WEINS, Resumed 6 LOIS MORRISON, Resumed TERRY MILES, Resumed 9 EXAMINATION-IN-CHIEF BY MS. ODETTE FERNANDES: 10 MS. ODETTE FERNANDES: So I'd like to 11 welcome back to the panel Ms. Morrison. She has been 12 sworn in previously. And again, for the record, she's 13 the division manager of Consumer Marketing and Sales. And here to assist her this afternoon, in the back row 14 15 is Ms. Cheryl Pilek, and she is the Power Smart 16 Planning, Evaluation, and Research department manager. And beside her is Colleen Kuruluk, and she is the 17 18 Marketing Programs department manager. And I'd also 19 like to note that Mr. Weins has elected to stay this afternoon to assist us if necessary. So thank you, Mr. 21 Weins. 22 We do just have a few questions on direct for Ms. Morrison in -- in regards to DSM. 24 Morrison, could you please restate your area of 25 responsibility with respect to this portion of Manitoba

- 1 Hydro's filing?
- MS. LOIS MORRISON: Good afternoon, Mr.
- 3 Chairman, members of the Board, Intervenors, and others
- 4 present, again. As previously stated, I hold the
- 5 position of division manager, Consumer Marketing and
- 6 Sales, of the Customer Care and Marketing Business
- 7 Unit.
- In my testimony, as I previously
- 9 mentioned, I'll be providing evidence with respect to
- 10 Manitoba Hydro's electric load forecast and field
- 11 switching report as filed in response to Directive 17
- 12 of Order 150/08. And I will also be providing evidence
- 13 with respect to Manitoba Hydro's demand-side management
- 14 initiatives.
- MS. ODETTE FERNANDES: Can you please
- 16 provide a brief summary of Manitoba Hydro's DSM efforts
- 17 to date?
- MS. LOIS MORRISON: Manitoba Hydro's
- 19 DSM initiative, marketed under the Power Smart brand,
- 20 is designed to encourage the efficient use of energy
- 21 effic -- in residential, commercial, institutional, and
- 22 industrial customer sectors. Our strategy incur --
- 23 includes education to build awareness and
- 24 understanding, motivating customers with the aid of
- 25 financial tools, and entrenching savings through the

- 1 support of codes and standards.
- 2 Manitoba Hydro offers a coordinated,
- 3 balanced approach to marketing energy efficiency with
- 4 individual Power Smart programs, pursuing energy-
- 5 efficient opportunities, such as upgrades to equipment,
- 6 building envelope and processes within these sectors,
- 7 supported to gen -- a general Power Smart education
- 8 campaign, which in recent years has evolved to become a
- 9 more behavioural -- to a more behavioural approach
- 10 under our Small Changes Adds Up promotions, which
- 11 focuses on low-cost/no-cost measures.
- 12 Manitoba Hydro's long-term and
- 13 aggressive commitment to demand-side management has
- 14 resulted in over 90 percent awareness of the Power
- 15 Smart brand in Manitoba, with over 60 percent of
- 16 residential customers able to recall unaided Manitoba
- 17 Hydro programs available to them to help manage their
- 18 energy bills, and one-third (1/3) of customers
- 19 indicating that they have participated in at least one
- 20 (1) program.
- 21 With more than thirty-five (35)
- 22 incentive-based programs and many other customer-
- 23 service initiatives offered over the last twenty-three
- 24 (23) years, with an associated investment of \$438
- 25 million, Manitoba Hydro has successfully saved a

- 1 hundred -- sorry, 1,966 gigawatt hours and fif -- 583
- 2 megawatts of electricity and 70 million cubic metres of
- 3 natural gas as of March 31st, 2012.
- 4 These energy savings translate into \$62
- 5 million of annual electricity bill savings for those
- 6 customers participating to date, for which they will
- 7 continue to realize this benefit into the future.
- 8 MS. ODETTE FERNANDES: Ms. Morrison,
- 9 can you please describe Manitoba Hydro's future plans
- 10 for DSM?
- 11 MS. LOIS MORRISON: Under Manitoba
- 12 Hydro's 2011 Power Smart plan, we are targeting to
- 13 achieve additional savings of 1,944 gigawatt hours and
- 14 99 million cubic metres of natural gas by 2025/'26,
- 15 bringing our overall savings in 2025/'26 to 3,283
- 16 gigawatt hours of electricity and 153 million cubic
- 17 metres of natural gas.
- In developing the Power Smart plan,
- 19 Manitoba Hydro focuses on pursuing energy-efficient
- 20 opportunities which are economic. These opportunities
- 21 are identified. And subsequently, programs are
- 22 designed to capture energy savings through these
- 23 opportunities. The individual programs and associated
- 24 budgets are combined through a bottom-up approach,
- 25 which formulates Manitoba Hydro's overall Power Smart

- 1 plan. This plan is then included as one of the
- 2 resource options in developing the Corporation's
- 3 integrated resource plan for meeting Manitoba's future
- 4 electricity requirements.
- 5 Manitoba Hydro recognizes that when
- 6 compared on a percent of sales basis, some regions are
- 7 pursuing higher levels of energy savings than what is
- 8 being planned for under the Corporation's 2011 Power
- 9 Smart plan. While Manitoba Hydro agrees that using a
- 10 savings ratio metric in general is valid for comparing
- 11 energy conservation efforts between regions, such
- 12 comparisons must be done with considerable caution
- 13 where regions differ -- where regional differences
- 14 exist, such as the difference in load characteristics
- 15 and marginal cost considerations.
- 16 Conclusions should not be drawn solely
- 17 upon benchmark metric comparisons, as such comparisons
- 18 may lead to misleading or ambiguous conclusions. For
- 19 example, in the comparison presented by Mr. Dunsky, the
- 20 analyses undertaken among regions having considerable
- 21 differentials in marginal cost values, which the Man --
- 22 which Manitoba Hydro's marginal costs being
- 23 considerably lower than a number of regions.
- 24 As such, it is expected that regions
- 25 with higher marginal cost values will have more

- 1 economic opportunities available to them. Manitoba
- 2 Hydro's Power Smart plan is based on the unique
- 3 situation of having marginal cost values which are
- 4 considerably lower than regions such as bus -- British
- 5 Columbia, Nova Scotia, and Vermont; having marginal
- 6 values where the export electricity market accounts for
- 7 a significant component of those marginal cost values,
- 8 as opposed to deferral of new generation; and having
- 9 load characteristics consisting of a large, diverse
- 10 industrial load, significant electricity use for space
- 11 and water heating combined with high degree -- high
- 12 heating degree days.
- 13 Manitoba Hydro recognizes that its DSM
- 14 targets are declining but would assert that this is a
- 15 reflection of Manitoba Hydro's consistent long-term
- 16 engagement in DSM and a diminishing availability of
- 17 economic energy-efficient opportunities remaining in
- 18 the Manitoba market.
- 19 Manitoba Hydro agrees with aggressively
- 20 pursuing energy-efficient opportunities. However, the
- 21 Corporation believes it's important to primarily pursue
- 22 those opportunities which are economic.
- 23 MS. ODETTE FERNANDES: Will there be
- 24 any changes on how Manitoba Hydro will establish its
- 25 DSM targets in the future, including any external

- 1 consultations to be used in the process?
- MS. LOIS MORRISON: Yes. Under the
- 3 recently enacted Energy Savings Act legislation,
- 4 Manitoba Hydro will prepare its energy efficiency plan
- 5 in consultation with the minister responsible for
- 6 Manitoba Hydro. The plan and subsequent reporting on
- 7 Power Smart outcomes is to be tabled with the assembly
- 8 on an annual basis.
- 9 MS. ODETTE FERNANDES: Thank you, Ms.
- 10 Morrison. Thank concludes Manitoba Hydro's direct. So
- 11 we can now turn the DSM panel over for cross-
- 12 examination.
- 13
- 14 CROSS-EXAMINATION BY MR. BOB PETERS:
- MR. BOB PETERS: Thank you, Mr.
- 16 Chairman. And welcome back, Ms. Morrison, Mr. Miles,
- 17 Mr. Weins, Mr. Rainkie.
- When we talk, Ms. Morrison, about
- 19 demand-side management, we're talking about the other
- 20 side of new generation. That is, rather than new
- 21 generating stations, maybe consumers can save
- 22 electricity, thereby reducing the need for new
- 23 generation of electricity.
- Would you agree with that?
- MS. LOIS MORRISON: Yes.

2739 MR. BOB PETERS: And -- and demand-side 1 management got its name, probably, because it's on the demand side of the meter, not on the supply side of the 3 meter? 5 MS. LOIS MORRISON: Yes. MR. BOB PETERS: And from your evidence 6 7 through Ms. Fernandes, is conservation the goal? 8 MS. LOIS MORRISON: Under our current plan, yes. 10 MR. BOB PETERS: I suppose the theory goes that Manitoba Hydro can then sell the energy that 11 12 is saved on the export market? MS. LOIS MORRISON: The -- our -- our 13 14 investment in demand-side management is, yes, funded --15 basically supported by selling the electricity on the 16 export market. That's one (1) of the components. But 17 it's also the deferral of investment and transmission 18 and distribution infrastructure. MR. BOB PETERS: Sorry, you said 19 deferral of transmission and distribution? 21 MS. LOIS MORRISON: Yes. MR. BOB PETERS: Not deferral of 22 23 generation? 24 MS. LOIS MORRISON: No.

MR. BOB PETERS: And, when you say,

- 1 "deferral of transmission and distribution," what
- 2 you're indicating is you wont have to upgrade the
- 3 current distribution and the current transmission that
- 4 you have for customers, so the savings would be on
- 5 deferring the upgrade?
- MS. LOIS MORRISON: Yes.
- 7 MR. BOB PETERS: Would you agree with
- 8 me, Ms. Morrison, that the consumer that participates
- 9 in the demand-side management may have a lower bill,
- 10 but only if the unit rates don't go up to reflect lower
- 11 volumes that are sold by the Utility?
- MS. LOIS MORRISON: Yes, there will be
- 13 a point at which you have to take into consideration if
- 14 the rate impact is so much greater than the savings
- 15 that the person realizes that they my not see a lower
- 16 bill. But yes, at this point in time, the person
- 17 participating would see a lower bill overall.
- MR. BOB PETERS: That's the objective?
- MS. LOIS MORRISON: Yes.
- 20 MR. BOB PETERS: And that's currently
- 21 reflected in the Rate Impact Measure Test that we'll
- 22 talk about in a while?
- MS. LOIS MORRISON: Yes.
- 24 MR. BOB PETERS: Okay. You -- you said
- 25 something in your comments to Ms. Fernandes that I

- 1 hadn't thought of.
- 2 And that is the Power Smart brand is
- 3 what Manitoba Hydro uses?
- 4 MS. LOIS MORRISON: That is how we
- 5 market our energy-conservation initiative.
- 6 MR. BOB PETERS: Does Manitoba Hydro
- 7 own that brand?
- MS. LOIS MORRISON: We are a
- 9 trademarked licence-holder of that brand.
- 10 MR. BOB PETERS: Who holds that? Is
- 11 that BC Hydro?
- 12 MS. LOIS MORRISON: Yes, BC Hydro owns
- 13 the brand name.
- 14 MR. BOB PETERS: And so Manitoba Hydro
- 15 has a licence and permission to use it?
- MS. LOIS MORRISON: Yes.
- 17 MR. BOB PETERS: Are you -- is Manitoba
- 18 Hydro the only other utility that you're aware of,
- 19 other than BC Hydro, that uses the Power Smart
- 20 branding?
- MS. LOIS MORRISON: Subject to check, I
- 22 believe we were the only utility still using it, yes.
- 23 MR. BOB PETERS: That answer suggests
- 24 that others may have and they've gone to their own --
- 25 their own brand?

2742 MS. LOIS MORRISON: 1 Many years ago, BC Hydro did license that brand to a number of utilities. But I don't believe those utilities are still using 3 that. 5 MR. BOB PETERS: Okay. Thank you. The plan that you have file -- that Manitoba Hydro has 7 filed in these proceedings is -- is under Appendix 7.1 in the filing. And the annual review done of the Power Smart Program by Manitoba Hydro is the Appendix 7 --I'm sorry, I may have misspoken. 10 11 The Power Smart plan is Appendix 7.1. 12 Do you agree with that? 13 14 (BRIEF PAUSE) 15 MS. LOIS MORRISON: 16 Yes. 17 MR. BOB PETERS: And the review of the 18 plan is Appendix 7.2? 19 MS. LOIS MORRISON: Yes. 20 MR. BOB PETERS: All right. I have 21 some documents in my book of documents related to that. And I'm not sure if you've been provided with Volume 22 III of Board counsel's book of documents, but when I 24 last saw you I think we were only on Volume I. 25 you've -- you've missed a lot, some might say.

2743 1 When's the next plan coming out, Ms. Morrison? 3 MS. LOIS MORRISON: Our next plan, as I mentioned, will be submitted to -- will be prepared in consultation with the minister responsible for Manitoba Hydro and is required to be tabled on March 31st, 2013. 7 (BRIEF PAUSE) 9 10 MR. BOB PETERS: Until the Energy Savings Act was published, does Mani -- did Manitoba 11 12 Hydro prepare a Power Smart plan on an annual basis? 13 MS. LOIS MORRISON: Yes, that is 14 correct. 15 MR. BOB PETERS: And so the one that the Board has filed in these proceedings is dated October of 2011, correct? 17 18 MS. LOIS MORRISON: That is correct. 19 MR. BOB PETERS: And can I assume that Manitoba Hydro has one that's dated October 2012 21 sitting on the shelf? 22 MS. LOIS MORRISON: No. 23 MR. BOB PETERS: It didn't get done, 24 won't get done? 25 MS. LOIS MORRISON: With the Act coming

2744 into place, we have -- we are now under a new direction. And so we will be filing a plan under that direction with -- in consultation. So there wasn't a plan tabled that went to our executive committee for approval and was incorporated in -- there wasn't one finalized. 7 (BRIEF PAUSE) 9 10 MR. BOB PETERS: I'll come to the Act -11 - I think I have it somewhere in my notes here, Ms. 12 Morrison. But the Act itself doesn't refer to the 13 Power Smart plan, per se, does it? It just talks about 14 Manitoba Hydro's plans should be filed on an annual 15 basis with the minister? 16 MS. LOIS MORRISON: That is correct, 17 but our inference was that -- basically, the Power 18 Smart plan is our energy savings plan. 19 MR. BOB PETERS: So as a result of -of that piece of legislation, Manitoba Hydro will --21 their -- their next plan won't be a -- a two thousand (2000) and -- well, you've got one that's 2011. Your 22 23 next one will be 2013? 24 MS. LOIS MORRISON: That is correct. 25 THE CHAIRPERSON: The Act we're

2745 referring to is which act? 2 MS. LOIS MORRISON: The Energy Savings 3 Act. 4 5 (BRIEF PAUSE) 6 CONTINUED BY MR. BOB PETERS: 8 MR. BOB PETERS: I don't think I put that in my book of documents, Ms. Morrison, but I have 10 some questions later on when we get to it. In addition to that -- the plan for 2013, do you envision the 11 12 format of the -- of the plan and the content of the 13 plan being different than what's been done in other 14 years? 15 MS. LOIS MORRISON: Fundamentally, I believe that the content will be similar. There will 17 be a little more description of -- possibly of what 18 we're doing. But it will be addressing all of the 19 components that we addressed to date. 20 21 (BRIEF PAUSE) 22 23 MR. BOB PETERS: In addition to the 24 Power Smart plan that Manitoba Hydro has and the 2013 plan on which you indicate Hydro is working, has

- 1 Manitoba Hydro ever done a DSM potential study to
- 2 determine what -- what the ultimate number could be in
- 3 this province?
- 4 MS. LOIS MORRISON: In 2003 we
- 5 undertook a DSM market potential study. We are, right
- 6 now, in the process of working with a external
- 7 consultant to prepare a -- an updated DSM market
- 8 potential study.
- 9 MR. BOB PETERS: What -- can you tell
- 10 the Board what the objective of that study is?
- 11 MS. LOIS MORRISON: The objective of
- 12 the study is to identify the market achievable
- 13 potential that remains within the Manitoba marketplace.
- 14 So we would look at what is technically available, what
- 15 is economically available, and what can fundamentally
- 16 be achieved through market intervention, recognizing
- 17 that we are working within the market environment.
- 18 MR. BOB PETERS: Are there formal terms
- 19 of reference or the scope of that proceeding that could
- 20 be filed with this Board?
- 21 MS. LOIS MORRISON: Yes. We could file
- 22 a copy of the res -- request for proposals that was
- 23 submitted out to the marketplace. And in that request
- 24 for proposals, we outlined what we were asking the
- 25 consultant to provide to us.

2747 MR. BOB PETERS: All right. If you'd 1 agree through your counsel to provide that as an undertaking then? 3 4 MS. LOIS MORRISON: Yes, we can do 5 that. 6 7 --- UNDERTAKING NO. 56: Manitoba Hydro to provide the request for proposals 9 that was submitted to the 10 marketplace 11 12 THE CHAIRPERSON: On the -- on -- with 13 respect to that particular study you talked about what is achievable. Will it also address what's preventing 14 15 people from benefiting from the current programs? other words, there are obviously some people who have 17 not bought into existing programs. 18 And -- and I guess -- will the study 19 address why they're not participating or what -- what causes them not to participate? 21 MS. LOIS MORRISON: The study won't be 22 specific to each market. In, say, for example, in, 23 say, home insulation uptake, customers don't want to 24 have, say, clean out their basements and move all this stuff away from their outside walls. There's a certain 25

- 1 percentage that don't want to do that.
- 2 It doesn't say specifically for -- by
- 3 each sector what is stopping people from participating.
- 4 But what it's doing is we are recognizing that there
- 5 are barriers to participation, and the idea being that
- 6 you would look at the maximum achievable market
- 7 potential.
- 8 And under that you are assuming all
- 9 things created equal. There are enough installers
- 10 available in the marketplace. There are no financial
- 11 barriers to participation such that the -- say, the
- 12 product costs are equal. The features of the products
- 13 are equal. There are those people in the market that
- 14 just don't want to do it.
- And so what you're doing is you're
- 16 setting a maximum bar on, really, what can we do with
- 17 maximum market intervention in the marketplace where
- 18 all the stars are aligned, the provincial government is
- 19 working with the federal government, working with the
- 20 Utility. There's enough capacity withing the
- 21 marketplace to support that intervention. What's the
- 22 maximum you -- you can achieve?
- 23 And what you're doing is you're
- 24 recognizing that -- that there are people that -- or --
- 25 or customers that just will not participate. That

2749 would -- that's setting the upper bar. And so -- but we don't -- to -- to answer your question, we don't specifically say, For each of these measures, these are 3 the reasons why people are not participating. 5 CONTINUED BY MR. BOB PETERS: 7 MR. BOB PETERS: Is that something that can be gathered, Ms. Morrison, through the market potential study, what are -- what are the specific 10 barriers to the specific programs? 11 MS. LOIS MORRISON: It would be a very 12 detailed undertaking to do so. What -- what the DSM 13 market potential study looks at -- it doesn't look at 14 it in a program level. What -- what the DSM market 15 potential study looks at, it doesn't look at it at a 16 program level. What it looks at it is at a technology 17 level. What are the barriers to that technology? 18 We could provide -- through -- when we -19 - once the report is in place, we can explain some of the assumptions behind the market acceptance rates and 21 why those market acceptance rates were set at what they 22 were. But there's -- to -- to go through for each 23 technology would be quite -- that report won't detail each technology's barriers from that perspective. 24

In -- in further

MR. BOB PETERS:

- 1 response to the Chairman's question, is that -- is the
- 2 -- the hurdle or the barrier or the reluctance for
- 3 market acceptance, whatever you want to call it, does
- 4 Manitoba Hydro's staff report back on what -- what
- 5 those various hurdles are?
- 6 MS. LOIS MORRISON: Yes, Manitoba
- 7 Hydro's staff, the people that work in those individual
- 8 markets and with those individual technologies, will
- 9 identify what those possible barriers are to
- 10 participation. We also, working with the consultant
- 11 specifically in this report, asked the consultant to
- 12 provide us with insight as to what they've seen and
- 13 observed in other jurisdictions, in terms of market
- 14 acceptance.
- MR. BOB PETERS: Ms. Morrison, on page
- 16 312 of the book of documents, at Tab 30, PUB Exhibit
- 17 14, there's a -- a list of DSM expenditures that the
- 18 Corporation has provided.
- 19 Have you got that in front of you?
- 20 MS. LOIS MORRISON: Yes, I do. Thank
- 21 you.
- MR. BOB PETERS: And if we just focus
- 23 on the -- the top part of the chart, we're seeing the
- 24 residential customers.
- 25 And you've given two (2) actual years

- 1 and two (2) forecast years, correct?
- MS. LOIS MORRISON: Correct.
- 3 MR. BOB PETERS: And while we can see
- 4 that -- how does Manitoba Hydro decide what is a
- 5 commercial customer and what's an industrial customer?
- 6 MS. LOIS MORRISON: It's generally
- 7 based upon the nature of their operations. So an
- 8 industrial customer would be someone who, based upon
- 9 the standard industrial classification code, would be
- 10 undertaking, say, manufacturing, resource extraction,
- 11 that type of code; whereas a commercial customer is
- 12 based upon the function of the building being, more so,
- 13 office, school, institution, apartments. So that's how
- 14 they're classified.
- MR. BOB PETERS: In the -- let's stay
- 16 with the residential customers, for example. And look
- 17 -- let's pick the first test year, 2012/'13.
- 18 Manitoba Hydro is -- is including in
- 19 the rate request before this Board five million, one
- 20 hundred and fifty-eight thousand dollars (\$5,158,000)
- 21 on account of DSM initiatives for the residential
- 22 customer class?
- 23 MS. LOIS MORRISON: That is correct.
- 24 MR. BOB PETERS: And that's broken down
- 25 between internal and external. Can you explain to the

- 1 Board what the internal costs are?
- MS. LOIS MORRISON: Internal costs
- 3 would be all costs incurred within the Manito -- within
- 4 Manitoba Hydro and expended, such as staff, operating
- 5 costs within the Corporation, overheads attached to
- 6 those staff. It's primarily staff resources.
- 7 MR. BOB PETERS: Are you able to
- 8 quantify the number of EFTs that Manitoba Hydro has
- 9 devoted to DSM expenditures?
- 10 MS. LOIS MORRISON: Off the top of my
- 11 head, I can't. But, yes, we could identify that for
- 12 you. One (1) thing to take into consideration is that
- 13 the way we are structured is we have -- we have a
- 14 couple of departments where we have staff dedicated
- 15 specifically to designing programs and devel -- and
- 16 exploring technologies and such. But it's -- it's also
- 17 incorporated within our day-to-day operations for our
- 18 customer service staff.
- 19 So we have a frontline sales force in
- 20 our energy service and sales group and in our major
- 21 accounts group, who deal with customers on a day-to-day
- 22 basis. And a portion of their work is to promote or to
- 23 encourage energy conservation through our programming
- 24 and in general.
- 25 And so we could identify those people

2753 that are -- the -- the EFTs that are working directly on energy conservation and the amount of time that our -- our other sales force works on supporting the 3 initiative. 5 MR. BOB PETERS: Well, I'm reluctant to ask for any undertaking on that, Ms. Morrison. But, I 7 mean, Mr. -- Mr. Rainkie has given us average EFT information in his previous testimony. And I suppose we could just do the math and divide that information 10 into the internal costs and come up with an EFT equivalent number of full-time staff that would be 11 12 dedicated to -- to the -- to the various programs? 13 14 (BRIEF PAUSE) 15 16 MS. LOIS MORRISON: I think it would 17 probably be -- we would be quite happy to run an EFT 18 equivalent report, which would be more specific to the 19 actual time that our staff charged to energyconservation initiatives. 20 21 MR. BOB PETERS: Well, if you're 22 offering, I'll take you up on that. Can you do if for 23 each of the four (4) years that are depicted on page 24 312?

MS. LOIS MORRISON: Yes, we can.

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2754
1
                   MR. BOB PETERS: All right. Thank you
   for that, ma'am.
3
   --- UNDERTAKING NO. 57: Manitoba Hydro to provide
5
                                an EFT equivalent report
6
                                which would be more
7
                                specific to the actual time
                                that staff charged to
9
                                energy-conservation
10
                                initiatives
11
12
   CONTINUED BY MR. BOB PETERS:
13
                   MR. BOB PETERS: And just so the Board
14
   has a handle on it, in the -- in the first test year,
15
   the 2012/'13 forecast period, $34 million,
16
   approximately, is the number that's going to be
17
   included in the utilities revenue requirement for that
18
   test year, on account of DSM?
19
                   MR. DARREN RAINKIE: Maybe I can help
   on that one, Mr -- Mr. Peters. These costs, of course,
21
   flow into our famous category of rate-regulated assets.
   And so these costs are deferred, and it's the
22
23
   amortization that would flow into a particular year's
24
   revenue requirement.
25
                   MR. BOB PETERS: Aren't we almost at
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- 1 equilibrium, Mr. Rainkie, on that? Am I mis-
- 2 remembering?
- MR. DARREN RAINKIE: Yes, we are pretty
- 4 close. I'm not sure if we're exactly, but we're fairly
- 5 close to equilibrium. What I'm trying to remember is
- 6 what the differential is in -- under IFF12, because I
- 7 think this is our forecast from IFF11-2. But just -- I
- 8 just wanted to clarify things, Mr. Peters.
- 9 MR. BOB PETERS: Yeah.
- 10 MR. DARREN RAINKIE: I think we're
- 11 pretty close at the -- at the equilibrium.
- MR. BOB PETERS: That point that you're
- 13 making with the Board is that the Board has treated DSM
- 14 expenditures as rate-regulated assets heretofore?
- MR. DARREN RAINKIE: That Company has
- 16 treated them as -- as that, yes. And the Board --
- MR. BOB PETERS: Well, and they've been
- 18 set up according to the -- the Board has accepted them
- 19 as rate-regulated assets.
- 20 MR. DARREN RAINKIE: That's right.
- 21 That's right.
- MR. BOB PETERS: And Manitoba Hydro's
- 23 plan for the two (2) test years is to continue to have
- 24 them as rate-regulated assets?
- MR. DARREN RAINKIE: Yes. Now that

- 1 IFRS has been deferred, they will continue to be rate
- 2 regulated.
- MR. BOB PETERS: So these expenditures
- 4 of \$34 million in each of the two (2) respective test
- 5 years will be added into the -- into the rate-regulated
- 6 account under Power Smart Program and it will -- I
- 7 guess one-tenth (1/10) of that will be brought into the
- 8 income statement in each of the test years?
- 9 MR. DARREN RAINKIE: That's right. The
- 10 amortization period is ten (10) years for these
- 11 accounts.
- 12 MR. BOB PETERS: And the amortization
- 13 period, Mr. Rainkie, while we're on that, it used to be
- 14 longer then ten (10) years, did it not?
- MR. DARREN RAINKIE: I think at one (1)
- 16 point it was fifteen (15) years, I'm remembering, and
- 17 then it went down to ten (10), Mr. Peters.
- 18 MR. BOB PETERS: And just as a reminder
- 19 to the Board, which I'm sure they don't need, is that
- 20 if IFRS -- if and when it becomes operable related to
- 21 rate-regulated accounts, Manitoba Hydro's proposal may
- 22 be to include this amount in the -- as an expense every
- 23 year, as opposed to putting it into an account and
- 24 amortizing it.
- MR. DARREN RAINKIE: That's correct.

- 1 I'm sure the Board is tired of hearing me saying that.
- 2 But as we talked about, I think it was, yesterday or
- 3 the day before, the treatment of that is still out.
- 4 But, if -- if the interim -- if the International
- 5 Accounting Standards Board approves an interim
- 6 standard, that would be our continual treatment until -
- 7 to defer and amortize until either a final -- until a
- 8 final standard is -- is issued.
- 9 MR. RAYMOND LAFOND: The unamortized
- 10 amount, would it be written out to retained earnings in
- 11 the same year, or it would continue for the balance of
- 12 the period?
- 13 MR. DARREN RAINKIE: Well, if -- if we
- 14 move to IFRS without a rate-regulated standard, the
- 15 balance would be written off in the comparable year.
- 16 So let -- if the scenario is that we move to IFRS in
- 17 the 2014/'15 year and for some reason we don't have
- 18 interim standard that allows rate-regulated accounting,
- 19 we would write off the balance as at April 1st, 2013,
- 20 and then adjust it to comparable years for a new
- 21 treatment of expensing as the -- as the expenditures
- 22 are incurred.
- 23 MR. RAYMOND LAFOND: But it would be
- 24 written off to retained earnings and not to income?
- MR. DARREN RAINKIE: Yes, it would be

- 1 written off to retained earnings on transition to IFRS.
- 2 But it -- the trick there is it would be -- the balance
- 3 would be written off in the comparable year, April 1st,
- 4 2013, and then -- then we present the new treatment for
- 5 both 2013/'14 and 2014/'15.

- 7 CONTINUED BY MR. BOB PETERS:
- 8 MR. BOB PETERS: Mr. Rainkie, all of
- 9 what you said would be what Manitoba Hydro may propose
- 10 to do, but that decision has not yet finally been made
- 11 because IFRS is not looming over us quite as much as it
- 12 was when this GRA was prepared?
- MR. DARREN RAINKIE: That's correct. I
- 14 was just responding to the hypothetical that Mr. Lafond
- 15 provided to me.
- 16 MR. BOB PETERS: And -- and further
- 17 with your hypothetical, while Manitoba Hydro may have a
- 18 preferred way to deal with this expense, the ultimate
- 19 word on rate regulation and how it's treated will --
- 20 will rest with this Board?
- 21 MR. DARREN RAINKIE: The ultimate way
- 22 that I -- that the costs make themselves into rates
- 23 will -- will rest with the Board. But I think, as we
- 24 discussed with Mr. Warden, the selection of our
- 25 accounting policies will rest with Manitoba Hydro.

- 1 MR. BOB PETERS: But for rate-setting
- 2 purposes, this Board can determine whether or not to
- 3 continue with the treatment of DSM as a rate-regulated
- 4 asset.
- 5 MR. DARREN RAINKIE: I might be accused
- 6 of becoming a lawyer here again as to -- after doing
- 7 this for twenty-three (23) years, I'm never quite sure
- 8 when I stop being an accountant and when my testimony
- 9 starts being legal testimony. But I -- I would
- 10 acknowledge that the Board has the ability to decide
- 11 how it sets rates, and -- and maybe we'll leave it at
- 12 that.
- MR. BOB PETERS: All right. And you'll
- 14 also acknowledge that before Manitoba Hydro's final
- 15 decision as to how to deal with the DSM rate-regulated
- 16 asset at this point in time, there will be another
- 17 application by Manitoba Hydro before the Public
- 18 Utilities Board?
- 19 MR. DARREN RAINKIE: Yes. If you look
- 20 at our forecast, that's the most likely scenario, Mr.
- 21 Peters.
- MR. BOB PETERS: Thank you. Ms.
- 23 Morrison, sorry for that tangential discussion with Mr.
- 24 Rainkie. I just wanted you to -- you explained the
- 25 internal costs.

- 1 The external costs that you have
- 2 depicted in -- on page 312, can you explain to the
- 3 Board what the general composition of those costs are?
- 4 MS. LOIS MORRISON: The external costs
- would be any dollars that flow out of the Corporation
- 6 to support the programs. They would include items such
- 7 as incentive payments to customers, advertising costs,
- 8 contract costs to third-party delivery agencies, and
- 9 such.
- 10 MR. BOB PETERS: Most of it is
- 11 incentives?
- MS. LOIS MORRISON: Yes.
- MR. BOB PETERS: Maybe we'll just take
- 14 a second on a couple of the items. Home insulation
- 15 seems to still be a program that Manitoba Hydro
- 16 continues to promote and offer as a DSM program?
- MS. LOIS MORRISON: Yes.
- 18 MR. BOB PETERS: Am I -- am I correct
- 19 that the fridge recycling program is relatively new to
- 20 the scene?
- 21 MS. LOIS MORRISON: That is correct.
- MR. BOB PETERS: And is Manitoba Hydro
- 23 experiencing good value on that at this point in time?
- 24 MS. LOIS MORRISON: It is close to
- 25 meeting its targets, yes.

2761 And just to -- to help 1 MR. BOB PETERS: me out, this is the one where you offer to pick up and remove from people's homes older-generation fridges? 3 MS. LOIS MORRISON: Yes. Under the 4 program, we will come to your house free of charge and remove refri -- qualifying refrigerators and freezers. They have to meet a certain age requirement, and we 7 will provide you with an incentive of forty dollars 9 (\$40).10 MR. RAYMOND LAFOND: I'm sorry, an 11 incen -- an incentive of forty dollars (\$40) over and 12 above taking the freezer out? 13 MS. LOIS MORRISON: Yes. 14 15 CONTINUED BY MR. BOB PETERS: MR. BOB PETERS: Is that incentive tied 16 17 to buying a new energy-efficient fridge or freezer? 18 MS. LOIS MORRISON: In fact, we No. 19 encourage you not to replace that second fridge. all tied to getting the second fridge, the fridge that 21 people have in their basements or in their -- in their 22 -- maybe in their back -- hopefully not in their 23 backyard, but they -- they have in their basements. 24 It's a second fridge where maybe you 25 have a few drinks or something like that. It's being

- 1 under-utilized essentially, and so we are attempting to
- 2 remove it from the system entirely.
- 3 MR. BOB PETERS: All I can see are the
- 4 fridges that had the round corners and the big handles
- 5 on the front. And I think those are the ones you're
- 6 after, so I -- I no longer own one (1).
- 7 The -- the commercial -- the commercial
- 8 program that seems to be garnering the most attention
- 9 from Manitoba Hydro is commercial lighting?
- 10 MS. LOIS MORRISON: Yes, that is -- we
- 11 regularly refer to that as our flagship program.
- MR. BOB PETERS: Flagship in the sense
- 13 that it's got the best bang for its buck?
- MS. LOIS MORRISON: Yes.
- 15 MR. BOB PETERS: And I note in the
- 16 residential lighting program, that's no longer the
- 17 flagship. That one's flagged. You're no longer
- 18 proposing any expenditures on that in the two (2) test
- 19 years?
- 20 MS. LOIS MORRISON: We previously had a
- 21 program promoting lighting in the residential market.
- 22 Now, obviously, in the commercial market, lighting
- 23 constitutes a much larger portion of the load. And
- 24 therefore, that's why there's quite a bit of
- 25 opportunities attached there.

- 1 In the residential sector, we did run a
- 2 -- a lighting program for a number of years, and we
- 3 were very successful in achieving about 65 percent
- 4 market penetration. And -- so the program met its
- 5 targets, and we completed it.
- 6 MR. BOB PETERS: In the residential
- 7 program, am I -- am I understanding correct, it was a -
- 8 an attempt to take incandescent bulbs out and put in
- 9 the compact fluorescents?
- MS. LOIS MORRISON: Yes.
- 11 MR. BOB PETERS: Whereas in the
- 12 industrial -- or, sorry, whereas in the commercial
- 13 lighting program, it's to replace a fluorescent bulb
- 14 with a -- a more energy-efficient fluorescent bulb?
- 15 MS. LOIS MORRISON: In the commercial
- 16 market, it's actually much more diverse. It includes a
- 17 number of components, not just upgrading the actual
- 18 efficiency of the technology or the equipment. It --
- 19 there's a wide variety of different types of equipment
- 20 used in the commercial sector.
- 21 As I mentioned, there's quite a bit more
- 22 opportunity attached to the commercial sector. You've
- 23 got warehouse lighting, which may be high bay lighting.
- 24 So it's not necessarily incandescent or fluorescent or
- 25 -- there's mercury vapour, there's metal-halide.

2764 There's a whole slew of different types of technologies. 3 We're also looking at -- looking for improvements in ener -- in lighting design; so not just improving the actual energy use of the individual fixtures, but improving the design itself so it better suits the needs of the -- of the area. So there's --7 there's greater opportunities in lighting energy savings in the commercial market. 10 11 (BRIEF PAUSE) 12 13 MR. BOB PETERS: Is the budget tracking 14 to expend the \$34.5 million in the current year? 15 16 (BRIEF PAUSE) 17 18 MS. LOIS MORRISON: We don't have that 19 immediately available, but we will tak -- we would take that as an undertaking. 21 MR. BOB PETERS: All right. Thank you. 22 If you could just restate exactly what you agreed to 23 provide on the record, the transcription will -- will 24 note it. 25 MS. LOIS MORRISON: We will undertake

2765 to give a status of our expenditures and our projection as to whether or not we will spend the \$34 million, as reported in the 2012/'13 test year. 3 4 5 --- UNDERTAKING NO. 58: Manitoba Hydro to give a 6 status of its expenditures 7 and its projection, as to whether or not it will 9 spend the \$34 million, as 10 reported in the 2012/'13 11 test year 12 13 CONTINUED BY MR. BOB PETERS: 14 MR. BOB PETERS: Thank you, Ms. 15 Morrison. When we talked a few minutes ago about the market potential study, do I understand correctly that 17 the successful candidate has already been selected 18 pursuant to an RFP process? 19 MS. LOIS MORRISON: That is correct. 20 MR. BOB PETERS: And is there a date by 21 which this report is due to Manitoba Hydro? 22 MS. LOIS MORRISON: We've actually gone 23 past the date. We're a little late in getting it done, 24 yes. 25 MR. BOB PETERS: Okay. When's the new

- 1 date?
- MS. LOIS MORRISON: We are still
- 3 working on it with the consultant. We are hoping to
- 4 have preliminary numbers prepared within the next few
- 5 weeks, at which point then we will still have to
- 6 finalize the report and take it to our executive.
- 7 MR. BOB PETERS: And once it -- once
- 8 this report gets finalized and reviewed by your
- 9 executive, does it go to Manitoba Hydro's board of
- 10 directors, do you know?
- 11 MS. LOIS MORRISON: We hadn't intend
- 12 (sic) to file it with our board of directors.
- 13 MR. BOB PETERS: Well, I'm just asking
- 14 is that something that can be filed with this Board as
- 15 soon as your management has -- has signed off on it?

16

17 (BRIEF PAUSE)

- 19 MS. LOIS MORRISON: We have filed that
- 20 report previously when we did -- undertook the 2003
- 21 study, so we see no reason why we can't file it again.
- 22 MR. BOB PETERS: Okay. If you could --
- 23 could agree to do that. That's not an undertaking as
- 24 part of these proceedings that I'm asking for, but if
- 25 there's some other concern or issue that arises, if you

- 1 could ask your counsel to -- to keep in communication
- 2 with the Board on that, then that would be
- 3 satisfactory.
- 4 MS. LOIS MORRISON: I was just reminded
- 5 my -- by my counsel that I should put a caveat on to
- 6 that: subject to any confidentiality issues that may be
- 7 in -- included within the document.
- 8 MR. BOB PETERS: Well, we can deal with
- 9 those, too. But we'll talk about that another time.
- 10 So thank you for that, Ms. Morrison. And -- and your
- 11 caveat is certainly acceptable.

12

13 (BRIEF PAUSE)

- 15 MR. BOB PETERS: Did the terms of
- 16 reference for that report get prepared by Manitoba
- 17 Hydro, or did you engage a consultant to assist you in
- 18 the terms of reference for the market potential study?
- 19 MS. LOIS MORRISON: We -- Manitoba
- 20 Hydro prepared the terms of reference for the -- our --
- 21 for the request for proposal.
- MR. BOB PETERS: And do you recall if
- 23 Manitoba Hydro indicated that the report would
- 24 ultimately be disclosed publicly, in the sense that it
- 25 wasn't going to be a confidential report?

- 1 MS. LOIS MORRISON: We indicated that
- 2 it would be part of our DSM planning process, and
- 3 therefore it would be a public document.
- 4 MR. BOB PETERS: Okay. So there was --
- 5 we'll -- we'll leave it at that. But in terms of
- 6 confidentiality, any confidentiality issues would have
- 7 to be raised then by the consultant, because Manitoba
- 8 Hydro intended it to be a public document?
- 9 MS. LOIS MORRISON: Only if certain
- 10 inputs might have to be redacted.
- MR. BOB PETERS: Okay. Let's move on
- 12 and look at the Power Smart utility budget that you
- 13 spoke about a little bit to Ms. Fernandes in terms of
- 14 going forward. If we turn to page 314 in the book of
- 15 documents -- page 314, Ms. Morrison, you'll recognize
- 16 as a -- an extract from Appendix 7.1, which has been
- 17 filed in these proceedings.
- 18 Have you located that?
- MS. LOIS MORRISON: Yes.
- 20 MR. BOB PETERS: Now, my reading of
- 21 this page, Ms. Morrison, on page 314, the -- the chart
- 22 at the top of the page, the cumulative cost of DSM to
- 23 date, that is up until the end of fiscal '12, has been
- 24 \$376.9 million?
- MS. LOIS MORRISON: That is correct.

2769 I had understood, or I 1 MR. BOB PETERS: had made a note in your -- in your direct evidence to Ms. Fernandes that you used \$438 million as spent to 3 date. 5 MS. LOIS MORRISON: That as spent of March 31st, 2012. The number you're referring to is spent as of March 31st, 2011. And also, mine reflects 7 natural gas and electric investment. It's the overall Power Smart initiative, not just the electric. 10 MR. BOB PETERS: All right. I'll accept the second qualification. I'm not sure I agreed 11 12 with the first, but I think you've explained it to me, 13 Ms. Morrison. The -- the expenditures that the Board is looking at then on page 314, they're looking at \$377 14 15 million spent on the electric side for -- for the Power 16 Smart Program? 17 18 (BRIEF PAUSE) 19 20 MS. LOIS MORRISON: Sorry, yes, I stand 21 corrected. The thirty-seven (37) -- sorry, \$377 22 million includes the projection of the \$32 million to 23 be spent in the '11/'12 fiscal year. 24 MR. BOB PETERS: All right. Thank you 25 for that. Just help -- help the Board out

- 1 understanding that. If -- if I'm homeowner and I heat
- 2 with natural gas but I put insulation in my basement,
- 3 am I on the gas DSM program or am I on the electric DSM
- 4 program?
- 5 MS. LOIS MORRISON: If you participate
- 6 in our home insulation program, you are on our gas DSM
- 7 program.
- 8 MR. BOB PETERS: Even if my home is
- 9 then heated by electricity?
- 10 MS. LOIS MORRISON: If your home is
- 11 heated by electricity then you are on our electricity
- 12 DSM program.
- MR. BOB PETERS: Okay. I was just
- 14 trying to see how the -- the same program applies
- 15 regardless of the source of space heat in the home?
- 16 MS. LOIS MORRISON: That -- that is
- 17 correct. What we do is we -- we move the dollars
- 18 within the programs over to the appropriate fuel.
- 19 MR. BOB PETERS: Thank you. The Board
- 20 will see on page 314 that Manitoba Hydro is forecasting
- 21 on the electric side to increase the cumulative
- 22 spending from \$377 million up to \$732 million, correct?
- 23 MS. LOIS MORRISON: That is correct.
- 24 MR. BOB PETERS: And when the Board
- 25 looks at the year over year over year expenditures, it

- 1 will note that the expenditures will hit a peak and
- 2 then they will decline over the years out to 2025/'26.
- 3 MS. LOIS MORRISON: That is correct.
- 4 MR. BOB PETERS: Why is there a
- downward trend developing?
- 6 MS. LOIS MORRISON: As we reach targets
- 7 or we're projecting to reach targets within the
- 8 programs, we are declining our investment in those
- 9 initiatives. So we would be for -- for example, with
- 10 the refrigerator/freezer recycling program, after we
- 11 reach a certain penetration within the market, there
- 12 are no -- to -- to try and continue to get those
- 13 freezers out of someone's basement or someone's -- to
- 14 get those fridges out of someone's basement would
- 15 require quite a bit more market intervention and to a
- 16 point where really there's diminishing returns, and so
- 17 we are -- we discontinued the program at that point and
- 18 therefore there's no continuing investment from the
- 19 Utility.
- 20 MR. BOB PETERS: Is this table subject
- 21 to being revised once the market potential study is
- 22 complete?
- 23 MS. LOIS MORRISON: Yes. The purpose
- 24 of the pro -- of the DSM market potential study is to
- 25 identify if there's any opportunities that we may not

- 1 be pursuing.
- MR. BOB PETERS: Or to indicate how
- 3 other jurisdictions maybe pursue them in a way that is
- 4 cost effective?
- 5 MS. LOIS MORRISON: No, it does not
- 6 look at what other jurisdictions are doing. It merely
- 7 looks at what economic opportunities remain in the
- 8 Manitoba marketplace and what can be achieved
- 9 reasonably in a -- with a market intervention strategy.
- 10 THE CHAIRPERSON: Economic
- 11 opportunities for existing programs?

12

- MS. LOIS MORRISON: Economic
- 14 opportunities that are not necessarily just existing
- 15 programs. It may include technologies that are not
- 16 currently being offered as a program, but may in the
- 17 future or in the next five (5) years we may see as
- 18 being economic.

- 20 CONTINUED BY MR. BOB PETERS
- 21 MR. BOB PETERS: I'm having a bit of
- 22 trouble connecting those dots, Ms. Morrison. What
- 23 would be an example of a technology that -- that may
- 24 give rise to DSM that heretofore has not?
- MS. LOIS MORRISON: A good example

- 1 might be LED lighting for general residential lighting
- 2 purposes. At this point in time, the technology has a
- 3 very high incremental cost for the unit and there are
- 4 some issues with the lighting quality.
- 5 However, as we look forward into the
- 6 future and two (2) things happen, we -- we anticipate
- 7 pricing to come down, and we also see that our marginal
- 8 value or the levelized costs of energy saved increases
- 9 over time. So, there might be a point in the next few
- 10 years where that technology might be economically
- 11 attractive to pursue in Manitoba.
- 12 MR. BOB PETERS: That's an example for
- 13 -- is that residential lighting?
- MS. LOIS MORRISON: Yes.
- MR. BOB PETERS: Any other similar
- 16 examples that you can offer at this time related to
- 17 commercial DSM?
- 18
- 19 (BRIEF PAUSE)
- 20
- 21 MS. LOIS MORRISON: One (1) of the
- 22 purposes of the study is to help us identify those
- 23 technologies that might not -- that we might not yet be
- 24 fully aware of. And what they will do is they will
- 25 bring technologies to our attention that maybe we

- 1 haven't fully explored. LED lighting is also one (1)
- 2 that we're looking at in the commercial sector. It's -
- 3 again, it still also has some concerns about its full
- 4 application, and it is still very costly.
- 5 THE CHAIRPERSON: Could I understand,
- 6 since we've started the discussion, I guess, what's
- 7 been intriguing to me is I would have expected that we
- 8 would be hearing from the DSM director as opposed to
- 9 the market -- manager of Marketing. Now, just -- or
- 10 structurally within Hydro, is there a DSM unit that --
- 11 that is responsible for the delivery of the programs?
- I mean, I appreciate that you are a key
- 13 player on the marketing side, but to -- to -- can you
- 14 explain to me how the DSM initiatives are managed?
- 15 MS. LOIS MORRISON: The Marketing
- 16 Programs Department is responsible for the residential
- 17 and commercial Power Smart Programs, the design and the
- 18 implementation of those programs. That department
- 19 reports to me. In addition to that, we have the -- we
- 20 have our energy service and sales group, which includes
- 21 a Power Smart sector sales -- sales force. That
- 22 department reports to me.
- The planning function reports directly
- 24 to our vice president. And our -- we have a department
- 25 called Customer Engineering Services that provides

- 1 technical engineering support and -- for all of our DSM
- 2 initiatives and also for -- also delivers all our
- 3 industrial-based programs. And that department reports
- 4 to the division manager responsible for industrial
- 5 commercial solutions.
- 6 So there are pieces of -- fundamentally,
- 7 I have a large portion of the DSM initiatives under my
- 8 area of responsibility, the exception being the
- 9 industrial sector.
- 10 THE CHAIRPERSON: Since we're on --
- 11 we're on the topic, the genesis of a new program that's
- 12 launched by Manitoba Hydro originates how? You know,
- 13 how does a new program originate within Hydro?
- 14 MS. LOIS MORRISON: Generally, the
- 15 staff and the marketing programs group will work
- 16 closely with the customer engineering services staff,
- 17 and they'll identify technologies. And we will, on a
- 18 relatively regular basis, look at the economics of that
- 19 technology.
- 20 So we'll look at it from a resource
- 21 perspective. Is that technology economic under -- and
- 22 I believe Mr. Peters is going to go into this in more
- 23 detail later. But is that technology economic from a
- 24 resource perspective? Like if we look at it from the
- 25 cost of installing that measure and getting that

- 1 measure to market, is it economic?
- 2 At that point, if we determine that it's
- 3 economic, then staff in the marketing program -- if its
- 4 geared to the residential and commercial sector, staff
- 5 in the marketing programs group will take a look at how
- 6 is the best way to get that product onto -- into
- 7 consumers' hands. How does that product get to market?
- 8 And so they'll look at it from the
- 9 perspective of how -- how do customers buy that
- 10 product? What are some of the barriers? What do we
- 11 need to do to -- to eliminate barriers to that, to --
- 12 to accessing that technology in the marketplace?
- 13 Then what they do is once they look at
- 14 what all the opportunities are, they'll also look at
- 15 what other utilities are doing. How are they -- so
- 16 they do an industry review. Then once they've
- 17 identified a strong business case to support that
- 18 initiative, they will take that forward to myself for
- 19 approval. Once it's gone through me, it'll go to
- 20 executive. Executive will approve it. And we'll
- 21 implement it to the marketplace. I don't know if
- 22 that's answering your question.
- 23 THE CHAIRPERSON: It does. I -- I
- 24 guess what I -- you know, looking at the -- the decline
- 25 in investments or costs in -- decline in budget,

- 1 basically, suggests to me that -- that there isn't a
- 2 strategic goal that is -- that is -- encapsulates where
- 3 Manitoba Hydro wants to go with respect to DSM.
- 4 It suggests to me that -- given that the
- 5 -- you know, the decline in investment here, that --
- 6 there isn't a strategic plan saying, you know, we're
- 7 going to reduce our expenditures. Or, it could -- I
- 8 guess -- I guess what I'm wondering is, what does the
- 9 strategic plan say with respect to DSM?
- 10 Where are you going that would cause the
- 11 evidence to suggest that it's not a priority?
- MS. LOIS MORRISON: We -- there isn't a
- 13 direction that says we shouldn't -- that it shouldn't
- 14 be a priority. Really, what -- what the plan is
- 15 reflecting that, as -- as of today, we've had a very
- 16 significant involvement in the marketplace today. And
- 17 really what it's reflecting, as I mentioned in my
- 18 testimony, is -- is a -- is the fa -- is -- is the
- 19 diminishing availability of economic opportunities.
- 20 And so we've been in the marketplace.
- 21 And so, for example, with the home insulation program,
- 22 we've -- we've seen ten thousand (10,000) homes insul -
- 23 or about ten thousand (10,000) homes insulated from
- 24 the program. The -- at some point, there's only so
- 25 many houses left to insulate that -- to what is deemed

- 1 to be our Power Smart level right now.
- 2 And so, for example, houses that have a
- 3 -- under the current program, houses that have less
- 4 than R30 in the attic qualify for the home insulation
- 5 program. And we want them to insulate up to R50. So
- 6 at some point there's only so many houses left that
- 7 will have that opportunity, that we can intervene with,
- 8 as opposed -- recognizing that you can't get everybody
- 9 to do what you want them to do, in terms of energy
- 10 conservation, regardless of how far the intervention
- 11 is.
- So -- so there's opp -- there's
- 13 diminishing available opportunities that are economic
- 14 at this point in time. And so it's more so a
- 15 reflection of that. And we are anticipating that the
- 16 DSM market potential study will perhaps give us a
- 17 little more insight into what's in the future.
- But at this point in time, when we're
- 19 looking at the technologies -- and as I mentioned, we
- 20 do look at a number of technologies that aren't being
- 21 promoted by our programs but are being promoted in
- 22 other jurisdictions. And as I -- as I mentioned there,
- 23 those jurisdictions have higher marginal costs or
- 24 higher values associated with the energy conservation
- 25 initiatives that they're undertaking. And so they can

- 1 -- those ec -- those technologies might be economic
- 2 under their market conditions but not under ours.
- 3 So it's -- it's really more of a, This
- 4 is the state of the market right now, more so than us
- 5 saying specifically that we're going to be moving away
- 6 from energy conservation. We're -- we're by no means
- 7 moving away from energy conservation.
- MR. RAYMOND LAFOND: Does Manito --
- 9 does Manitoba Hydro go to door to door, like its staff,
- 10 to -- to educate and market the program?
- MS. LOIS MORRISON: It depends on the
- 12 program. We have two (2) programs in place right now.
- 13 We have our Low-income Energy Efficiency Program,
- 14 which, through some of our -- and I believe Mr. Peters
- 15 will be referring to that -- where we have actually, in
- 16 some cases, attempted to go door to door and knock on
- 17 the door and seek interest in -- in participation in
- 18 the program.
- 19 We also have our water -- sorry, our
- 20 Water and Energy Savers Package Program, which is a --
- 21 a upgrade to your showerhead, faucet aerator. So it's
- 22 water-saving measures that has a actual direct install
- 23 component to it, where we go door to door and install
- 24 it free of charge.
- MR. RAYMOND LAFOND: How would you know

- 1 if I'm low, middle, or high income?
- MS. LOIS MORRISON: For the low-income
- 3 program, the door to door activity has been targeted in
- 4 areas that, by postal code, we have identified as
- 5 having a higher percentage of low-income customers in
- 6 it. We qualify -- we income qualify participants for
- 7 the low-income programs. So if you expressed interest
- 8 in that program, then we will ask for certain
- 9 information in order to qualify you for it.
- 10 MR. RAYMOND LAFOND: I -- I don't ever
- 11 recall Manitoba Hydro, for instance, coming to my door
- 12 and doing an inspection and to determine whether or not
- 13 I could save on my hot water or improve my insulation
- 14 or whatever.
- MS. LOIS MORRISON: We haven't reached
- 16 everybody. And the intention isn't necessarily to
- 17 reach everybody. What we're doing is, there's two (2)
- 18 components to the Water & Energy Saver Program. You
- 19 can -- it would be -- we are attempting to reach as --
- 20 in the higher-density areas, of course, we -- it's
- 21 cheaper for us to go door to door. And so we have been
- 22 in a number of areas in the -- in -- in Winnipeg.
- We have actually, to begin with, with
- 24 the Water & Energy Saver Program, focussed on the low-
- 25 income areas. So depending on where you live,

- 1 obviously, you may not be in that area. And so we've
- 2 also focussed -- in the rural areas, we're focussing on
- 3 areas that have electric heat and -- and potentially
- 4 electric water heating.
- 5 With that Water & Energy Saver Program,
- 6 we've also got a -- an option where you can apply for
- 7 it online to get a free kit sent to you. And so it
- 8 doesn't necessarily have to have the direct install
- 9 component.
- 10 MR. RAYMOND LAFOND: That would lead me
- 11 to believe that there's a lot more potential out there
- 12 if actually people did go door to door to every home in
- 13 the city.
- 14 MS. LOIS MORRISON: It's not the most -
- 15 it's a very costly approach. I would have to go back
- 16 and look at the metrics on it. But, it's -- it's not -
- 17 it is -- it -- to go door to door to every single
- 18 household in Manitoba would be cost prohibitive.
- 19
- 20 CONTINUED BY MR. BOB PETERS:
- 21 MR. BOB PETERS: Ms. Morrison, was
- 22 there a federal government program where the -- an
- 23 auditor would come to the home and do a home audit,
- 24 much the -- the kind that Board member Lafond was just
- 25 asking you about?

- 1 MS. LOIS MORRISON: Yes, that was the -
- 2 that was through the eco -- previously through the
- 3 Energuide for Houses Program, which subsequently became
- 4 the ecoENERGY Program. And under that program, you
- 5 could phone in and request to have an in-home energy
- 6 assessment done on your house which would then allow
- 7 you to qualify for federal government ecoENERGY grant
- 8 dollars for any energy efficiency upgrades.
- 9 MR. BOB PETERS: That program has been
- 10 discontinued?
- MS. LOIS MORRISON: Yes, the federal
- 12 government discontinued that.
- MR. BOB PETERS: I'm back on page 314,
- 14 Ms. Morrison, I just wanted to highlight a couple of
- 15 these programs to make sure that the understanding is
- 16 clear. But if we -- well, we can start from -- we
- 17 started from the cumulative totals. And you've already
- 18 talked about that.
- 19 But from the annual costs, we can see
- 20 that in the test years we're going from \$34 million of
- 21 expenditures, and the number is going to decline to \$17
- 22 million after twelve (12) years approximately.
- 23 MS. LOIS MORRISON: Yes, it declines to
- 24 17 million in 2025/'26.
- 25 MR. BOB PETERS: All right. And -- and

- 1 as we sit here today, that is the current plan of the
- 2 Corporation?
- 3 MS. LOIS MORRISON: Yes.
- 4 MR. BOB PETERS: And if we look at the
- 5 residential customer line, for example, the residential
- 6 programs, you've already told us that in the -- in the
- 7 test years, there are some residential programs ongoing
- 8 and planned. But it appears from this program that the
- 9 residential program will be tapered off and will be
- 10 virtually complete by 2017?
- MS. LOIS MORRISON: Yes.
- MR. BOB PETERS: And there are no plans
- 13 for any additional residential DSM at this point in
- 14 time?
- 15 MS. LOIS MORRISON: We have not
- 16 specifically identified opportunities that -- or
- 17 programs that we'll be pursuing in those future years.
- 18 However, we do have some contingency dollars budgeted
- 19 for those future years to capture any opportunities
- 20 that might come up -- that we might be able to identify
- 21 as part of our planning process.
- MR. BOB PETERS: Okay, and those --
- 23 those contingency expenses that you reference, Ms.
- 24 Morrison, are found on the second-to-bottom line item
- 25 in the -- in the chart?

2784 That is correct. MS. LOIS MORRISON: 1 2 MR. BOB PETERS: All right. And those contingency items could be allocated to any class of 3 customer or any type of program. At this point in time, we just -- you just don't know where it's going 6 to go? 7 MS. LOIS MORRISON: That's correct. MR. BOB PETERS: And it may not be spent at all, I suppose, if there's no program that is 10 cost justified by Manitoba Hydro? 11 MS. LOIS MORRISON: We are hoping that 12 there will be. 13 MR. BOB PETERS: Well, but -- but at 14 this point in time it appears that nothing is planned? 15 MS. LOIS MORRISON: That is correct. 16 MR. BOB PETERS: Okay. 17 THE CHAIRPERSON: If I could ask a 18 question in relation to the Energy Savings Act. I know 19 that there's going to be -- pursuant to that act, will be an energy fund established. 21 Could you explain that to us? 22 MS. LOIS MORRISON: That Affordable 23 Energy Fund is already established --24 THE CHAIRPERSON: Okay. 25 MS. LOIS MORRISON: It was established

- 1 under the win -- Winter Heating Cost Control Act in
- 2 2006. In 2006 it was enacted. And through that, they
- 3 established a fund to support affordable energy
- 4 initiatives and renewable energy initiatives in
- 5 Manitoba.
- Now, what the energy -- under that act,
- 7 there was a certain amount of money allocated. And any
- 8 interests accruing on that were then brought back into
- 9 that fund. But it was a set, fixed amount of money.
- 10 And under the Energy Savings Act, the new act, what
- 11 it's doing is allowing a mechanism for -- at the
- 12 discretion of the Board of Manitoba Hydro, with support
- 13 by the Minister, to allocate additional funds to that
- 14 fund if required.
- 15 THE CHAIRPERSON: So -- so the -- the
- 16 monies flowing into that fund would be at the
- 17 discretion of -- of the parties, I quess, or at least
- 18 at the desire of the parties?
- 19 MS. LOIS MORRISON: Going forward, yes.
- THE CHAIRPERSON: Okay.
- 21 MS. LOIS MORRISON: There was one (1)
- 22 big allotment of money put in, in 2006. And that has
- 23 not been changed since then. And so the Act was
- 24 brought in to -- to recognize that if the Board and the
- 25 provincial government wi -- support -- in the sup -- if

- 1 the Manitoba Hydro Board felt that additional funds
- 2 should be allocated to it to support ongoing
- 3 initiatives or new initiatives, in the theme of the
- 4 Affordable Energy Fund -- which, as I mentioned, is
- 5 around making sure that all customers have access to
- 6 energy efficiency initiatives and supporting renewables
- 7 and such -- that the -- the Manitoba Hydro Board could
- 8 allocate additional funds to it.
- 9 THE CHAIRPERSON: And the monies would
- 10 flow out from that fund how? I mean, how -- I -- I,
- 11 for example, have a bright idea about energy savings.
- 12 Could I access the fund?
- MS. LOIS MORRISON: Right now, the way
- 14 we do it is you can approach -- there -- there are
- 15 different ways to -- to come forward, but usually it's
- 16 through initiatives that Manitoba Hydro had identified
- 17 as being good opportunities.
- I know -- I know we're going talk a
- 19 little bit more about what's already been allocated, in
- 20 terms of the Affordable Energy Fund. But generally --
- 21 say, for example, the Low-income Energy Efficiency
- 22 Program is funded in part through the Affordable Energy
- 23 Fund. And part of the dollars that are going towards
- 24 it were petitioned, I guess -- basically a -- a -- an
- 25 agency outside of Manitoba Hydro came to Manitoba Hydro

- 1 and said, you know, We want to do -- and we were
- 2 working with them to do more in the low-income sector.
- 3 And so we identified these dollars to be used to
- 4 support that initiative. So it was kind of a joint
- 5 initiative to move forward with those.
- 6 But, yes, I would say that if a -- if
- 7 someone -- if an agency or another organization came to
- 8 Manitoba Hydro, they could request funding through it.
- 9 But it would have to be approved through our executive
- 10 and through the -- the funding has been approved,
- 11 generally, in the past through the -- the Board of
- 12 Manitoba Hydro, so the allocation has been.
- 13 So if a program or -- or dollars, it has
- 14 to be approved through the -- through the Board.

15

- 16 CONTINUED BY MR. BOB PETERS:
- MR. BOB PETERS: Ms. Morrison, let's --
- 18 let's jump to that very point that you and the Chairman
- 19 are discussing by turning to page 353 of the Board
- 20 counsel book of documents.
- 21 The -- this is under Tab 36, PUB Exhibit
- 22 14, page 353.

23

24 (BRIEF PAUSE)

- 1 MR. BOB PETERS: First of all, on page
- 2 353, Ms. Morrison, there is a table that contains
- 3 Manitoba Hydro's intentions with respect to the
- 4 Affordable Energy Fund that had been previously set up
- 5 through provincial legislation.
- 6 Have I got that right?
- 7 MS. LOIS MORRISON: Yes, that's
- 8 correct.
- 9 MR. BOB PETERS: And -- and Mr. Rainkie
- 10 can probably remember this, but the Affordable Energy
- 11 Fund was set up by the Province of Manitoba,
- 12 requisitioning a certain amount of Manitoba Hydro's
- 13 export revenues into the Affordable Energy Fund?
- 14 MR. DARREN RAINKIE: The -- the details
- 15 of the -- I -- I think that's correct, from what I
- 16 recall, Mr. Peters, in terms of where the funds were
- 17 sourced from. I was going to note, as I was listening
- 18 to the discussion here, if you turn to page 84 of our
- 19 annual report for one (1) minute, there's a -- Note 21
- 20 to the financial statements outlines that the original
- 21 amount that was included in that fund was \$35 million,
- 22 and at the end of 2011/'12 there was \$20 million
- 23 remaining in the funds.
- 24 So -- so there's a little bit of the
- 25 history for the Board in that short note, Note 21. And

- 1 it discloses the remaining expenditures, which -- which
- 2 is an important issue to understand as well, so.
- MR. BOB PETERS: And I think, Mr.
- 4 Rainkie, if you -- I don't want to look at yours, you
- 5 look at mine. I'm going to look at 353. It'll tell
- 6 you how much Manitoba Hydro has spent to date out of
- 7 the Affordable Energy Fund and how much is -- by doing
- 8 math, how much is remaining to be spent.
- 9 I think we probably come to a similar --
- 10 similar totals?
- MR. DARREN RAINKIE: Yes, I think that
- 12 was the purpose of this table, Mr. Peters.
- 13 MR. BOB PETERS: And, in fact, Mr.
- 14 Rainkie, \$35 million was the initial appropriation to
- 15 create the Affordable Energy Fund.
- 16 And the Board, I believe, had asked that
- 17 the interest be accumulated on that amount?
- 18 MR. DARREN RAINKIE: Yes, and it is
- 19 accumulated.
- 20 MR. BOB PETERS: Yes. And that's why
- 21 the account is \$37.4 million in total, as opposed to
- 22 the 35 million that -- that started it?
- 23 MR. DARREN RAINKIE: Yes, that's --
- 24 that's what -- how I understand it, Mr. Peters.
- MR. BOB PETERS: All right. And, Ms.

- 1 Morrison, by turning back to page 350 of the book of
- 2 documents, the very programs that are supported by the
- 3 Affordable Energy Fund are -- are listed by Manitoba
- 4 Hydro in response to this Information Request.
- 5 And these are the types of programs that
- 6 you and the Chairman were discussing previously,
- 7 correct?
- 8 MS. LOIS MORRISON: That is correct.
- 9 MR. BOB PETERS: Put bluntly, if the
- 10 Chairman has a -- a great idea, he'd have to currently
- 11 try to fit in within one of these programs that
- 12 Manitoba Hydro has, to see if the Affordable Energy
- 13 Fund would be used to support his program?
- 14 MS. LOIS MORRISON: That is correct.
- MR. BOB PETERS: Does Manitoba Hydro --
- 16 does Manitoba Hydro co-op with -- with private partners
- 17 on DSM initiatives? Or does Manitoba Hydro have to run
- 18 the entire program?
- 19 MS. LOIS MORRISON: Could you explain
- 20 what you mean by "co-op"?
- 21 MR. BOB PETERS: All right. If a third
- 22 party approached Manitoba Hydro with an idea that would
- 23 be an energy savings idea, would Manitoba Hydro provide
- 24 monies to that person to initiate that program and to
- 25 carry it out?

- 1 MS. LOIS MORRISON: If an individual or
- 2 a company came to Manitoba Hydro and said that they had
- 3 a proposal for an energy efficiency initiative and we
- 4 were able to define a -- a supportable business case
- 5 for it, I believe we would entertain it.
- 6 MR. BOB PETERS: But in that instance,
- 7 it's Manitoba Hydro that would then carry out the
- 8 program, as opposed to letting the individual carry it
- 9 out?
- 10 MS. LOIS MORRISON: Under our current
- 11 constructs, I -- I'm not sure if what you're referring
- 12 to is whether we would contract with them to deliver it
- 13 on our behalf?
- 14 MR. BOB PETERS: No, I was saying if --
- 15 with the microphone on, if it's my bright idea, you
- 16 fund me and I will go implement it. And you'll get the
- 17 benefit of the energy savings, and I may make some
- 18 money along the way myself.
- 19 Does that opportunity exist for anybody?
- 20 MS. LOIS MORRISON: I think we'd be
- 21 willing to entertain it.
- MR. BOB PETERS: You'd be -- Manitoba
- 23 Hydro would be willing to entertain the funding a
- 24 third party to carry out a DSM initiative that is not
- 25 Manitoba Hydro's initiative?

- 1 MS. LOIS MORRISON: It would depend
- 2 upon what they were proposing to undertake and the
- 3 market they were attempting to reach. I -- given that
- 4 it's a hypothetical, I'm -- I'm not sure I can really
- 5 commit to it. It's something that we would entertain.
- 6 We would definitely not turn someone down.
- 7 As I mentioned, we do have -- we do
- 8 contract with third-party delivery agencies to provide
- 9 services. Both the Water & Energy Saver Program and
- 10 the Fridge Retirement Program are both contracted to
- 11 outside parties to actually deliver the program on our
- 12 behalf. It's their staff, their company. And they are
- 13 in a service contract with us to provide so many
- 14 recycled fridges and so many installed water -- water
- 15 energy efficiency measures.
- 16 MR. BOB PETERS: All right. I -- I
- 17 think that's helpful. The Board will see -- and I'm
- 18 not sure how much detail I'd go on now or later.
- 19 But there's a number of initiatives that
- 20 are spelled out, both on page 350 and also summarized
- 21 on 353, as to where Manitoba Hydro has earmarked the
- 22 money to be spent?
- 23 MS. LOIS MORRISON: For the affordable
- 24 energy fro -- for the Affordable Energy Fund progra --
- 25 fund? Yes.

- 1 MR. BOB PETERS: Yes, just -- just
- 2 dealing with the Affordable Energy Fund. Let's turn to
- 3 -- let's turn to page 354 and talk about the recent
- 4 energy -- sorry, the -- the recently announced Energy
- 5 Savings Act.
- 6 The response provided on page 354
- 7 indicates that there's three (3) elements to the plan.
- 8 One (1) is the Affordable Energy Fund, and that's
- 9 really just the continuation of a previous fund that
- 10 had been set up, correct?
- 11 MS. LOIS MORRISON: The Act allows for
- 12 continued funding of that fund, yes.
- 13 MR. BOB PETERS: And -- and the
- 14 continuation of funding for that Affordable Energy Fund
- 15 rests with the -- the -- with Manitoba Hydro in
- 16 consultation with the minister responsible for the
- 17 Crown Corporation?
- 18 MS. LOIS MORRISON: That is correct.
- 19 MR. BOB PETERS: And at this point in
- 20 time, from what we've seen in terms of the numbers
- 21 you've shown us, there is at this point in time no
- 22 announced intention to continue with this fund other
- 23 than the \$35 million that was initially seeded into it.
- MS. LOIS MORRISON: At this point in
- 25 time we have not identified any -- we have not made any

- 1 requests to add any additional funds to the Affordable
- 2 Energy Fund.
- MR. BOB PETERS: And any request to add
- 4 to this will come for March 31 of 2013, by the time you
- 5 have to report on the energy efficiency plan?
- 6 MS. LOIS MORRISON: The two (2) items
- 7 are actually separate. The Affordable Energy Fund was
- 8 only -- was set up to support energy efficiency
- 9 initiatives; the energy savings plan is separate from.
- 10 Our Power Smart plan is actually funded through
- 11 Manitoba Hydro's capital expenditures, and the
- 12 Affordable Energy Fund was structured to help customers
- 13 that may have difficulty accessing the initiatives --
- 14 access it.
- So, the Affordable Energy Fund was
- 16 really a supporting funding recognizing, for example,
- 17 low income customers. The way our -- our programs are
- 18 structured is, taking for example the home insulation
- 19 program, you go to the store, you buy your insulation,
- 20 you submit your receipts to us, and we give you a
- 21 rebate.
- Now, someone who is in a financially
- 23 difficult situation isn't necessarily in a position to
- 24 put forward that upfront cost to do the insulation
- 25 upgrade. And so what the Affordable Energy Fund was --

- 1 was doing was recognizing that dollars may need to be
- 2 set aside to assist people who have difficulty in
- 3 accessing Manitoba Hydro's programs to do so. So it --
- 4 it was structured to do that.
- 5 So these two (2) items are somewhat --
- $\delta$  are -- although they are tied together, they are not --
- 7 one (1) is not require -- there's -- there's not a
- 8 timing requirement attaching the two (2) together.
- 9 MR. BOB PETERS: And at this point in
- 10 time Manitoba Hydro hasn't sought to continue with the
- 11 Affordable Energy Fund with any additional monies other
- 12 than what's already been earmarked for that fund.
- 13 MS. LOIS MORRISON: At this time we
- 14 have not yet -- yes, you're correct. We have not yet
- 15 identified any additional funds to be brought into that
- 16 -- any other additional dollars to be put into that
- 17 fund.
- MR. BOB PETERS: And I think, as Mr.
- 19 Rainkie was saying, there's still a lot of money in
- 20 that fund. That was his note, I think, from the
- 21 financial report, and we can see that on the bottom of
- 22 page 353, the amount that's expected to be expended in
- 23 -- in the fiscal year '13, '14, '15, all the way
- 24 through to -- to '21.
- MS. LOIS MORRISON: The dollars that

- 1 are identified, you are correct in that they have not
- 2 yet all been spent; however, they have been committed
- 3 to initiatives. And so, if Mr. Chairman were to come
- 4 to us with -- working with say a social enterprise to
- 5 do additional work in a different community, or -- or
- 6 were to come to us with a new wind project, or a new
- 7 special initiative that would fall within the
- 8 guidelines of the Affordable Energy Fund, we would
- 9 either have to reallocate dollars that are within that
- 10 fund or seek new funds.
- 11 MR. BOB PETERS: And at this point in
- 12 time there's been no seeking of additional funds, but
- 13 that could be done, from your previous answers, at any
- 14 time Manitoba Hydro makes such a request of -- of the
- 15 government?
- 16 MS. LOIS MORRISON: That is correct.
- 17 MR. BOB PETERS: All right. The second
- 18 part of this new Energy Savings Act, as -- as depicted
- 19 on -- and is described on page 354, is the energy
- 20 efficiency plan itself. And you've indicated this is
- 21 going to be the Power Smal -- the Power Smart plan
- 22 going forward?
- 23 MS. LOIS MORRISON: That is correct.
- 24 MR. BOB PETERS: And then the third
- 25 initiative that's mentioned is called, "On-Meter

- 1 Efficiency Improvements," and this again is to allow
- 2 Manitoba Hydro some flexibility to establish efficiency
- 3 programs that would be recovered through a monthly
- 4 charge to the customer?
- 5 MS. LOIS MORRISON: That is correct.
- 6 MR. BOB PETERS: And not to keep us in
- 7 suspense any longer; on page 355 there is such a
- 8 program already that is announced, P-A-Y-S, which I
- 9 think stands for "Pay As You Save". That's the
- 10 initiative?
- MS. LOIS MORRISON: That's correct.
- 12 MR. BOB PETERS: And the essence of
- 13 that program is, in my round figures if a customer is
- 14 paying two hundred dollars (\$200) a month on an average
- 15 bill, and that customer wants to install some energy
- 16 efficiency in their home, Manitoba Hydro may end up
- 17 going out and purchasing the appliance that would be
- 18 energy efficient, and allows that customer to pay it
- 19 back by continuing to pay two hundred dollars (\$200) a
- 20 month on their bill with a portion of it being
- 21 allocated to -- to pay for the im -- the upfront costs
- 22 of the -- of the energy efficient item?
- 23 MS. LOIS MORRISON: That is correct,
- 24 except that the customer would go out and find where to
- $25\,$  purchase it and we would finance it through the on-

- 1 meter charge.
- 2 MR. BOB PETERS: Does Manitoba Hydro
- 3 fund the acquisition or does it just fund the
- 4 homeowner?
- 5 MS. LOIS MORRISON: We pay for the
- 6 installation. So, for example, a customer may decide
- 7 that they are going to upgrade the insulation in their
- 8 home, or install say a drain water heat recovery
- 9 system. They would -- they would talk to a contractor
- 10 who is registered with Manitoba Hydro and they would
- 11 get preapproval for the installation.
- 12 The contract then -- the contractor
- 13 would install the work, the customer would sign off
- 14 that that work has been installed to their
- 15 satisfaction. Manitoba Hydro would remit payment to
- 16 the contractor on the customer's behalf, and then set
- 17 up the on -- the on-meter charge on their monthly bill.
- 18 MR. BOB PETERS: And -- and the
- 19 intention is that the customer's bill isn't going to
- 20 necessarily increase; it's supposed to stay the same?
- 21 MS. LOIS MORRISON: The intention is
- 22 that their bill will not increase. Their bill will
- 23 actually be less than what it was prior to -- their
- 24 average expected bill or estimated bill would be less
- 25 than. So when we set the calculations for what they

- 1 can finance, it's set to be such that their average
- 2 monthly -- that the average monthly energy savings
- 3 would be greater than what their average monthly bill
- 4 pay -- financing charge would be.
- 5 MR. BOB PETERS: What they're saving in
- 6 their energy bill, they will end up remitting that as -
- 7 as a -- a payment on account of what Manitoba Hydro
- 8 has loaned to them?
- 9 MS. LOIS MORRISON: Correct.
- 10 MR. BOB PETERS: All right.
- MR. RAYMOND LAFOND: How long would
- 12 this last? How many years?
- MS. LOIS MORRISON: It depends on the
- 14 technology that they've chosen to install. So what it
- 15 does is it -- it extends the financing period over
- 16 which a customer can choose to have -- payoff the
- 17 installation. So insulation can be paid off over
- 18 twenty (20) years.
- 19 We have another financing program that -
- 20 that customers can also choose from, which is the
- 21 Power Smart residential loan, which is a -- also it's
- 22 an -- it's an on-bill financing program where they can
- 23 choose to finance up to seventy-five hundred dollars
- 24 (\$7,500) worth of ins -- of energy efficient upgrades
- 25 over a five (5) year period.

2800 MR. RAYMOND LAFOND: 1 Again, I'm coming back to this example of a two hundred dollar (\$200) a month bill; that could essentially last for fifty (50) 3 years, until the debt is paid? 5 6 (BRIEF PAUSE) MS. LOIS MORRISON: So the longest term that we have is twenty-five (25) years for insulation. And what it is is it's -- it's tied to what the energy 10 savings could be. And so we -- we estimate what the 11 12 average bill will be for the year, and we have an 13 estimate of what the average savings are going to be and we ensure that the customer cannot finance more 14 15 than that for that -- that upgrade. And the customer can choose to finance less or they can choose to shorten the term. 17 18 MR. RAYMOND LAFOND: The two hundred 19 dollars (\$200) a month would be subject to rate increases however, am I correct? 21 MS. LOIS MORRISON: Oh, yes. wouldn't -- it's -- it's not that we set their bill to 22 be two hundred dollars (\$200) a month forever; what we 24 do is we set the payment to be equal to the energy 25 savings. So their bill -- because a customer may not

- 1 opt to go onto monthly budget bill -- sorry, go onto
- 2 our monthly budget billing pro -- service. So their
- 3 bill will still change month to month but the financing
- 4 charge or the char -- the on-meter charge is based on
- 5 the average monthly savings.
- 6 MR. RAYMOND LAFOND: So, what is the
- 7 incentive for the customer to remain conscious about
- 8 the use of energy, because his -- his bill would
- 9 therefore be more or less fixed? In other words,
- 10 whether or not the lights stay on, you don't lower the
- 11 thermostat at night, the teenagers take twenty-five
- 12 (25) minute showers, like, what's the incentive to --
- 13 to prevent that from happening?
- 14 MS. LOIS MORRISON: Well, their bill
- 15 doesn't say fixed, because if they undertake different
- 16 measures, their bill will go down. What we've -- we've
- 17 done is we've tied the energy savings from that measure
- 18 to their bill. And so we've said okay, so -- so -- say
- 19 for example we have the household that has the -- the
- 20 two (2) teenagers that shower incessantly and they
- 21 undertake an insulation upgrade. And actually for
- 22 insulation, you can actually do it so that your net
- 23 bill goes down, because the energy savings are usually
- 24 that much better.
- So, I think the thing in that case, the

- 1 person's first year bill -- 'cause we're only look at
- 2 the first year bill when we set the energy -- when we
- 3 set the -- the financing charge. So, their first year
- 4 average bill might be two hundred dollars (\$200), a
- 5 monthly bill. So they install the energy efficiency
- 6 upgrade and now we're going to say, Charge them fifteen
- 7 (\$15) dollars a month, but their savings were twenty
- 8 (20), so now, they're paying a hundred and ninety-five
- 9 dollars (\$195) a month on average.
- 10 Then what happens is the two (2)
- 11 teenagers who shower incessantly, our -- our lovely
- 12 contractor shows up to install the energy efficient
- 13 shower heads, and so now they are going to be saving --
- 14 their bill will go down because they are saving on
- 15 their electric water tank usage -- their electric water
- 16 usage.
- 17 So say their average bill now will
- 18 decrease based on that consumption. That consumption
- 19 rate will still change. So, now that will go down, so
- 20 maybe now they're only paying a hundred and ninety
- 21 dollars (\$190). But the financing charge was still
- 22 fifteen dollars (\$15).
- 23 THE CHAIRPERSON: Is the program of --
- 24 you know, looking at the program from Manitoba Hydro's
- 25 perspective, is that an economic program, in a sense

- 1 that the -- it funds itself? In other words, what I'm
- 2 trying to understand is when I first heard about the
- 3 program, you know, I wondered, Well, what is it going
- 4 to cost Manitoba Hydro?
- 5 And I guess the question is, the net --
- 6 is there a net cost to you to implement this program?
- 7 MS. LOIS MORRISON: This program was
- B originally designed to be cost recovery, which means we
- 9 recover our costs through the interest rate that's --
- 10 that's on the program. However, we are -- we are
- 11 subsidizing the interest rate to the -- to -- from 3. -
- 12 sorry, from 4.8 percent to 3.9 percent, and that
- 13 subsidy is going -- is coming from the Affordable
- 14 Energy Fund that we discussed earlier.
- 15
- 16 CONTINUED BY MR. BOB PETERS
- MR. BOB PETERS: Ms. Morrison, the Pay
- 18 As You Save Program that we talked about, that was
- 19 started according to this news release back in November
- 20 of 2012?
- 21 MS. LOIS MORRISON: That is correct.
- MR. BOB PETERS: And is there a target
- 23 or maximum amount that Manitoba Hydro will loan under
- 24 this program?
- 25 MS. LOIS MORRISON: Manitoba Hydro will

- 1 finance up to what the ener -- the value of those
- 2 energy savings are. So, really, for a customer
- 3 participating, if the energy savings would -- depending
- 4 on what those energy savings will achieve for that
- 5 customer, that's what we will finance up to.
- 6 MR. BOB PETERS: I -- I may not have
- 7 asked to question properly. I meant is there a cap on
- 8 this program from Manitoba Hydro's -- the amount of
- 9 money Manitoba Hydro's prepared to outlay under this
- 10 program?
- MS. LOIS MORRISON: No, we do not have
- 12 a cap in place.
- MR. BOB PETERS: And you've told that
- 14 to Mr. Rainkie?
- MS. LOIS MORRISON: He's used to us
- 16 doing things like this.
- 17 MR. BOB PETERS: All right. And I
- 18 suppose it's pretty early to find out whether this
- 19 uptake on this program is -- is meeting expectations?
- 20 MS. LOIS MORRISON: It -- it is very
- 21 early, having only about a month and a coup -- a few
- 22 days of implementation, yes.
- MR. BOB PETERS: And, it's indicated
- 24 that the finance rate is fixed at 3.9 percent for a
- 25 five (5) year term?

- 1 MS. LOIS MORRISON: It's fixed at 3.9
- 2 percent for the first five (5) years of the loan term.
- 3 MR. BOB PETERS: And the difference
- 4 between the actual financing interest rate incurred by
- 5 Manitoba Hydro and the three point nine (3.9) is one
- 6 that is recovered out of the Affordable Energy Fund?
- 7 MS. LOIS MORRISON: That is correct.
- 8 MR. BOB PETERS: But if Manitoba
- 9 Hydro's current short term borrowing rate is lower than
- 10 3.9 percent, why should there be any debiting of the
- 11 Affordable Energy Fund?
- 12 MS. LOIS MORRISON: As I mentioned,
- 13 it's fully cost recovery, which means that all the
- 14 administration that is associated with providing this
- 15 program to customers -- so we have people that have to
- 16 actually process the loan application, set up the
- 17 billing on their loan. All those components of this
- 18 program are recovered through that interest rate, along
- 19 with any potential bad debt.
- 20 MR. DARREN RAINKIE: Mr. Peters, I was
- 21 also going to add that if you're loaning people money
- 22 for more than twelve (12) months, I'm not sure that you
- 23 would be assuming that you would be funding that out of
- 24 our short-term line of credit. Usually you would
- 25 calculate interest rate that would match the term of

- 1 the loan.
- MR. BOB PETERS: And your -- your
- 3 current long term rate, Mr. Rainkie, is what? I don't
- 4 have IFF 12 --
- 5 MR. DARREN RAINKIE: Yeah, I was just
- 6 looking for that -- that table, Mr. Peters. In terms
- 7 of our forecast, it's probably in the 4 to 5 percent
- 8 range. Let me just find it here; what our forecast is
- 9 in -- at any rate.
- 10 MR. BOB PETERS: Page 3 if you have it
- 11 handy.
- MR. DARREN RAINKIE: Yeah, page 3. If
- 13 you add the provincial guarantee fee, you're looking
- 14 at, you know, 4.3 percent to somewhere in the 5 percent
- 15 range. So I just wanted to observe that you normally
- 16 wouldn't fund a short-term loa -- sorry, a long --
- 17 let's call it a medium-term loan, because a long-term
- 18 debt is usually thirty (30) years out of -- out of your
- 19 short-term line.
- MR. BOB PETERS: And in addition to the
- 21 interest rate differential that -- Mr. Rainkie, that
- 22 Ms. Morrison talked about, any internal Manitoba Hydro
- 23 costs are then also recovered out of the Affordable
- 24 Energy Fund? Or Ms. Morrison.
- MS. LOIS MORRISON: We -- what we're

2807 doing is we're funding the difference in the interest charge, or the overall charge for the program. So that may change as the time invested in the program changes. 3 So it's not that we specifically delineated that these components of this cost or -delivering this program are being affor -- funded through the Affordable Energy Fund. What we say is it 7 costs us this much to deliver this program as an interest charge on the -- on the -- on the loans, and 10 what do we need to take from the Affordable Energy Fund 11 to buy it down to 3.9 percent. 12 MR. BOB PETERS: All right. What --13 what interest rate do you -- do you calculate as the 14 equivalent of the all in costs of Manitoba Hydro? 15 MS. LOIS MORRISON: We're estimating it 16 to be 4.8 percent. 17 18 (BRIEF PAUSE) 19 20 MR. BOB PETERS: Mr. Chairman, yes, 21 just for technology reasons, would it be okay if we took a short recess? 22 23 THE CHAIRPERSON: Okay. Let's take ten 24 (10) minutes. 25

2808 --- Upon recessing at 2:27 p.m. --- Upon resuming at 2:46 p.m. 3 MR. BOB PETERS: Thank you, Mr. Chairman. Now that I have a new energy efficient microphone I'm going to continue. 7 CONTINUED BY MR. BOB PETERS: MR. BOB PETERS: Ms. Morrison, we may -9 10 - I'm not sure we're going to come back to what we've been talking about in any depth, but I would like to 11 12 turn at this point to the costs expended by the Utility 13 to date on the DSM by having reference to page 3-1-7, 317, found at the last page of Tab 30 of Board 14 15 counsel's book of documents. And this is a Schedule A5 16 that is reproduced, and for some of us we have an enlarged version. If somebody wants it enlarged, I 17 18 have extra copies. 19 20 (BRIEF PAUSE) 21 22 MR. BOB PETERS: Ms. Morrison, you have 23 before you then page 317 from the book of documents, as 24 well as the extra copies that have been enlarged if you 25 chose to look at them, only because the schedule

- 1 contains copious numbers and small enough font that it
- 2 may make it more legible to have the bigger copy.
- 3 Do you have that now?
- 4 MS. LOIS MORRISON: Yes, I do. Thank
- 5 you.
- 6 MR. BOB PETERS: And this schedule is
- 7 from your Power Smart plan, correct?
- 8 MS. LOIS MORRISON: That is correct.
- 9 MR. BOB PETERS: And it's showing the
- 10 Board what utility costs have been incurred in respect
- 11 of the various and specific programs?
- 12 MS. LOIS MORRISON: It does include
- 13 lines that indicate what has been incurred to date, and
- 14 it also includes our projections going forward.
- 15 MR. BOB PETERS: And it ties out to the
- 16 numbers we talked about previously of the -- of the
- 17 program targeting \$732 million as a cumulative total in
- 18 the sunset years of the Power Smart plan?
- 19 MS. LOIS MORRISON: That is correct.
- 20 MR. BOB PETERS: And so what we see
- 21 again is, starting on 2011 and '12, the various
- 22 expenditures by year, and then it was -- this was part
- 23 of the 2011 Power Smart plan, correct?
- 24 MS. LOIS MORRISON: That is correct.
- MR. BOB PETERS: So the -- so the

- 1 numbers here are all forecast numbers?
- MS. LOIS MORRISON: That is correct.
- 3 MR. BOB PETERS: And we see -- we see
- 4 the program broken down into some specifics, and
- 5 including the specific programs that Manitoba Hydro is
- 6 continuing. The new home program, can you explain to
- 7 the Board why or how Manitoba Hydro is involved in
- 8 expending monies on new homes?
- 9 MS. LOIS MORRISON: That is one (1)
- 10 program that has been delayed in launch. We are still
- 11 in the -- finalizing the design, and trying to put
- 12 together an economic business case for that initiative.
- 13 Previously, we had a new home program which worked with
- 14 homebuilders and provided incentives to customers to
- 15 have their buil -- homes built to a higher Power Smart
- 16 standard.
- MR. BOB PETERS: And that previous
- 18 program has been discontinued?
- 19 MS. LOIS MORRISON: That previous
- 20 program ended when the Manitoba Building Code adopted
- 21 energy efficiency standards as part of their code.
- Oh, and I should note that those energy
- 23 standards -- those energy standards are what we had
- 24 been promoting under the program, in terms of the
- 25 increased levels of insulation, furnace efficiencies,

- 1 et cetera.
- 2 MR. BOB PETERS: I think to capitalize
- 3 on the point you just made with the Board, if the Board
- 4 and you, Ms. Morrison, can turn back to page 314, what
- 5 you're indicating to the Board is that, while Manitoba
- 6 Hydro has embarked on Power Smart programs, you're also
- 7 -- for lack of better words or in my vernacular, you're
- 8 lobbying the government in the industry for higher and
- 9 better codes related to building envelopes?
- 10 MS. LOIS MORRISON: We work -- we --
- 11 lobbying would be a good word. We actually support a
- 12 lot of the work that is done in terms of codes and
- 13 standards. Not just for building code for the
- 14 commercial and residential sector, but also for
- 15 standards for technologies, equipment, and such;
- 16 working with the Federal Government, with the CSA, to
- 17 help define how we should measure or how we should set
- 18 the standards for energy efficiency, or how do we
- 19 measure energy efficiency. 'Cause that's one (1) of
- 20 the -- the things that have to be in place prior to
- 21 even launching a program is, how do you create a
- 22 consistent basis for technologies to be measured
- 23 against, in terms of defining energy efficiency. So
- 24 we're quite engaged at that level.
- We're also engaged at the level where

- 1 we're working with the Federal Government to identify
- 2 what those minimum efficiency performance levels should
- 3 be for equipment.
- So, we work, we lobby, we support, we --
- 5 we fund a number of studies and such to -- to support
- 6 the adoption of codes and standards at both the Federal
- 7 and provincial level.
- 8 MR. BOB PETERS: And when a code or a
- 9 standard is enacted, Ms. Morrison, it saves Manitoba
- 10 Hydro from having to educate the consumer because in
- 11 essence, the consumer gets no choice, they have to
- 12 comply with the building code or a standard of
- 13 appliance that's sold in the market place?
- 14 MS. LOIS MORRISON: I would agree to
- 15 that to a certain extent. Our strategy -- it depends
- 16 on the technology we're talking about. There's certain
- 17 technologies that customers really don't spend a lot of
- 18 time thinking about in terms of the energy efficiency
- 19 and we do a lot of work behind the scenes, I guess you
- 20 could say, in terms of, like, equipment standards for
- 21 consumer electronics, and hot water tanks and such.
- But when you get into things like the
- 23 building codes, you really have to work with the market
- 24 to get the market to a point where they would accept
- 25 that code in place and understand how that code impacts

- 1 their operations prior to being adopted. So, in those
- 2 cases, you're really cutting off the laggards.
- 3 So, in terms of the building code for
- 4 the res -- for residential building code, we have to
- 5 make sure that the industry has the capacity or the
- 6 capability to build to that standard, and the
- 7 understanding of how it should be built prior to
- 8 bringing in the code.
- 9 MR. RAYMOND LAFOND: Who brings in the
- 10 codes? Is it not governments and municipalities?
- 11 MS. LOIS MORRISON: The provincial
- 12 government is responsible for the building code. The
- 13 Federal Government will establish a national code at
- 14 which point the provincial government will adopt it
- 15 with Manitoba amendments. When it comes to equipment,
- 16 then, for the most part, equipment is set at the
- 17 Federal level and it's usually based on what's allowed
- 18 to be imported into the country. The government -- the
- 19 provincial government can also enact regulations to
- 20 affect equipment being imported into the province.

- 22 CONTINUED BY MR. BOB PETERS
- 23 MR. BOB PETERS: Just to give the Board
- 24 some examples of some recent successes then, Ms.
- 25 Morrison, you had mentioned that the new home program

- 1 was a success because the building code had been
- 2 changed to a standard that Manitoba Hydro had been
- 3 promoting in the years before that?
- 4 MS. LOIS MORRISON: A number of the
- 5 measures that were promoted under the Power Smart New
- 6 Home Program were adopted into the new code, yes.
- 7 MR. BOB PETERS: Such as?
- 8 MS. LOIS MORRISON: Increased attic
- 9 insulation. Let me get my list. So, we had an
- 10 increase in the attic insulation, we have a window
- 11 requirement, a minimum efficiency for windows. We have
- 12 a -- now all new homes must have an mid-efficient HRV
- 13 system for ventilation.
- 14 We have a minimum efficiency requirement
- 15 for heating systems, for -- sorry, natural gas heating
- 16 systems. We have -- for fireplaces, they have to have
- 17 a electronic ignition, natural gas fireplaces. And we
- 18 also have a number of water measures that were included
- 19 in the code, related to faucets and showerheads.
- 20 MR. BOB PETERS: And so on page 314,
- 21 when the Board sees that there's 3.7, or 3.9, or 3 --
- 22 approximately \$3.6 million spent going forward on
- 23 support and codes and standards, that's primarily wages
- 24 and benefits paid to Manitoba Hydro staff who support
- 25 those activities?

2815 1 MS. LOIS MORRISON: The majority of it is, yes. 3 MR. BOB PETERS: What would be other expenditures that might be included in that, if you can recall? 6 MS. LOIS MORRISON: As I mentioned, we will fund some joint studies with other agencies, such as the Canadian Standards Association, working with other utilities. 10 11 (BRIEF PAUSE) 12 13 MR. BOB PETERS: Is there any financial benefit to the utility who comes up with the idea first 14 15 for energy efficiency? 16 MS. LOIS MORRISON: Do you mean who 17 comes up with the program first, or the technology 18 first, or the --19 MR. BOB PETERS: Whose ever idea it is first to implement any one (1) of these savings 21 programs. Do -- do you have to pay other utilities to gain access to their knowledge if they -- if they 22 23 invent the idea before you do? 24 MS. LOIS MORRISON: No. Actually, we work very cooperatively with other utilities. We

- 1 regularly share program ideas, program experiences,
- 2 what worked here, what didn't work here. It's all part
- 3 of building the capacity within the industry, overall.
- 4 There is no buying the program from another agency,
- 5 between utilities.
- 6 MR. BOB PETERS: Okay. So from whom
- 7 would you buy a program?
- MS. LOIS MORRISON: Well, it's -- it's
- 9 in relation to your comment before, where there could
- 10 be other -- that you can contract a -- a third-party
- 11 agency to provide you with a program. So you can pay
- 12 another agency to come in and deliver a program geared
- 13 to a certain target market. There are -- there are
- 14 service providers out there that do that. So they --
- 15 they themselves would also borrow from other agencies,
- 16 also.
- MR. BOB PETERS: We -- we began this
- 18 conversation on page 317 to talk about the specifics of
- 19 the New Home Program. And I take from the answers
- 20 you've given is that that one (1) really hasn't gotten
- 21 off the ground at this point in time?
- MS. LOIS MORRISON: No, not yet.
- 23 MR. BOB PETERS: And you mentioned that
- 24 you were still trying to create the -- the business
- 25 case for it?

- 1 MS. LOIS MORRISON: As I mentioned, we
- 2 -- we have a new base-case for what is the minimum
- 3 level of efficiency. That makes it that mu -- so -- so
- 4 now you -- you've cut off a certain amount of the
- 5 energy -- you've captured a num -- a -- a large chunk
- 6 of the energy savings in the code, so now we have to
- 7 get -- get that much thinner to get to the next level,
- 8 and so to find a cost-effective approach for a new
- 9 home. And a program that would be effective across the
- 10 overall sector, the overall residential sector is -- is
- 11 what we're, right now, tasked with.
- MR. BOB PETERS: And it appears from
- 13 the residential sector the -- the Insulation Program
- 14 and the Fridge Recycling Program are the ones in which
- 15 the majority of the money is being spent at this point
- 16 in time?
- 17 MS. LOIS MORRISON: That is correct.
- 18 MR. BOB PETERS: And that corresponds
- 19 with Manitoba Hydro believing that that's -- this isn't
- 20 meant pejoratively either, but that's the -- that's the
- 21 lowest hanging fruit at this point of time?
- MS. LOIS MORRISON: The largest
- 23 opportunities lie in those areas right now.
- 24 MR. BOB PETERS: They're the easiest to
- 25 assess, is what I was trying to --

2818 1 MS. LOIS MORRISON: Well... 2 MR. BOB PETERS: -- get at? 3 MS. LOIS MORRISON: They're the most economic to access. When you look at a home insulation -- when you look at the majority of your energy costs in an electrically heated house it's in the heating system. And therefore, undertaking measures to improve 7 the building envelope will return a greater benefit to the utility and to the customer. And, therefore, it 10 has more opportunity attached to it and, therefore, we 11 will invest more in it. 12 MR. BOB PETERS: Now, the programs 13 we've just talked about on page 317, at the top under "residential," Ms. Morrison, relate to incentive-based 14 15 programs, correct? 16 MS. LOIS MORRISON: I'm sorry, could 17 you repeat that? 18 MR. BOB PETERS: The programs that 19 we've been talking about under "residential," that's the New Home Program or the Fridge Program or insulation, those are considered incentive-based 21 22 programs by Manitoba Hydro? 23 MS. LOIS MORRISON: That is correct. 24 MR. BOB PETERS: Incentive-based,

because Manitoba Hydro has to outlay money to the

2819 customer to incent them to -- to partake? 2 MS. LOIS MORRISON: That is true. 3 MR. BOB PETERS: And then you also -and -- and if we look to the far right-hand side of page 317 in the -- the -- it -- there's a number that indicates 7 percent. Does the Board understand that to mean that 7 percent of the Utility's costs that are 7 forecast will be spent on residential matters? 9 MS. LOIS MORRISON: That is correct. 10 MR. BOB PETERS: And specifically 11 residential matters that involve incentives? 12 13 (BRIEF PAUSE) 14 15 MS. LOIS MORRISON: Specifically for 16 the residential sector, yes. We -- as I mentioned we 17 have general education campaigns and such that would 18 also target the residential sector that are -- those --19 those costs are captured as part of the -- the support 20 activities. 21 MR. BOB PETERS: Where would I find 22 that general advertisement on this sheet? Which line 23 item, by way of example, Ms. Morrison, would capture 24 those educational activities? 25 MS. LOIS MORRISON: It's called

2820 "incremental support activity," and if you go to -- I think it's -- let's see, 1, 2, 3, 4, 5 --3 MR. BOB PETERS: I've got it. MS. LOIS MORRISON: You've got it? 5 MR. BOB PETERS: Yeah. But also under "residential customers" you have the customer service initiatives, and you list three (3) of them here: Power 7 Smart Residential Loan Program, ecoENERGY, and Residential Earth Power Program. Those initiatives, I 10 take it, are not ones that are -- that carry an 11 incentive for Manitoba Hydro? 12 MS. LOIS MORRISON: No, they do not 13 carry an incentive. They are other -- the -- two (2) of the items mentioned there are the -- are other 15 financial tools that are offered to assist customers in 16 installing energy efficiency measures. 17 MR. BOB PETERS: And Manitoba Hydro, if 18 they assist in the installation of it they try to do it 19 on a revenue neutral or a cost recovery basis? 20 MS. LOIS MORRISON: They -- the -- of 21 those two (2) items, yes. 22 MR. BOB PETERS: And the ecoENERGY, was 23 that a Federal Government program, or is Manitoba Hydro

MS. LOIS MORRISON: Manitoba Hydro was

involved in that as well?

24

- 1 a delivery agent for the ecoENERGY Program in Manitoba.
- 2 And we used it to try and -- and help customers access
- 3 as many of the dollars available as possible, to help
- 4 them improve the energy efficiency of their home, so we
- 5 would cross-sell programs at the time.

- 7 So if we're in the house, or an auditor
- 8 is in the house and talking about the ecoENERGY
- 9 Program, we want them to talk about going to the Power
- 10 Smart level for the insulation component. That wasn't
- 11 a requirement under the ecoENERGY Program, but it was a
- 12 requirement for our program; that we want them to
- 13 maximize the economic insulation level. We would also
- 14 then provide them with information about other programs
- 15 that we had running at the time.
- 16 MR. BOB PETERS: It appears that the
- 17 commercial activity is -- 38 percent of the monies
- 18 going to be spent will be on commercial DSM programs?
- 19 MS. LOIS MORRISON: That is correct.
- 20 MR. BOB PETERS: And 19 percent on the
- 21 industrial, correct?
- MS. LOIS MORRISON: That is correct.
- 23 MR. BOB PETERS: But once we get past
- 24 that, Ms. Morrison, past the conservation subtotal, we
- 25 get into things like load management and some other

2822 Why are those also listed here as -- as DSM programs? 3 (BRIEF PAUSE) 5 6 MS. LOIS MORRISON: Because we include them as part of our overall demand-side management initiative. 9 MR. BOB PETERS: All right. So the 10 Board was familiar before -- before you came today 11 that, under the Curtailable Rates Program, the Corporation is spending approximately \$6 million a year 13 on their program, and -- and that number has been carried forward here I see under load management 14 15 Curtailable Rates Program. 16 MS. LOIS MORRISON: That's correct. 17 MR. BOB PETERS: Is it administered by 18 -- by our staff, or is it administered by -- by others 19 in the Corporation? 20 21 (BRIEF PAUSE) 22 23 MS. LOIS MORRISON: The program is 24 essentially del -- administered by staff within Mr. 25 Weins area; however, it is delivered to the customer

- 1 through people within the customer care and mark --
- 2 marketing business unit. So the staff that I referred
- 3 to who deal with the major and key account customers
- 4 are delivering that program to those customers.
- 5 THE CHAIRPERSON: But that's hardly an
- 6 energy con -- conservation program, is it? I mean, I
- 7 guess I'm -- I'm -- we're going back to the definition
- 8 of this sid -- demand-side management. It's not an
- 9 energy conservation program?
- 10 MR. ROBIN WEINS: No, the curtailable-
- 11 type rate program tends not to be an energy
- 12 conservation program, but it is a load-shifting program
- 13 and it is a capacity conservation program. So it -- it
- 14 assists Manitoba Hydro in conserving and with respect
- 15 to the costs of providing electrical services.

- 17 CONTINUED BY MR. BOB PETERS:
- 18 MR. BOB PETERS: There's no
- 19 conservation for the customer though, Mr. Weins?
- 20 MR. ROBIN WEINS: I'm not sure what
- 21 you mean by that.
- 22 MR. BOB PETERS: As -- as we heard from
- 23 the curtailable rate side of the business, this is a
- 24 customer agreeing that their rate can be curtailed,
- 25 provided Manitoba Hydro pays them for that privilege?

2824 MR. ROBIN WEINS: Well, that -- that is 1 correct. It's a -- it's an economic value proposition for the customer, and it's an economic value 3 proposition for Manitoba Hydro. So we -- we undertake And it -- as I say, it conserves capaci -- at the very least, it conserves capacity, and it may result in shifting some loads from high-cost periods to low-cost 7 periods. So it changes the character or the cost of the energy that's being supplied to the customer as 10 well. 11 MR. BOB PETERS: Can you explain the 12 customer self-generation item listed here, the 13 Bioenergy Optimization Program, and the -- the money 14 that's planned to be expended for that? 15 16 (BRIEF PAUSE) 17 18 MS. LOIS MORRISON: This is one (1) of 19 the initiatives that is outside of my area of 20 responsibility. However, as we understand it, the 21 purpose of this program is to encourage customers to 22 locate customer site generation to offset their pers --23 their own unique needs within -- their own electricity 24 needs on -- at their location through the use of bioenergy, waste heat, and such. So basically, what

- 1 we're seeing is a reduction in their energy
- 2 consumption, energy use, through the use of available
- 3 waste product or waste heat.
- 4 MR. BOB PETERS: And Manitoba Hydro
- 5 plans to expend as much money on that program as it
- 6 does on their entire residential incentive-based
- 7 program over the planning horizon that's before us on
- 8 page 317?
- 9 MS. LOIS MORRISON: That is correct.
- MR. BOB PETERS: And so that program,
- 11 again, is for a customer to generate their own
- 12 electricity so they don't have to purchase from
- 13 Manitoba Hydro, which means Manitoba Hydro has saved
- 14 capacity as well as energy?
- 15 MS. LOIS MORRISON: That is correct.
- 16 Most of our initiatives, whether they be for the
- 17 residential, commercial, or industrial sector, have a
- 18 capacity savings component to them.
- 19 MR. BOB PETERS: Under the Bioenergy
- 20 Optimization Program, will the customer be able to sell
- 21 their energy to Manitoba Hydro?
- MS. LOIS MORRISON: Under the current
- 23 design, it's to offset their -- their site-specific
- 24 needs.
- MR. BOB PETERS: They can't turn the

- 1 meter backwards?
- MS. LOIS MORRISON: No, we do have
- 3 another initiative -- we do have a net metering program
- 4 though. I can't comment on it specifically, but there
- 5 is the option for customers who wish to create their
- 6 own on-site generation and sell it back to the grid.
- 7 MR. BOB PETERS: Is that happening, do
- 8 you know, in the -- at all in Manitoba?
- 9 MS. LOIS MORRISON: Yes, there are --
- 10 there are some customers that have -- that are
- 11 participating in net metering.
- 12 MR. RAYMOND LAFOND: What type of
- 13 customer would that be?
- 14 MS. LOIS MORRISON: I honestly would
- 15 have to -- to take that -- to find that out. I do know
- 16 that I occasionally get the applications for the ones
- 17 that are less than 10 kilowatts.

- 19 CONTINUED BY MR. BOB PETERS:
- 20 MR. BOB PETERS: I'm -- I think the
- 21 Board has heard about wind generators have a power
- 22 purchase agreement with Manitoba Hydro. And the Board
- 23 has heard that Wuskwatim Power Limited Partnership has
- 24 a power purchase agreement with Manitoba Hydro.
- 25 But you're telling the Board that there

2827 are other customers that have agreements to sell their own generation back to Manitoba Hydro? 3 (BRIEF PAUSE) 5 6 MS. LOIS MORRISON: We do have a -- a non-utility generation policy. And that is what the 7 net metering is, where we will sell -- a customer can enter into this agreement and sell it back to -- sell 10 it back to -- sell generation back to the grid. 11 MR. BOB PETERS: Just maybe if an undertaking could be taken to identify the number of 13 customers that participate under the NUG program and 14 the amount of energy sold back to Manitoba Hydro. 15 Is that something that the Corporation could advise the Board on, and maybe pick the last 17 fiscal year for quantification purposes? 18 MS. LOIS MORRISON: Yes, we'll 19 undertake to do that for the last fiscal year. 20 MR. BOB PETERS: Thank you. I'm just -21 - as the microphone is on Ms. Morrison, you mentioned 22 non-utility generation. 23 Is that the same as an independent power producer, to your way of thinking, or can you comment 25 on that?

- 1 MS. LOIS MORRISON: It is, but on a
- 2 much smaller scale, and it's generally -- this is more
- 3 of a -- the -- the non-utility generation policy was in
- 4 place prior to us entering into a number of the
- 5 independent power producer agreements. So this is more
- 6 of a carryover than it is -- then -- it's not a new
- 7 initiative. It's been in place for a number of years
- 8 and it's mu -- usually on a much smaller scale. It's
- 9 customer specific, so.
- 10 MR. BOB PETERS: Any examples pop to
- 11 mind -- and I don't want to put on the public record
- 12 any identifiable customers. But are these -- are these
- 13 farmers? Are these mining companies? Are these gravel
- 14 quarries? Or...
- 15 MS. LOIS MORRISON: I -- I honestly
- 16 don't know.
- MR. BOB PETERS: Okay.
- MS. LOIS MORRISON: I would have to get
- 19 that for you.
- 20 MR. BOB PETERS: All right. Well, that
- 21 will be part of the undertaking, to just identify the
- 22 number of them and if you can provide some description
- 23 without identifying who they are, that would be
- 24 appreciated.
- 25 MS. LOIS MORRISON: We will undertake

2829 to do so. 2 MR. BOB PETERS: Okay. Thank you. 3 --- UNDERTAKING NO. 59: Manitoba Hydro to indicate the number of customers in 5 6 the NUG program, including 7 description of customers, without any identifying 9 information 10 11 MR. RAYMOND LAFOND: Can I intervene? The DSM program is dedicating 19 percent, essentially, 13 of its funds to industrial users? If I heard correctly 14 this morning from the MIPUG representative was that his 15 clients did not use this program. 16 Can you explain to me the difference between these two (2) comments? 17 18 MS. LOIS MORRISON: MIPUG represents 19 the large industrial power users group. The industrial programs here would reflect all industrial customers, 21 not just the very large ones. However, I will say that 22 we work very closely with the -- all industrial 23 customers, including the large top consumers. And 24 although they may not participate in the incentive portions of what we offer, we provide technical

- 1 expertise and feasability studies. We part fund
- 2 feasability studies that help those customers identify
- 3 energy efficiency opportunities.
- 4 Case in point, recently we funded a
- 5 study with one that identified energy efficiency
- 6 opportunities that would have payback of less than half
- 7 a year. Well, in that case, the customer is going to
- 8 undertake it without us pro -- needing to provide any
- 9 incentives to do so. But because we participated in
- 10 that -- that activity with them and part funded the
- 11 study, we're -- we are working very closely with his
- 12 customers.
- MR. RAYMOND LAFOND: Thank you.

- 15 CONTINUED BY MR. BOB PETERS
- 16 MR. BOB PETERS: Mr. Weins, I'm still
- 17 caught up on this N-U-G, or the NUG, concept. Do you
- 18 set a rate at which you purchase the power back from
- 19 them? Is that something your department does?
- 20 MR. ROBIN WEINS: You're really going
- 21 to test my memory on this, Mr. Peters, because I
- 22 haven't been involved in this type of situation for
- 23 many, many years. At a very small scale, what happens
- 24 is that the -- basically, in those periods where a
- 25 customer may be selling back into the grid, that

- 1 they're basically selling back at whatever the
- 2 appropriate runoff energy rate is.
- 3 So it's -- it's not a specific sep --
- 4 separate rate. If it happens to be at -- and I don't
- 5 know if there still are, but there used to be one (1)
- 6 or two (2) residential farm customers. And they would
- 7 receive the residential runoff rate for the energy that
- 8 came back into the grid.
- 9 When you get into larger applications --
- 10 and again, I'm not -- I'm not involved in this at all -
- 11 it may be appropriate to use the same approach, or
- 12 Manitoba Hydro may negotiate a separate arrangement
- 13 with them
- 14 MR. BOB PETERS: All right. Fair
- 15 enough. Would there be a policy, you expect, Mr.
- 16 Weins, related to the non-utility generation or
- 17 independent power production?
- 18 MS. LOIS MORRISON: Yes, we do have a
- 19 non -- a non-utility generation policy.
- 20 MR. BOB PETERS: Would you please
- 21 undertake to file that with the Board at a convenient
- 22 opportunity?
- MS. LOIS MORRISON: Yes.
- 24 MR. BOB PETERS: All right. Thank you.

2832 --- UNDERTAKING NO. 60: Manitoba Hydro to file its 2 non-utility generation 3 policy CONTINUED BY MR. BOB PETERS: 6 MR. BOB PETERS: Mr. Weins, maybe just for clarity on the record, in terms of quantifying the 7 runoff rate that -- that may have been available to a couple of those relics of a distant memory that you 10 had, what -- what is the runoff rate that you're 11 referring to? 12 MR. ROBIN WEINS: It would -- well, 13 today, if it were a residential customer, it would be 14 the energy rate that the residential customer pays. 15 MR. BOB PETERS: The proposed seven point two-zero (7.20) cents. 16 17 MR. ROBIN WEINS: Right. If it were a 18 general service customer, a small general service 19 customer, it would be typically the second block rate. 20 MR. BOB PETERS: All right, thank you, 21 sir. Ms. Morrison, if we can conclude on page 317, the 22 only other aspects that -- that you show here are the 23 amounts at the bottom, where the utility costs since 24 1989 have -- have been cumula -- accumulated. 25 Is that when the program was first

- 1 introduced, when -- when Power Smart first was enacted?
- MS. LOIS MORRISON: 1989 is the year we
- 3 launched our very first energy efficiency program.
- 4 Power Smart itself wasn't brought in until 1991.
- 5 MR. BOB PETERS: And what was Power
- 6 Smart before it was Power Smart?
- 7 MS. LOIS MORRISON: It was just the
- 8 Manitoba Hydro program. As I mentioned, Power Smart is
- 9 how we brand it, and it's -- it's a very effective
- 10 marketing tool.
- 11 MR. RAYMOND LAFOND: Before we leave
- 12 page 317, I think we're -- which we're about to do,
- 13 you've indicated that the total cost spent to date on
- 14 DSM are in the order of two hundred and seventy-five
- 15 thousand dollars (\$275,000).
- 16 And if I heard correctly earlier, this
- 17 program does not defer new generation. However, the
- 18 savings could be used -- can -- are being used for
- 19 export purposes. And when you started, you told us
- 20 what the savings were in terms of generation. And if I
- 21 look at last year's total export in your annual report,
- 22 assuming -- and -- and the generation being produced
- 23 that was used for exports, it seems to me it comes out
- 24 about -- to about two point six (2.6) cents per
- 25 kilowatt.

2834 1 So when you do the -- you've got the costs, but what are the offsetting revenues from these savings used for exports? 3 4 5 (BRIEF PAUSE) 6 7 MS. LOIS MORRISON: I'm -- I'm going to attempt. Prior to 2000 -- ninetee -- prior to 2000, when we were investing in demand-side management, it was for the purposes of deferring investment in 10 generation, transmission, and distribution. It was in 11 12 2000 that we were no longer in a position where we were 13 seeking to defer generation, and there was the shift to 14 valuing it based on -- on what was available within the 15 export market. 16 So I'm a little unsure as to how to 17 respond to your inquiry as to the value associated with 18 What -- each year, when we look at what we're 19 doing going forward, we're looking at what those values are -- what the value of those energy savings are going 21 forward. And it's compared to what that levelized 22 marginal value is at that time. 23 So it's not directly tied to the export 24 value that you see today, that past investment. Those past investment dollars were done so to achieve a

- 1 different -- to -- to achieve an objective that was set
- 2 out at that time based on a value for that kilowatt
- 3 hour at that time. Does that make sense to you --
- 4 MR. RAYMOND LAFOND: Yes --
- 5 MS. LOIS MORRISON: -- or --
- 6 MR. RAYMOND LAFOND: -- I hear you.
- 7 However, could you give me the -- the -- you've
- 8 indicated earlier the savings last year, in terms of
- 9 electricity use by customers who are in the program?
- 10 If you multiply this by the average
- 11 export rate last year, what -- what would the -- the
- 12 amount be compared to the costs incurred for the Power
- 13 Smart Program?
- 14 MS. LOIS MORRISON: We could do the
- 15 math. We're struggling with how -- it -- it's not how
- 16 we value the investment. So I guess we're wanting to
- 17 make sure --
- 18 MR. RAYMOND LAFOND: I hear you.
- 19 MS. LOIS MORRISON: -- that we -- we
- 20 provide you with what will assist you.
- 21 THE CHAIRPERSON: I'm sorry. Excuse
- 22 me. I guess I'm -- like panel member Lafond, I'm
- 23 trying to understand the decision-making around whether
- 24 you adopt a new program. And I think this is where
- 25 Raymond was partly going to, because, you know, I think

- 1 your intro -- your introductory comments referred to
- 2 seeking opportunities that are economic.
- 3 So maybe we could explore that, and
- 4 maybe that'll help us to understand where Raymond was -
- 5 was going here -- Board member Lafond is going.

- 7 CONTINUED BY MR. BOB PETERS:
- 8 MR. BOB PETERS: And I'll -- I'll
- 9 assist, if I can, along the way, Ms. Morrison, so
- 10 please jump in where you want. But -- but let's just
- 11 start to answer the question. And your colleagues on
- 12 the panel, certainly Mr. Rainkie, will have a copy of
- 13 Board counsel's book of document, Volume II. And he --
- 14 he doesn't? And -- and, you know what, Mr. Miles
- 15 certainly will have it, because it contains a copy of
- 16 the -- of the power resource plan on page 243, an
- 17 extract of the recommended plan -- of the power
- 18 resource plan. And I want to -- I want to go to the
- 19 point that Board member Lafond and the Chairman were --
- 20 were dealing with.
- So, Mr. Miles, you've been patient all
- 22 afternoon. And if you -- if you could have a quick
- 23 peek at page 243, found at Tab 22 of Board counsel's
- 24 book of documents, you will see a schedule from the
- 25 power resource plan with which you're familiar.

PUB - MANITOBA HYDDRO GRA 01-09-2013 2837 Would that be correct? 1 2 MR. TERRY MILES: That's correct. 3 MR. BOB PETERS: And this page that's before you is -- is on the recommended plan that Manitoba Hydro has, and it's before the Board? 6 MR. TERRY MILES: That's correct. 7 MR. BOB PETERS: And on the recommended plan, you're listing the dependable resources that Manitoba has on its system, correct? 10 MR. TERRY MILES: That's correct. 11 MR. BOB PETERS: One (1) of the dependable resources listed is demand-side management 13 energy. And in the test year, there's two hundred and ninety-three (293) and 411 gigawatt hours in each of 14 15 the two (2) test years? MR. TERRY MILES: That's correct. I 16 17 see that, yeah. 18 MR. BOB PETERS: Now, what I didn't put 19 in the book of documents and perhaps should have, I've now gone to Manitoba Hydro's Exhibit 11, Mr. Miles. 21 And this is your most recent power resource plan. And 22 I've turned over to page 32 of it. And this has 23 defined the capacity under the recommended plan.

Again, I'm on, now, Manitoba Hydro's Exhibit 11, page

32. And I'm looking at the demand-side management

24

- 1 capacity that is recorded.
- 2 And there's 168 megawatts of capacity
- 3 listed for demand-side management, correct?
- 4 MR. TERRY MILES: I -- I see that.
- 5 It's out in the 2030 time frame, I think. Or the table
- 6 I'm looking at, page 32, is that -- do you want to do
- 7 that or do you want to go to the...?
- 8 MR. BOB PETERS: Thank you for being
- 9 polite. Let's turn back to 2012 and 2013, and we see
- 10 that there's 12 megawatts and 35 megawatts of -- of
- 11 capacity that's attributed to demand-side management,
- 12 correct?
- 13 MR. TERRY MILES: That's correct.
- 14 MR. BOB PETERS: So we'll come to the
- 15 specific programs and the savings. But by looking at
- 16 this, does the Board conclude that, at least for winter
- 17 peak demand purposes, DSM saves the Corporation the
- 18 equivalent of 35 megawatts?
- 19 MR. TERRY MILES: Under the current
- 20 plan, yeah. This would be the incremental --
- 21 incremental saving in that year, yes.
- MR. BOB PETERS: So the incremental
- 23 saving, but it's the total saving attributed to DSM.
- 24 It's not -- it's -- it is what it is.
- 25 It's measured as the DSM capacity

2839 contribution in the test years? 2 MR. TERRY MILES: Yeah, that -- that would be correct, yeah. I think -- I think what I'm 3 thinking is up to this point there has been some DSM savings. These are the continued savings that go on beyond... 7 (BRIEF PAUSE) 9 10 MR. TERRY MILES: No, that's correct. 11 I'm -- Ms. Morrison is just helping me clarify that; 12 but, yes. 13 MR. BOB PETERS: All right. So what --14 would one (1) of the responses to the Board be that for 15 all of the monies expended in the test year, Manitoba 16 Hydro believes that the winter peak demand resource 17 from DSM would be 12 megawatts in the first test year 18 and 35 megawatts in the second test year? 19 MS. LOIS MORRISON: Yes, but the monies that are expected to be spent in 2013 -- '12/'13, as 21 identified, those dollars are expected to achieve --22 for the energy conservation components, not including 23 curtailable rates, are anticipated to -- to achieve 24 those savings. 25 MR. BOB PETERS: That's the 12

2840 megawatts of --2 MS. LOIS MORRISON: Yes. 3 MR. BOB PETERS: -- capacity savings? MS. LOIS MORRISON: Yes. 5 MR. BOB PETERS: And so Manitoba Hydro adds that -- has that 12 megawatts of capacity 7 available to it to meet its winter system peak? 8 MS. LOIS MORRISON: 9 MR. BOB PETERS: All right. Now, let's 10 -- let's maybe drill down a little deeper to that by getting back to -- let's get back to --11 12 MS. LOIS MORRISON: Sorry, Mr. Peters, 13 I should clar -- sorry, clarify that that 12 megawatts 14 continues on into the future based upon the life of the 15 measures being installed. It's not just that one (1) 16 fiscal -- that one (1) year. 17 Well, I wondered about MR. BOB PETERS: 18 that. But, Ms. Morrison, if we look on this chart, and 19 we'll -- we'll suggest that Mr. Miles had something to do with its creation, and we look at the existing 21 Manitoba Hydro plants, they're shown at 4,900 megawatts 22 in the test year, but -- and then each and every year 23 it's restated as to what they contribute to the peak 24 demand. 25 So there's -- there's no accumulation.

2841 It's a -- an annual amount that's attributed to that particular asset? MS. LOIS MORRISON: Right, but DSM is 3 built differently than a dam. When you build a dam and you flip the switch, it now starts generating kilowatt With DMS, we're gradually building it up with each -- each year. And so when -- when you're looking at the 12 megawatts in 2012/'13, in the next year we're going to spend a little bit more money and get another so many customers to participate, which generates --10 11 which will create more savings. Okay? 12 So it's -- that 12 gigawatt -- that 12 13 megawatts will continue on as long as tho -- that 14 technology has been in place. So say it's commercial 15 lighting; it has a twenty (20) year life. So the 16 savings associated with that commercial lighting 17 upgrade will be twenty (20) years, and that will 18 continue on. And so the value of those savings is for 19 twenty (20) years. 20 21 (BRIEF PAUSE) 22 23 MR. BOB PETERS: But, Ms. Morrison --24 okay. You did say, in your direct evidence to Ms.

25 Fernandes, that -- that -- I think you said 583

- 1 megawatts have been -- have been saved for the system
- 2 to date?
- 3 MS. LOIS MORRISON: But they will be
- 4 accounted for within our load forecast, because our
- 5 load forecast -- our electric load forecast takes the
- 6 energy consumption as of today. And so the energy
- 7 consumption that you're -- like the actual energy
- 8 consumption is our starting point. So if we're doing
- 9 our forecast for 2011, you'll take the energy use for -
- 10 we'll go to 2012.
- 11 So we're doing our ener -- our li -- our
- 12 load forecast for 2012 forward. You'll take the
- 13 average -- the actual energy consumption for 2011/'12
- 14 as your base starting point. That base starting point
- 15 is assumed to have -- all the energy efficiency
- 16 improvements that we've saved to date is already
- 17 captured within that, because you're using actual
- 18 energy consumption.
- 19 So when Mr. Miles is doing his forecast,
- 20 he's look -- he's taking the electric forecast for 2012
- 21 and looking forward to meet -- to meet that energy
- 22 requirement and any future growth requirement.
- 23 So that's why, when we give them the DSM
- 24 plan, we -- we put it on the same level as this year
- 25 going forward, what -- what new energy savings are

2843 going to be coming, so it can compet -- can be compared to the load forecast and the other energy requirements 3 they have available in place. 4 MR. BOB PETERS: Mr. Miles, is that -is that 12 megawatts of DSM savings, that incremental amount that Ms. Morrison is now telling us about, is 7 that dispatchable by Manitoba Hydro? 8 9 (BRIEF PAUSE) 10 11 MR. TERRY MILES: No. I would think from "dispatchable" meaning that we could turn it off 12 13 when we have the need to turn it off and on. 14 perspective, it's not dispatchable. But I think it's a 15 -- a DSM is off -- it's embedded, in essence, in the 16 reduce in -- reduction in load. 17 MR. BOB PETERS: And that's how 18 Manitoba Hydro accounts for it, is on their load 19 forecast as opposed to a dispatchable resource? 20 MR. TERRY MILES: No, I think for the -21 - I think what Ms. Morrison was talking about -- for 22 the DSM savings that we incurred to date, those are -those are factored into the load forecast that we have. 24 These additional savings are not in the load forecast. 25 They're actually resources that reduce our future

- 1 requirements they need to serve.
- MR. BOB PETERS: So, Ms. Morrison,
- 3 you're suggesting to the Board that the 35 megawatt
- 4 hours forecast from DSM -- the 35 megawatts forecast
- 5 from DSM in 2013/'14 does not include the 12 megawatts
- 6 in the prior test year?
- 7 MS. LOIS MORRISON: No, it would
- 8 include the 12 megawatts from the prior test year, but
- 9 it would not include any savings achieved prior to the
- 10 2011 year.
- MR. BOB PETERS: Okay, I'm sorry, the
- 12 light's going on. Maybe it's a little dark on this
- 13 side of the room. But all you're saying is that the
- 14 way this is presented is you've started afresh with the
- 15 2012, 23rd (phonetic) presentation?
- MS. LOIS MORRISON: Yes.
- MR. BOB PETERS: Okay.
- 18 THE CHAIRPERSON: From that -- from the
- 19 accounting standpoint, the savings that you've realized
- $20\,$  in prior years would impact the base load forecast,
- 21 right?
- I mean, it would impact the base load
- 23 forecast demand side; it would reduce that?
- 24 MS. LOIS MORRISON: They've already
- 25 deemed to -- to have reduced it --

2845 1 THE CHAIRPERSON: Right, okay. 2 MS. LOIS MORRISON: -- because when you look at our -- our electric load forecast, as I said, 3 takes it from the actual energy consumption, weather normalized in -- in the -- the most recent year. And then we forecast forward from it. 7 THE CHAIRPERSON: Right, I appreciate that. But what I'm trying to understand is that those numbers have not disappeared. They -- they would have the impact of reducing the demand side? 10 MS. LOIS MORRISON: Yeah. 11 12 THE CHAIRPERSON: Right? 13 MS. LOIS MORRISON: Yeah. If we hadn't 14 done what we've done already --15 THE CHAIRPERSON: Yeah. 16 MS. LOIS MORRISON: -- we would have had to build more. 17 18 19 CONTINUED BY MR. BOB PETERS 20 MR. BOB PETERS: And getting back to 21 that page 243 in Board counsel's book of documents, 22 there the -- the energy is referred to as dependable 23 energy, Mr. Miles? 24 MR. TERRY MILES: That's correct. 25 MR. BOB PETERS: Which means that

- 1 Manitoba Hydro can include that in its dependable
- 2 resources, including their long firm -- long-term
- 3 exports?
- 4 MR. TERRY MILES: That's correct.
- 5 MR. BOB PETERS: And in terms of the
- 6 amount -- in terms of the presentation here, again, it
- 7 becomes cumulative, starting with the 2011/'12 year?
- MR. TERRY MILES: Yes.
- 9 MR. BOB PETERS: Ms. Morrison, let's go
- 10 to page 318 en route to -- to where I want to go to
- 11 talk about the savings that we're talking about. What
- 12 we have on page 318 of Board counsel's book of
- 13 documents is a response by Manitoba Hydro to
- 14 Information Request 107(e).
- 15 And Manitoba Hydro has graphed the
- 16 planned incremental DSM savings out to the planning
- 17 horizon of their program, correct?
- 18 MS. LOIS MORRISON: That is correct.
- 19 MR. BOB PETERS: Very clearly, the trend
- 20 is downwards, in terms of savings?
- MS. LOIS MORRISON: Yes.
- MR. BOB PETERS: And again, the reason
- 23 for that, from what I recall you saying earlier, is
- 24 that there aren't as many economic opportunities in
- 25 which to invest for DSM measures?

2847 MS. LOIS MORRISON: That is correct. 1 2 MR. BOB PETERS: Put -- and again, put only in my words, but all of the -- the economic fruit 3 has been picked? 5 MS. LOIS MORRISON: Except for what we've identified here in the graph. 7 MR. BOB PETERS: Right, and it's diminishing because the most cost effective has already been captured. And the remaining ones are, while cost 10 effective, may not be quite as cost effective of what's 11 gone before. 12 MS. LOIS MORRISON: Yes. Under current 13 marketing conditions, this is what we see as being 14 what's economic, going forward. 15 MR. BOB PETERS: And so specifically, if we turn to page 319 and look at the savings that you 17 and Board member Lafond were talking about by way of 18 programs, this is an energy savings chart that will add 19 up all of the energy saved from the various programs that Manitoba Hydro is -- is undertaking, correct? 21 MS. LOIS MORRISON: That is correct. 22 MR. BOB PETERS: And some of this 23 savings may or may not be dependable energy, but it's -24 - it's energy saved, in any event?

2848 1 (BRIEF PAUSE) 2 3 MS. LOIS MORRISON: Under -- yes. MR. BOB PETERS: Specifically, if we look at a couple of the programs, this table should tell the Board where the specific -- what the specific savings were for the various expenditures reviewed on 7 the previous -- on -- on the previous charts? 9 MS. LOIS MORRISON: That is correct. 10 MR. BOB PETERS: The New Home Program, although it shows energy savings at this point in time, 11 12 those forecast savings will not have been realized and 13 won't be realized until the program gets redesigned and 14 introduced? 15 MS. LOIS MORRISON: That is correct. 16 MR. BOB PETERS: The Home Insulation 17 Program, or your -- I'm not sure if that was the 18 flagship program, but it was the one for the residential customers. 19 20 It's -- it carries on with savings 21 planned out into the future? 22 MS. LOIS MORRISON: That is correct. 23 MR. BOB PETERS: And that's because 24 Manitoba Hydro is accessing more homes; I think you 25 said ten thousand (10,000) to date. But there --

2849 1 MS. LOIS MORRISON: There's still more 2 left. 3 MR. BOB PETERS: -- there's lots more left? 5 MS. LOIS MORRISON: There are -- yes, 6 there's still quite a few left. 7 MR. BOB PETERS: Well, we'll come to that. We'll -- we'll come to a number and you can tell me what that number is later. 10 The -- the low end -- the Lower-income 11 Energy Efficiency Program, that's the -- those are the 12 funds that we've talked about before, in terms of how 13 Manitoba Hydro's planning to expend them over the --14 over the planning horizon? 15 MS. LOIS MORRISON: There are some 16 funds supporting this initiative that are Power Smart dollars, and there are other funds that are coming from 17 18 the Affordable Energy Fund program. As I mentioned, 19 the Affordable Energy Fund program was set up to help us enhance what we offer on the Power Smart side. 21 So this is -- there's some dollars 22 that'll come from our -- for example, if -- if -- the 23 way it's set up is if we have a home that's being 24 insulated, it's in a low-income household, what would normally be spay -- paid for by the Power Smart

2850 incentive is -- is put into that account. And then what's left over is covered by the Affordable Energy Fund. 3 4 So -- so there's -- that's why we -it's -- it's set up to support what's missed. 6 7 (BRIEF PAUSE) 9 MR. BOB PETERS: I don't recall the --10 the fridge recycling program carrying through for the whole planning horizon, but it appears that the savings 11 12 are envisioned to go on. 13 Is that -- is that simply from -- those 14 savings are from the fridges that will be captured by 15 the time the funds stop, or do you expect the program will continue without Manitoba Hydro having to send 17 somebody to fetch the fridge and the freezer? 18 MS. LOIS MORRISON: Well, what -- what 19 you'll notice is that the savings increase and then begin to decrease. The savings are tied to the life. 21 So we've anticipated a remaining life of the fridge in 22 our -- in our program design. And so those savings are 23 antici -- we're basically advancing -- basically 24 advancing the retirement of that fridge. 25 So -- so there's -- there's a number of

- 1 fridges picked up; they have a use, they have a life,
- 2 and those savings go on for so long, and then they star
- 3 -- the savings will start to diminish because they
- 4 would have come off the system anyway. I mean, that's
- 5 a better way to describe it.
- 6 MR. BOB PETERS: So these energy
- 7 savings are -- are not metered savings that the
- 8 Corporation can -- can measure with -- with certainty?
- 9 MS. LOIS MORRISON: Some of our savings
- 10 is -- are identified through engineering estimates. We
- 11 do have some initiatives that we actually do pre-
- 12 imposed metering on; those would be the larger
- 13 industrial projects.
- 14 MR. BOB PETERS: Let's stay with the
- 15 residential customers. Those would be as a result of
- 16 engineering estimates?
- MS. LOIS MORRISON: Yes.
- 18 MR. BOB PETERS: And so for the Water &
- 19 Energy Saver Program, for example, if somebody goes to
- 20 the website as you mentioned earlier and -- and orders
- 21 up one (1) of these kits, Manitoba Hydro is going to
- 22 assume that it gets installed?
- 23 MS. LOIS MORRISON: No, we do follow-up
- 24 surveys to identify to what extent the measures
- 25 included in the kit were installed, whether they were

2852 actually installed or sat in the cup -- in the cupboard waiting to be installed. 3 So we actually ask them -- customers to identify for us, you know, if they've got two (2) showerheads? Did they install both of the showerheads? Did they install both faucet aerators? Did they install the pipe wrap? And then we use that follow-up 7 data to augment our -- our forecast and our -- our evaluation of actual activity. 10 MR. BOB PETERS: But do those follow-up 11 forecasts happen for each and every customer, or are 12 they just used as a sample for auditing purposes to 13 provide engineering estimates? 14 MS. LOIS MORRISON: It depends on the 15 program. For the Water & Energy Saver Program, let 16 me... 17 18 (BRIEF PAUSE) 19 20 MS. LOIS MORRISON: The survey is 21 administered to everybody who participates, but as we 22 all know, not everybody responds to the survey. When 23 we put together the program and the design, we did anticipate that not everybody would install all 24 25 measures. So when we put together our economic

- 1 business case, we're putting together a forecast.
- When we first put the program forward,
- 3 we said: Okay, we expect, you know, 'X' percent of the
- 4 customers to actually put in the showerheads. Only so
- 5 many will put in the faucet aerators.
- 6 So that was all part of the original
- 7 business case going forward. And then we used the
- 8 survey data to confirm or to adjust our -- our
- 9 estimates going forward.
- 10 MR. BOB PETERS: Ms. Morrison, would it
- 11 be correct for the Board to conclude that, back on page
- 12 317, 7 percent of the cost of the DSM program was going
- 13 to residential incentive-based programs, and now
- 14 looking on page 319, 9 percent of the -- the savings
- 15 arise from those programs?
- 16 MS. LOIS MORRISON: That is correct.
- 17 MR. BOB PETERS: All right. So the
- 18 Board can go down the items and -- and do that
- 19 correlation as between the -- the costs and then the --
- 20 the savings that the Corporation predicts for each of
- 21 those -- for each of those customer groupings?
- MS. LOIS MORRISON: Although, I will
- 23 note that, as I mentioned, the -- the dollars included
- 24 in the Utility costs here for the Lower Income Energy
- 25 Efficiency Program do not include the -- the allocation

- 1 coming from the Affordable Energy Fund.
- MR. BOB PETERS: If anything, that
- 3 would inflate the costs from 7 percent to some higher
- 4 number?
- 5 MS. LOIS MORRISON: Yes.
- 6 MR. BOB PETERS: All right. Would it
- 7 inflate it to 9 percent, or do you have -- have you --
- 8 have you ever done that math?
- 9 MS. LOIS MORRISON: We haven't done
- 10 that math yet.
- 11 MR. BOB PETERS: And that's okay. I'm
- 12 -- I'm not asking that it be done. I -- I have your
- 13 point.
- 14
- 15 (BRIEF PAUSE)
- 16
- 17 MR. RAYMOND LAFOND: If I look at this
- 18 page 319, and the very last column where there's a
- 19 savings by the year 2025/'26 of about 1,000 gigawatt
- 20 hours per year.
- MS. LOIS MORRISON: Yes?
- MR. RAYMOND LAFOND: If export prices
- 23 were -- my estimate last year was two point six (2.6)
- 24 cents, but let's say three (3) cents, that would be a
- 25 savings of about thirty (30) -- or additional export

2855 revenue of about \$30 million a year. 2 Am I correct? 3 MS. LOIS MORRISON: In that one (1) year --5 MR. RAYMOND LAFOND: Yes. 6 MS. LOIS MORRISON: But what --7 MR. RAYMOND LAFOND: Yeah, yeah. Per year from then on? Well --9 MS. LOIS MORRISON: But -- well if --10 MR. RAYMOND LAFOND: -- that's not true 'cause some of this --11 12 MS. LOIS MORRISON: If -- if that was 13 the value, I don't think we would be investing in the 14 thousand. The -- the -- the thousand gigawatt hours 15 here is -- is based upon a levelized marginal value of eight point five (8.5) cents a kilowatt hour which 17 represents that export value, the deferral of 18 transmission and distribution benefits, and so -- and it's based on the life of those savings coming forward. So, at a basic math level, if export sales were valued 21 at three (3) cents in that year times a thousand 22 gigawatt hours --23 MR. RAYMOND LAFOND: That's 30 million, 24 right? 25 MS. LOIS MORRISON: Yeah, but...

- 1 MR. TERRY MILES: I think from the
- 2 value of the -- of the product, we -- we -- when it
- 3 comes down to the DSM program, any savings that are
- 4 under there, we consider them as firm -- firm energy,
- 5 if you will under this.
- So, the three (3) cents is an
- 7 opportunity energy value, so from a mathematical
- 8 perspective, yes. From an energy perspective though,
- 9 we extract more value out of that than that. They can
- 10 enter into long-term sales; it can support those types
- 11 of things. And that's -- that's how they're valued, in
- 12 terms of that. But your right, from the purely
- 13 mathematical perspective that is -- that's a number in
- 14 a particular year.
- But, the long -- we use a long-term
- 16 value to assess -- we use a long-term value of that
- 17 product to assess the -- really, the net benefit to
- 18 Manitoba Hydro.
- 19 MR. RAYMOND LAFOND: Oh, I understand
- 20 that in terms of how you estimate your future value.
- 21 But last years savings, if they had been a thousand
- 22 gigawatt hours at the last years average export price,
- 23 would have been about \$26 million or thereabouts. For
- 24 that particular year, not for the full life of the
- 25 program.

2857 1 2 (BRIEF PAUSE) 3 MR. TERRY MILES: I'm -- I'm not sure I share that perspective, but I'm not sure I have a strong enough answer to -- to come back at your with that. But I'd have to think about that. 7 MR. RAYMOND LAFOND: I guess, I'm trying to get to my esteemed Chairman's different way of posing the question. If this is done on an economic 10 11 feasability basis, you have your projection but then you look back and you say, Well, in that year, in 13 effect, we -- we did incur such and such a saving versus the previous year, et cetera. So you know where 14 15 you are with the program on a year-to-year basis. Which can be cumulative -- accumulated of course, but 16 17 you would know what your results are based, for 18 instance, on your -- I'm using average export prices, 19 because we've just been told that this was not to defer future new generation, so therefore, it's got to be 21 exports. 22 23 (BRIEF PAUSE) 24 25 MR. TERRY MILES: I think when Ms.

- 1 Morrison was saying that it wouldn't defer new
- 2 generation, I don't think -- the way that we calculate
- 3 marginal value -- that's there is -- there's a -- from
- 4 the generation perspective that's there, like the T&D
- 5 projects, like the transmission and distribution
- 6 marginal costs, there's an avoided cost methodology
- 7 where you defer -- or there's a value in deferring
- 8 expenditures going forward. And prior to 2000, we used
- 9 a similar methodology for the generation of -- of our
- 10 generation projects. After 2000, there was value in
- 11 actually advancing the projects, or in actually -- if
- 12 for DSM product, having a sale on an export market.
- So, the value wasn't in deferring
- 14 generation; there became a value in advancing
- 15 generation, or not deferring generation. At that point
- 16 then, you switch really the way that you value the --
- 17 the energy that's there and come up with your marginal
- 18 value.
- 19 So, instead of a marginal cost as such
- 20 that was really just deferring -- that you would defer
- 21 cost of generation, defer cost of transmission, defer
- 22 cost of gen -- distribution cost, now, we can defer --
- 23 there's value in deferring or cost associated, or value
- 24 in deferring of transmission distribution, but there's
- 25 a value to the generation, not deferring new

- 1 generation.
- 2 And these DSM values are what might
- 3 potentially -- they might potentially defer generation,
- 4 but in fact, there's a benefit in incurring them, not
- 5 for the purpose of deferring generation, but for the
- 6 purpose of -- of extracting additional value on the
- 7 export market.
- 8 So it's a difference in methodology, in
- 9 terms of how we determine the marginal value of that.
- 10 I don't know if that helps clarify your -- your comment
- 11 there. And when the DSM product becomes a firm -- it
- 12 is a firm product, it -- it comes down to painting
- 13 electrons as well in our system, where it becomes a
- 14 system resource.
- 15 And I think when we extract values from
- 16 all the resources in the system -- I think Mr. Cormie
- 17 was referring to that into -- into some of his previous
- 18 testimony, that look at any one (1) megawatt hour from
- 19 any resource that we have, whether it's DSM or whether
- 20 it's any of the generating stations that we have, and
- 21 saying that you only get that value for it, you only
- 22 get the opportunity value if you will, it becomes a
- 23 system resource and is valued as such in the system.
- 24 So I -- I think -- if I understand, you
- 25 were trying to come up with a metric as to how you

- 1 might measure the program on an annual basis and
- 2 savings. But I'm not sure that reflects the real value
- 3 that we get out of the DSM savings to the -- to the
- 4 Manitoba Hydro system.
- 5 THE CHAIRPERSON: So I guess the
- 6 follow-up question is: What value are you using if
- 7 you're not using the average opportunity revenues?
- 8 What value would you use to examine a
- 9 particular project before you initiate it?
- 10 MR. TERRY MILES: We provide the --
- 11 some -- we -- we calculate a marginal value for the
- 12 Company, and we've -- and we've submitted that. It's a
- 13 marginal value of the eight point five-two (8.52)
- 14 cents. That's the marginal value of -- of generation,
- 15 transmission, distribution. And depending on, I guess,
- 16 what components of the DSM program we -- we obtain
- 17 benefits for, the DSM program itself would evaluate its
- 18 projects or initiatives based on that marginal value
- 19 and would determine -- use that as -- in their economic
- 20 evaluation or in their test as a base to assess which
- 21 are economic, based on that value.
- That's how the program is established.
- 23 And Ms. Morrison can probably provide more details on -
- 24 on that, if there is any. But that's how we
- 25 determine, in essence, which projects are -- we -- we

PUB - MANITOBA HYDDRO GRA 01-09-2013 2861 proceed with. 2 MR. RAYMOND LAFOND: But in my opinion, if you use marginal value, you are using the assumption 3 that you are deferring new generations. 5 6 (BRIEF PAUSE) MR. RAYMOND LAFOND: That being said, it seems to me when you do analyze the feasibility of 10 the program from a Manitoba Hydro perspective, you would say, This is what we estimated, these are the 11 12 savings we have incurred. Assuming replacement value 13 of eight point two (8.2) or eight point five (8.5)14 cents, that means we would have had saved so many 15 dollars. If we use the average export price of last 16 year, well, we -- this is the savings. 17 So simply to put things in perspective 18 and not just have this one (1) number. It's like, you 19 know, when you do a budget, you have a worst-case scenario, a most likely, and a best case. It just puts 21 things in perspective, in terms of your program. 22 And to me, I'm not sure how you -- if 23 you put these values on, how do -- do you report on your actual results, in terms of savings, volume, and

in terms of dollars and making different assumptions?

24

2862 1 (BRIEF PAUSE) 2 3 MS. LOIS MORRISON: So in -- for programs that -- so for activity that's been undertaken, say, last year, what we will do is we will look at what our actual activity was. What did we actually save for that year compared to what we had 7 planned to save? And we will say -- and we will look at it compared to the marginal values and come up --10 and -- and basically, did we achieve target? 11 Did we meet our -- our energy target? 12 Did we meet our demand target? Did we -- for that 13 program in particular, did we -- did we spend less than 14 what we had planned? What's the economic analysis of 15 it -- as a result of it? How did we do, in terms of 16 the resource costs test? How did we do, in terms of 17 the utility cost test? 18 So we will compare against the same 19 metrics that we put forward for the plan. We will do that every year with each program as we -- as every 21 year we look at how we compared actuals to targets. 22 We don't go back ten (10) years and say, 23 How did we compare to today's values? Because when we 24 made the decision to invest in that program, we did it based on the information that was available at that 25

- 1 time and it made a good business case at that point.
- 2 But what we might do is if we're here in
- 3 year 5 of a program, because we look at our program
- 4 planning every year, the market characteristics may
- 5 have changed. Say marginal values have decreased. We
- 6 may decide, Well, maybe we should be readjusting our
- 7 program design to reflect those changes in the market
- 8 going forward.
- 9 MR. RAYMOND LAFOND: I'm not going to
- 10 belabour this forever. And -- I mean, it's not an
- 11 issue of whether or not you would drop the program or -
- 12 or enhance the program based on the financial
- 13 results. However, I think you would want to put that
- 14 in perspective and have an understanding of this.
- 15 If you -- for instance, if you're
- 16 amortizing a cost over ten (10) years, well, therefore
- 17 you would know what your cost of the program last year
- 18 was: one-tenth (1/10) of the last ten (10) years,
- 19 essentially.
- MS. LOIS MORRISON: Yep.
- 21 MR. RAYMOND LAFOND: And -- and having
- 22 the costs, knowing what your savings are, in terms of
- 23 volume, multiplying it by the -- the export rate or,
- 24 you know, using a different assumption. I mean, you'd
- 25 have different reports. I mean, if -- if you use such

- 1 and such a revenue base --
- MS. LOIS MORRISON: M-hm.
- 3 MR. RAYMOND LAFOND: -- this is your
- 4 revenue, and therefore this is what the program has
- 5 generated or has lost. So to me, you're not indicating
- 6 to me how the product or the program has done last year
- 7 and the previous year and the year before.
- MS. LOIS MORRISON: We don't look at as
- 9 -- as just the -- the benefit of -- if -- if the
- 10 program ha -- if the technology has a twenty (20) year
- 11 life, we look at it over the twenty (20) year life.
- I -- I believe what you're asking is:
- 13 Do we look at it in year 1? Did it achieve what it
- 14 said it was going to do based on the value that was
- 15 within that marginal cost stream in year 1 versus year
- 16 2? Like so almost like looking at what the revenues
- 17 would be each year by year from what we had
- 18 anticipated? So we look at year 1 revenue; did we
- 19 achieve the year 1 revenue?
- 20 MR. RAYMOND LAFOND: I -- I'm not
- 21 looking at every specific program within the DSM
- 22 program, but the --
- 23 MS. LOIS MORRISON: Just the --
- 24 MR. RAYMOND LAFOND: -- the total of
- 25 the program. Like you would know what your expenses

2865 are in the program --2 MS. LOIS MORRISON: M-hm. 3 MR. RAYMOND LAFOND: -- employees plus the amortization of all costs being capitalized. 5 MS. LOIS MORRISON: 6 MR. RAYMOND LAFOND: So if you know the 7 cost and you know the savings, you can evaluate the savings or the losses within the program. And that's what I was getting at, to show me the savings or the 10 losses of that particular program for Manitoba Hydro 11 over the last several years. 12 13 (BRIEF PAUSE) 14 15 MS. LOIS MORRISON: We haven't, in the past, looked at it from that perspective, no. 16 17 MR. BOB PETERS: Just -- oh, I'm sorry. 18 THE CHAIRPERSON: I did want to ask a 19 question. Looking at the -- the issue from the other side of the lens -- in other words, looking at it from 21 the perspective of a consumer -- when you decide, you 22 know, whether to invest a dollar (\$1), I guess what 23 you're suggesting to us is that you'll spend a dollar 24 (\$1) if you can get a dollar ten (\$1.10) back, basically, I think is what you're telling us. And I

- 1 understand that logic.
- 2 I -- I guess in respect of the
- 3 evaluation, do you examine what the consumer gets back
- 4 from the program? In other words, you know, I -- I may
- 5 -- I may save -- you know, I may save some money
- 6 because of your program.
- 7 But do you examine that from the -- from
- 8 the lens -- from looking at it from the consumer
- 9 perspective?
- 10 MS. LOIS MORRISON: Yes, it's part of
- 11 the analysis that we undertake when we're designing a
- 12 program and then when we're evaluating a program. We
- 13 look at it from a resource perspective regardless of
- 14 who's paying for it. Is it economic? We look at it
- 15 from the Utility perspective. What's the impact to the
- 16 ratepayer? But we also look at it from the customer's
- 17 perspective. What's the payback the customer's going
- 18 to realize by investing in that technology? How much
- 19 will their bill go down, essentially, is their payback.
- 20 So we do look at it from the customer's perspective.
- 21
- 22 CONTINUED BY MR. BOB PETERS:
- 23 MR. BOB PETERS: Ms. Morrison, I just
- 24 want to follow up on a couple of those areas. On page
- 25 321 of the book of documents is a -- a response that

- 1 you provided to our friends at Consumers' Association
- 2 of Canada and the Green Action Centre.
- When the Board looks at page 321, Ms.
- 4 Morrison, let's -- let's just pick the -- the '12/'13
- 5 as well as the '13/'14 test years that are before the
- 6 Board, and we look at the conservation programs only.
- 7 There appears a marked decline in the
- 8 savings that are going forward?
- 9 MS. LOIS MORRISON: I'll have to do my
- 10 math again, because when I did the math I did it for
- 11 2019/'20. But generally, what you have to look at,
- 12 when you're comparing plan to plan, you have to take
- 13 off the activity that would have been achieved to date.
- 14 So if you were going to be looking at,
- 15 say, the 2012/'13 test year, where we're saving a
- 16 hundred -- under the 2011 plan, we're saving 176
- 17 gigawatt hours, you'll have to -- and you want to, say,
- 18 compare it to the 2009 plan. You'll have to take the
- 19 four hundred (400) and -- sorry, 544 gigawatt hours of
- 20 energy savings under 2013 and remove the three hundred
- 21 and seventeen (317), because that would have already
- 22 been achieved, because again, we're -- we're resetting
- 23 the clock when we put the plans together.
- 24 MR. BOB PETERS: All right. Well,
- 25 thank you. That helps explain, then, how the math --

- 1 you just have to subtract the prior accumulation --
- MS. LOIS MORRISON: Yes.
- 3 MR. BOB PETERS: -- is what you're
- 4 saying, to get the -- the year -- year-to-year
- 5 comparisons?
- 6 MS. LOIS MORRISON: Yes.
- 7 MR. BOB PETERS: The -- the question
- 8 that you answered to the Chairman is interesting. If
- 9 you turn to page 421 of the book of documents, it's an
- 10 area that Mr. Weins has already exhausted. But these
- 11 are bill comparisons. And you're on page 421, found at
- 12 Tab 43, Ms. Morrison?
- MS. LOIS MORRISON: Yes.
- 14 MR. BOB PETERS: According to Manitoba
- 15 Hydro's request before the Board, Ms. Morrison, if
- 16 Manitoba Hydro was successful in its entirety, Mr.
- 17 Weins tells the Board that a customer using a thousand
- 18 kilowatt hours on average per month will see their bill
- 19 go up two dollars and sixty-two cents (\$2.62).
- 20 Have I stated that correct, Mr. Weins?
- 21 MR. ROBIN WEINS: Yes, you have.
- MR. BOB PETERS: Then you taught me
- 23 well. Now, Ms. Morrison, in answer to the Chairman's
- 24 question, you did mention in your direct evidence that
- 25 you had this Small Savings Add Up, was the former media

- 1 campaign by Manitoba Hydro?
- MS. LOIS MORRISON: As a result of all
- 3 the past participation and such adding up to today's --
- 4 I'll have to refer to my notes here. The energy
- 5 savings to date, as a result of all of our past
- 6 initiatives, means that customers are saving \$62
- 7 million annually.
- 8 MR. BOB PETERS: Right. Let's -- let's
- 9 break that down to the typical residential customer who
- 10 consumes a thousand kilowatt hours per month and are
- 11 facing a two dollar and sixty-two (\$2.62) monthly, on
- 12 average, increase.
- Can you tell the Board, for the
- 14 residential customer who has participated in your
- 15 programs, how much they will save on a monthly basis
- 16 compared to what the rate increase is?
- MS. LOIS MORRISON: No, I don't have
- 18 that number readily available.
- 19 MR. BOB PETERS: Did Manitoba Hydro --
- 20 there used to be a calculator online -- maybe it's
- 21 still there; I don't know -- the Small Changes Add Up
- 22 one, where you can punch in what -- what initiatives
- 23 you take and what the outcome would be for -- for that?
- 24 Am I dating myself?

2870 1 (BRIEF PAUSE) 2 3 MS. LOIS MORRISON: There has been some adjustments to our website, so we're just checking. 5 MR. BOB PETERS: And I appreciate it. It ever evolves, Ms. Morrison. But let me come at it from this direction. 7 You've shown the Board that Manitoba 8 9 Hydro has a fridge recycling program. And if -- if you went into a residential consumer's home with their 10 permission and extracted their old fridge or freezer, 11 how much of an average monthly savings do you expect 13 that person will achieve? 14 15 (BRIEF PAUSE) 16 17 MS. LOIS MORRISON: So assuming that 18 fridge is using 1,500 kilowatt hours a year, which is very reasonable, given some of these older fridges -not the ones with the rounded sides, mind you; the 21 1970s versions -- you'd be saving a hundred and five 22 dollars (\$105) a year. So about eight dollars and 23 seventy-five cents (\$8.75) a month. 24 MR. BOB PETERS: Does the consumer who then removes their fridge and doesn't buy another new

- 1 old one, or even a new new one, the intention is that
- 2 their bill will be forever lower as a result of the one
- 3 (1) initiative, correct?
- 4 MS. LOIS MORRISON: There's a mix.
- 5 We're hoping that by having this education plan -- play
- 6 -- program in place, customers will realize that they
- 7 shouldn't replace it when it dies. As we know, the
- 8 second fridge will die at some point. And some people
- 9 will go out when their second fridge dies and get a new
- 10 second fridge or replace it in some way.
- So for those customers that we've able -
- 12 we've been able to educate that this isn't
- 13 necessarily in their best interest, they would continue
- 14 to see -- see those savings, going forward.
- 15 MR. BOB PETERS: When it comes to --
- 16 when it comes to people who choose not to participate
- 17 in that program, who would like to have their -- their
- 18 cool beverage next to their large screen in their
- 19 basement and they don't want to march upstairs and --
- 20 and find the other fridge, Manitoba Hydro really takes
- 21 a position that that's the customers choice and there's
- 22 nothing we can do about it.
- We've already tried to incent you with
- 24 forty dollars (\$40), and we're not going to go any
- 25 higher?

- 1 MS. LOIS MORRISON: At this point, no.
- 2 We think we've -- we've undertaken efforts to educate
- 3 you on the benefits of -- of -- of removing the fridge
- 4 and the exercise attached to going upstairs to get that
- 5 beer from the fridge in the kitchen. Along with the
- 6 forty dollar (\$40) incentive, the free pick-up, we --
- 7 we feel we've made it as convenient as possible for
- 8 customers to participate.
- 9 MR. BOB PETERS: But the forty dollars
- 10 (\$40) was designed to be the inducement for -- for
- 11 someone to give up that convenience?
- 12 MS. LOIS MORRISON: Along with the free
- 13 pick-up. We -- we did actually have -- received
- 14 anecdotal comments back from customers says, Wow, I
- 15 would have just done it for the free pick-up.
- 16 MR. BOB PETERS: And you'll have
- 17 customers who will say, I want more than forty dollars
- 18 (\$40) to give up my convenience?
- 19 MS. LOIS MORRISON: Yes, and those
- 20 customers allocate more value on having that fridge
- 21 available to them in the basement.
- MR. BOB PETERS: And how did forty
- 23 dollars (\$40) become the magic number in the program,
- 24 as opposed to a hundred dollars or twenty dollars
- 25 (\$20)?

2873 MS. LOIS MORRISON: We looked at 1 participation rates in other jurisdictions, based on what they were providing as incentives. We looked at -3 - and what we found in other jurisdictions were they were giving twenty-five dollars (\$25) in some areas, thirty dollars (\$30), forty-five (45). So -- so there 7 was -- there was a wide range. Some people were only offering the free pick-up -- or some utilities. So we looked at whether it should be --10 originally, actually, we looked at the twenty-five 11 dollar (\$25), and we felt we should increase it in 12 order to accelerate participation. And we looked at it 13 from what the Utility was willing to invest and not -and -- and limit the burden on the ratepayer. 14 15 MR. BOB PETERS: While you were able to 16 calculate relatively quickly the -- the approximate 17 monthly benefit from -- from trading in a new fridge --18 old fridge, have you have the same calculations or monthly benefits by the insulation programs that you 20 offer? 21 What's the -- what's the average monthly 22 savings for those -- for those customers? 23 24 (BRIEF PAUSE) 25

- 1 MS. LOIS MORRISON: Under the Home
- 2 Insulation Program, if you're heating electrically
- 3 we're looking at about three hundred and seven dollars
- 4 (\$307) a year, on average. And -- and this is a
- 5 blended average of a number of different measures that
- 6 customers could undertake in their home. It would
- 7 represent a blended average of attic insulation,
- 8 basement insulation, so some customers will do attic,
- 9 some will do basement, but this just kind of an overall
- 10 average. So about twenty-six dollars (\$26) a month.
- 11 MR. BOB PETERS: Ms. Morrison, I want
- 12 to turn to page 323 in the book of documents. This
- 13 document comes before the Board from the evidence of
- 14 Mr. Dunsky who will be before the Board next week.
- Mr. Dunsky is a consultant known to
- 16 Manitoba Hydro?
- MS. LOIS MORRISON: Yes.
- MR. BOB PETERS: Formerly a consultant
- 19 to Manitoba Hydro?
- MS. LOIS MORRISON: Yes.
- 21 MR. BOB PETERS: You've worked with
- 22 him?
- 23 MS. LOIS MORRISON: Manitoba Hydro
- 24 worked with him, yeah.
- MR. BOB PETERS: Not you?

- 1 MS. LOIS MORRISON: As I mentioned in
- 2 my previous introduction, I -- I did have a three (3)
- 3 year stint in our business support services group, and
- 4 it was during that time that Mr. Dunsky worked with our
- 5 Power Smart group.
- 6 MR. BOB PETERS: All right. And Mr.
- 7 Dunsky had in his prefiled evidence a calculation of a
- 8 savings ratio, and you -- you referenced that in your
- 9 direct evidence through Ms. Fernandes today as --
- 10 that's a concept which you are familiar?
- MS. LOIS MORRISON: Yes.
- MR. BOB PETERS: And if we look at page
- 13 323, Mr. Dunsky has calculated savings ratios for
- 14 various utilities in various jurisdictions, correct?
- 15 MS. LOIS MORRISON: That is correct.
- 16 MR. BOB PETERS: And a savings ratio is
- 17 calculated based on the gigawatt hours of energy saved
- 18 over the gigawatt hours of energy sold by the Utility.
- 19 MS. LOIS MORRISON: That is correct.
- 20 MR. BOB PETERS: And you don't dispute
- 21 Mr. Dunsky's math, at least not respecting Manitoba
- 22 Hydro's savings ratio?
- MS. LOIS MORRISON: No.
- 24 MR. BOB PETERS: One (1) of the points
- 25 put out -- and if we look on page 323 and we see where

- 1 the top quartile extends at the top of the page, you
- 2 can see how far into the bar chart it goes. Manitoba
- 3 Hydro is not in the top quartile, in terms of 2010
- 4 results with its DSM savings ratio, is it?
- 5 MS. LOIS MORRISON: That is correct.
- 6 MR. BOB PETERS: Does Manitoba Hydro
- 7 study its position within various peer groups?
- MS. LOIS MORRISON: We don't generally
- 9 look at the saving's metric that is posed by Mr.
- 10 Dunsky. What we tend to do -- or sorry, what we do do
- 11 is we look at what we offer in terms of programming,
- 12 and attempt to make sure that we have a very
- 13 comprehensive offering for our customers.
- So we'll look at what other
- 15 jurisdictions are offering and identify: Is that an
- 16 opportunity that would fit within our marketplace? And
- 17 is that an approach that would fit within our
- 18 marketplace, given, as I mentioned, the marginal value
- 19 of energy? And what opportunities are available -- the
- 20 costs of -- of installing that? Is it something that
- 21 can be used in our jurisdiction?
- 22 A number of the jurisdictions that are
- 23 noted here are pursuing items. Just for example, heat
- 24 pump water heaters; those -- those aren't something
- 25 that's -- that we would look at in Manitoba, just

- 1 because of the fact that it doesn't suit our
- 2 marketplace. Our heat -- our water heaters are in the
- 3 house. So basically you're using conditioned air to
- 4 heat your water. It -- it's not -- the -- the energy
- 5 savings, if present, would be marginal. And therefore,
- 6 not economic from the customer's perspective, a
- 7 resource perspective, or the utility's perspective.
- 8 So -- so we -- we try to look at how
- 9 comprehensive our offering is. We look at what
- 10 opportunities might be there. Are we offering programs
- 11 that are similar to other jurisdictions? Are we
- 12 including all -- technologies that are similar? If we
- 13 are, great,; if we're not, why not? That's how we --
- 14 we tend to assess ourselves compared to other
- 15 jurisdictions.
- 16 MR. BOB PETERS: You -- you say you --
- 17 you -- you say Manitoba Hydro tries to have a
- 18 comprehensive menu of programs for its customers?
- MS. LOIS MORRISON: Yes.
- 20 MR. BOB PETERS: And if -- if a
- 21 residential customer buys a home that is insulated to
- 22 code, has the aerated shower heads and faucets, the
- 23 low-flow showerheads and the aerated faucets, and
- 24 doesn't have a beer fridge in the basement, what other
- 25 slate of programs are there for the -- for the

- 1 residential customer that is part of Manitoba Hydro's
- 2 DSM?
- 3 MS. LOIS MORRISON: Well, if -- if
- 4 they've purchased a brand new Power Smart home and they
- 5 are -- they've -- they don't have the second beer
- 6 fridge, then we are, as I mentioned, having a -- a more
- 7 difficult time finding that next layer of energy --
- 8 economic energy savings for that customer.
- 9 So we may look to other initiatives that
- 10 we're involved in. As I mentioned, codes and
- 11 standards. We are working with the Federal Government.
- 12 And in that case we may be able to influence some of
- 13 the appliances that that customer is bringing into
- 14 their home.
- We did previously have an energy
- 16 efficiency appliance program where we promoted Energy
- 17 Star appliances, and that's all be -- has been very
- 18 effective in -- in getting to the point where if you go
- 19 and do a shelf serv -- a shelf space survey, you'll
- 20 note that the majority of the appliances that are on
- 21 the shelf are Energy Star or -- or meet a certain
- 22 minimum. So -- so now you're having to go to that next
- 23 level of Energy Star, or a Tier 4 Energy Star, and --
- 24 and that's when we're getting into the -- the savings
- 25 are very fine associated with those -- those

- 1 technologies.
- MR. BOB PETERS: Thank you. Moving
- 3 ahead to page 324. Mr. Dunsky draws a -- a graph or --
- 4 and puts a line through it, I suppose statistically
- 5 based, and it depicts Manitoba Hydro's past and future
- 6 savings outlook related to DSM.
- 7 And you've had a chance to review that?
- MS. LOIS MORRISON: Yes.
- 9 MR. BOB PETERS: Prior to 2009, the
- 10 trend was relatively upwards, correct?
- 11 MS. LOIS MORRISON: That is correct.
- 12 MR. BOB PETERS: And then in 2009
- 13 that's the year in which the trend in savings starts
- 14 pointing downwards?
- 15 MS. LOIS MORRISON: That is correct.
- 16 MR. BOB PETERS: And you're telling the
- 17 Board that that's -- at this point in time that's based
- 18 on the best information Manitoba has and that's a
- 19 likely expected outcome by Manitoba Hydro?
- 20 MS. LOIS MORRISON: Yes, those are the
- 21 incremental savings each year that we're anticipating
- 22 to see, and that does reflect diminishing availability
- 23 given our current market conditions.
- 24 MR. BOB PETERS: Well, Mr. Dunsky
- 25 thought of that too. And if we turn to page 325 Mr.

- 1 Dunsky plots Manitoba Hydro, at least where Manitoba
- 2 Hydro's DSM would be in various years based on the
- 3 information that he reviewed, and you can see that he
- 4 assigns new ratios to Manitoba Hydro, each one
- 5 declining from the previous one over the -- over the
- 6 chart?
- 7 I'm on page 325.
- 8 MS. LOIS MORRISON: Yes.
- 9 MR. BOB PETERS: Now, I don't believe
- 10 he updated all of the peers in this chart, as to where
- 11 they would be over the specific time-frames, but in
- 12 terms of what he's attempting to depict here is that
- 13 Manitoba Hydro will be working its way towards the
- 14 bottom quartile in light of its present plan.
- 15 And you don't dispute that in terms of
- 16 the math?
- 17 MS. LOIS MORRISON: Not in terms of the
- 18 math, but you are correct in that he isn't showing any
- 19 of the other -- how the other jurisdictions are going
- 20 to be performing in terms of their targets as they go
- 21 forward.
- 22 And in most cases many of the
- 23 jurisdictions, especially in the United States,
- 24 traditionally put together three (3) year plans. They
- 25 may have an overriding target that is set out as an

- 1 energy policy perspective. But individual utilities
- 2 will have a three (3) year plan as to how they're
- 3 actually going to try and get those savings in the next
- 4 couple of years. Some of our discussions with our
- 5 counterparts have identified that they recognize it's
- 6 going to be harder to meet those targets after.
- 7 MR. BOB PETERS: I was going to ask you
- 8 that previously and I forgot, Ms. Morrison. So thank
- 9 you for reminding me.
- 10 But the Energy Savings Act that now
- 11 requires Manitoba Hydro to -- to prepare its -- its
- 12 energy savings plan and file it with the provincial
- 13 government, does that suggest to the Board that the
- 14 province is going to be taking a more active role in
- 15 the setting of the energy savings policy -- policy for
- 16 the province?
- MS. LOIS MORRISON: I don't know.
- 18 MR. BOB PETERS: Does it signal that to
- 19 Manitoba Hydro?
- 20 MS. LOIS MORRISON: They have always
- 21 been very interested in what we're doing from an energy
- 22 perspective, and I can't comment on that right now.
- 23 MR. BOB PETERS: But you've always
- 24 filed your Power Smart plan with the province, just
- 25 like you do with the PUB?

- 1 MS. LOIS MORRISON: No.
- MR. BOB PETERS: Oh, you don't?
- 3 MS. LOIS MORRISON: No.
- 4 MR. BOB PETERS: So now the Energy
- 5 Savings Act requires you to file -- file it with the
- 6 province, and you don't know what will come of that
- 7 filing with the province?
- 8 MS. LOIS MORRISON: At this point in
- 9 time, no, I don't know what's going to arise out of
- 10 that consultation. We actually need to do it in
- 11 consultation with the Minister.
- And maybe this is a good point for me to
- 13 correct the record.
- 14 Previously, I had said we didn't have a
- 15 2012 plan. We have a draft 2012 plan that we had
- 16 started to put together that was not finalized. And we
- 17 have not finalized it because of the -- the fact that
- 18 we now have to consult with the government prior to in
- 19 -- issuing -- because of this new consultation
- 20 requirement. So there is a placeholder in -- in --
- 21 that we put in to both the updated 2012 resource plan
- 22 and in the updated IFF 2012 -- IFF12.
- 23 MR. BOB PETERS: But that's based on
- 24 the \$34 million a year spending that I think we
- 25 reviewed when we started today?

2883 MS. LOIS MORRISON: There are some fin 1 -- there are some adjustments to it, to reflect, of course, dropping off a year, and some adjustments to a 3 couple of programs. 5 MR. BOB PETERS: Does the \$34 million in each of the test years change? 7 MS. LOIS MORRISON: It's still in the ballpark. 9 10 (BRIEF PAUSE) 11 MR. BOB PETERS: I'm not intentionally 12 13 going backwards, but I'm on 312. 14 MS. LOIS MORRISON: 312? 15 MR. BOB PETERS: Page 312 --16 MS. LOIS MORRISON: Okay. 17 MR. BOB PETERS: -- the Board counsel's 18 book of documents. And we had discussed earlier that in the first test year the dollar amount expended and -- to be included in rates that Manitoba Hydro is 21 seeking was thirty-four million four hundred and nine thousand dollars (\$34,409,000), and thirty-four million 22 seven hundred and twelve thousand dollars (\$34,712,000) 24 in the second test year. 25 Do you recall that?

2884 MS. LOIS MORRISON: Yes. 1 2 MR. BOB PETERS: And your -- your second last answer didn't give me comfort that the \$34 3 million was still in the budget. Has the budget changed now? 6 MS. LOIS MORRISON: The -- the budget is changed and I believe -- I believe it's lower than the \$34 million. 9 MR. BOB PETERS: All right. Would you 10 be able to --11 MS. LOIS MORRISON: We --12 MR. BOB PETERS: -- to update the Board 13 on that? 14 MS. LOIS MORRISON: On this table? 15 Yes. 16 MR. BOB PETERS: All right. That would 17 be helpful. And if you updated this table, you would 18 be --19 MS. LOIS MORRISON: Oh, sorry. 20 MR. BOB PETERS: -- you'd be able to 21 indicate whether there were any new or replaced 22 programs? 23 MS. LOIS MORRISON: My -- my staff is 24 groaning. I was going to say I can give you an update 25 on the overall budget.

2885 MR. BOB PETERS: Well, let's -- let's 1 leave it at that. Let's leave it at that. 3 MS. LOIS MORRISON: Okay. MR. BOB PETERS: But -- the back row will be -- Colleen and Cheryl will be happy. 6 The -- the point that -- the point, 7 though, not to be lost and I will get to the undertaking that we -- we want is: What amount does the Corporation include in the two (2) -- in each of 10 the test years related to their DSM expenditure 11 program? 12 MS. LOIS MORRISON: Yes, we will -- we 13 will provide you with that. 14 MR. BOB PETERS: And when you did say 15 there were some adjustments to the programs, do I take 16 it that those would be considered minor adjustments to 17 the program, or are you dropping some and introducing 18 some brand new ones that we haven't talked about? 19 (BRIEF PAUSE) 20 21 22 MS. LOIS MORRISON: I'm -- I'm a little 23 hesitant, given that we haven't had the consultation in detail with the province yet, as to give details as to 24 25 what is and isn't in it. Would it be all right if we

2886 were to provide you with the dollars, specifically? MR. BOB PETERS: That'll be fine. So 2 the undertaking would be to update the Board on the -the cumu -- the total of the electric utility DSM expenditures in each of the two (2) test years that's before the Board. 7 MS. LOIS MORRISON: Okay, thank you. --- UNDERTAKING NO. 61: Manitoba Hydro to provide 10 an update on the total of 11 electric utility DSM 12 expenditures in each of the 13 two (2) test years that's 14 before the Board 15 CONTINUED BY MR. BOB PETERS: 16 17 MR. BOB PETERS: Back to page 326. 18 information that came through the -- Mr. -- through Mr. 19 Dunsky's evidence plotted Manitoba Hydro's savings relative to a cohort group that he identified. 21 Do you recall that? 22 MS. LOIS MORRISON: Yes. 23 MR. BOB PETERS: Do you take issue with 24 the cohort group that he identified, which included BC 25 Hydro, Nova Scotia, looks like Massachusetts,

- 1 Minnesota, and Vermont?
- MS. LOIS MORRISON: Well, as I
- 3 mentioned in my direct testimony, we support the
- 4 concept of comparing to metrics; however, it has to be
- 5 done with caution and in consideration of all the --
- 6 the differences between the two (2) markets or between
- 7 the markets.
- 8 As I mentioned, Vermont, Nova Scotia,
- 9 and British Columbia, all have significantly higher
- 10 marginal values associated with the energy savings,
- 11 which means that technologies that would be economic
- 12 there may not be economic in Manitoba. The other issue
- 13 that we had talked about was the presence of -- and Mr.
- 14 Dunsky did attempt to -- to look at it from the
- 15 perspective of the heating degree days, but what was
- 16 not considered was the percentage of electric heat
- 17 associated with that.
- 18 And when you have that in the metric,
- 19 what it does is it drives up the size of your
- 20 denominator. So, when you're doing the math, we're
- 21 starting out with a much larger denominator just
- 22 because of the fact that we have higher degree heating
- 23 -- degree days heating and a higher percentage of
- 24 electric heat. And -- and there has been discussion
- 25 that -- well then that means you have more

- 1 opportunities for improving your insulation levels
- 2 which generate savings. That's true, but most
- 3 Manitobans will -- will attest to the fact that there
- 4 is still -- that we do have very well insulated houses,
- 5 we -- traditionally. We have looked at our market and
- 6 -- and the number of electrically heated houses that
- 7 are actually in -- in relatively good position for
- 8 insulation is quite large.
- 9 So, it comes down to when -- when you're
- 10 looking at these metrics, they have value. I don't
- 11 want to discount that they have value. I just think
- 12 that we need to make sure that we're evaluating it in
- 13 context.
- 14 MR. BOB PETERS: Which jurisdiction do
- 15 you -- does Manitoba Hydro say is the -- is the closest
- 16 comparable?
- 17 MR. RAYMOND LAFOND: Looking at the
- 18 previous page 325, will not Quebec be relatively
- 19 comparable though, because it does use a lot of
- 20 electric heating?
- 21 MS. LOIS MORRISON: Yes, Quebec would
- 22 be closer in -- in a number of ways. They have higher
- 23 degree heat days heating; not as high as us, but they
- 24 do. They have a higher percentage of electric heat,
- 25 yes. And they have a large industrial load, but their

- 1 industrial load is also very similar to BC's, in that
- 2 they're very -- they're not as diverse. So they've got
- 3 very concentrated large number of pulp and paper, a
- 4 large number of mining. Whereas, we have one (1) or
- 5 two (2) of everything, which -- which also impacts our
- 6 opportunities.
- 7 But they are closer then -- then the
- 8 other jurisdictions that Mr. Dunsky has noted.
- 9 MR. BOB PETERS: And I suppose I maybe
- 10 should have mentioned it previously, but if we go back
- 11 to page 323, as -- for Board Member Lafond's question.
- 12 The -- the depiction of Quebec Hydro on the chart, on
- 13 page 323 of Board counsel's book of documents, that
- 14 utility is misplaced as I recall reading in either the
- 15 evidence or the information request, because the Hydro
- 16 Quebec savings ratio was decimal five seven (.57)?
- MS. LOIS MORRISON: That is correct.
- 18 MR. BOB PETERS: So where it's shown
- 19 here to the right of Manitoba Hydro, it actually would
- 20 be on the left-hand side of Manitoba Hydro at the
- 21 proper point five seven (.57), close to the point six
- 22 (.6) line?
- 23 MS. LOIS MORRISON: That is correct.
- 24 MR. BOB PETERS: All right. I just
- 25 wanted to clarify that for the benefit of Board member

- 1 Lafond, because that was -- was a correction that I
- 2 think I -- we both recall on the evidence.
- 3 Mr. Chairman, I wanted to turn to some
- 4 screening tests done by Manitoba Hydro with respect to
- 5 DSM, and I -- I expect I'm going to need another hour
- 6 in the morning, if that would suit the Board, to -- to
- 7 complete that before I turn it over to Mr. Williams.
- If this is an appropriate time, perhaps
- 9 we could adjourn then for the day?
- 10 MR. RAYMOND LAFOND: Can I ask a couple
- 11 of questions before we -- you indicated that your DSM
- 12 report from the consultant that's now being worked on
- 13 and should be ready fairly soon, does not go to the
- 14 Manitoba Hydro Board. Do you, however -- two (2)
- 15 questions: Do you -- do you, however, provide some
- 16 kind of a summary analysis, and also a yearly report to
- 17 your Board as to what the DSM program has done from a -
- 18 a savings perspective, in terms of energy use and
- 19 also a financial perspective?

20

21 (BRIEF PAUSE)

- MS. LOIS MORRISON: We traditionally --
- 24 when we do our -- our annual report on activity to
- 25 date, it goes up as a component of our Board report.

- 1 And so the -- the Manitoba Hydro Board would be made
- 2 aware of our activity to date and our -- our
- 3 performance to date on our Power Smart initiatives.
- 4 They also, when we prepare our annual Power Smart plan
- 5 going forward, would receive, as part of their monthly
- 6 Board submission, information on what our projection
- 7 going forward will be. In addition to that, I do know
- 8 that our Vice President has provided, for the new
- 9 Board, an update on what our Power Smart initiative is.
- 10 MR. RAYMOND LAFOND: Would it be
- 11 possible for the Public Utilities Board to get a copy
- 12 of these?

13

14 (BRIEF PAUSE)

- 16 MS. LOIS MORRISON: We're just checking
- 17 with our lawyers.
- MR. RAYMOND LAFOND: While you do this,
- 19 Mr. Rainkie, could tell me -- and I've tried to
- 20 identify it in the annual report, and it's not --
- 21 'cause I think it's included in other category of fixed
- 22 assets -- the -- the unamortized book value of DSM
- 23 costs?
- 24 MR. DARREN RAINKIE: Mr. Lafond, I've
- 25 had it here ready for a while, but I didn't want to bog

- 1 Mr. Peters down any more than I usually do. So if you
- 2 pull out page 70 of the annual report, it's Note 10.
- 3 We do actually segregate out our rate
- 4 regulated assets. And we actually segregate it out
- 5 between electric and gas DSM. So the unamortized
- 6 amount related to electric Power Smart programs at the
- 7 -- at March 31st, 2012, was \$174 million. That's on
- 8 page 70.
- 9 MR. RAYMOND LAFOND: Thank you very
- 10 much. I was looking for it and I looked at different
- 11 notes, but missed that. And -- and that's going to be
- 12 my last question.
- In regards to the savings, from a pers -
- 14 a customer perspective and Power Smart Program, how
- 15 do you deal with the issue of customers, for instance,
- 16 wanting to move to gas? Is that part of the Power
- 17 Smart Program?
- MS. LOIS MORRISON: We have not
- 19 traditionally in the past incented or encouraged people
- 20 to pick one (1) fuel over the other and included it as
- 21 part of our energy conservation initiative.
- MR. RAYMOND LAFOND: So, therefore, I
- 23 guess when you look at it you would simply approach a
- 24 customer strictly from an electrical-use perspective,
- 25 and -- and not combining-the-gas perspective?

- 1 MS. LOIS MORRISON: We -- we look at it
- 2 from a combined perspective in the sense of we
- 3 recognize the interactive effects between natural gas
- 4 and electricity when energy efficiency improvements are
- 5 being undertaken.
- 6 We also look at it from a combined
- 7 perspective that we want the most efficient use of the
- 8 energy to be undertaken. So whether you have a natural
- 9 gas heat at home or an electrically heated home, we're
- 10 encouraging you to use the most energy efficient
- 11 measures possible.
- But we having used it to say optimize
- 13 our system in that we want to, you know, move people to
- 14 gas in order to free up electricity, or we want to move
- 15 people to electricity in order to free up electricity,
- 16 or we want to move people to electricity in order to
- 17 free up natural gas. We have not done that.
- MR. RAYMOND LAFOND: Thank you.
- 19 THE CHAIRPERSON: I have a small
- 20 question in relation to the corporate goal on page 50
- 21 of the annual report, which talks to the promotion of -
- 22 of wise and efficient use of energy, and encouraging
- 23 research and development.
- 24 I guess my question is: The corporate
- 25 goals, in respect of conservation and so on, has --

2894 have not changed relative to this report? The -- the Board of Directors have not made a change there at all? 3 MS. LOIS MORRISON: No. There is still a -- there is still a commitment on our executive level and our Board of Directors to engage in conservation and energy efficiency. THE CHAIRPERSON: I believe that's all 7 the questions we have for this evening. So I -- I -we will adjourn the proceedings for today, and we'll see each other again tomorrow morning at nine o'clock. 10 11 Sorry -- I'm sorry, Ms. Fernandes, I didn't see you. 12 MS. ODETTE FERNANDES: That's all 13 Thank you, Mr. Chairman. Just in regards to Mr. Lafond's request regarding seeing materials that 15 went up to the Board, we will take that under advisement and then let this Board know what we can provide. 17 18 THE CHAIRPERSON: Thank you for that. 19 So good evening, everyone. We'll see each other again 20 tomorrow morning. 21 22 (PANEL RETIRES) 23 24 --- Upon adjourning at 4:38 p.m. 25

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