

## MANITOBA PUBLIC UTILITIES BOARD

re:

MANITOBA HYDRO

2023/24 and 2024/25

GENERAL RATE APPLICATION

Hearing

Before Board Panel:

Robert Gabor, KC - Board Chairperson

Marilyn Kapitany - Board Vice Chair

Carol Bellringer - Board Member

Hamath Sy - Board Member

George Bass, KC - Board Member

HELD AT:

Public Utilities Board

400, 330 Portage Avenue

Winnipeg, Manitoba

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Pages 1090 to 1136



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- 1 --- Upon commencing at 9:00 a.m.
- 2
- 3 THE CHAIRPERSON: Good morning,
- 4 everyone. Mr. Peters, do you want to take us through
- 5 the daily overview?
- MR. BOB PETERS: Yes. Thank you.
- 7 Good morning, Mr. Chair, Board members, Daymark
- 8 witness, counsel, ladies and gentlemen.
- 9 The plan today is to start the morning
- 10 on the public record for approximately an hour so that
- 11 I, on behalf of the Board, can complete the questions
- 12 that we have for Daymark on the public record.
- 13 Following that, we're going to ask the
- 14 Board for the morning break because there will need to
- 15 be a technology turnover to ensure that the in camera
- 16 session will be held totally off of the record and
- 17 that parties are not given access through any of the
- 18 technological means.
- 19 And after we are set up for the in
- 20 camera portion, Manitoba Hydro, due to witness
- 21 availability, is putting forward I believe Mr. Fogg
- 22 who will be testifying on a revenue requirement
- 23 matter, and that will take a short period of time.
- 24 And after that is finished, we'll resume with Manitoba
- 25 Hydro's panel on the exports.

- 1 So there's a little bit of juggling for
- 2 witness availability, but we're confident we can
- 3 finish relatively on schedule, sir.
- 4 THE CHAIRPERSON: Okay. If you'd like
- 5 to proceed.
- 6 MR. BOB PETERS: Yes, I would, and of
- 7 course we note that we are on the public record. This
- 8 sparse audience suggests that people thought it was
- 9 Dr. Williams or Mr. Hacault who was going to be on the
- 10 microphone, but we'll -- we'll excuse them. They're
- 11 watching by the live stream, I'm sure.
- 12 THE CHAIRPERSON: I suspect they're on
- 13 the highway already.

14

- 15 DAYMARK PANEL:
- JOHN ATHAS, Resumed
- 17 DOUGLAS SMITH, Resumed
- 18 JEFFREY BOWER, Resumed

- 20 CROSS-EXAMINATION BY MR. BOB PETERS:
- 21 MR. BOB PETERS: Good morning to Mr.
- 22 Smith, Mr. Bower, Mr. Athas. We are on the public
- 23 record, as I've indicated a couple of times, so again
- 24 I want you to -- none of my questions are -- are at
- 25 this time seeking to elicit anything that would be

- 1 confidential. I'd ask you to be cautious of that.
- I'd also suggest to you that we do not
- 3 need to hear you repeat what you've told the Board
- 4 yesterday. If you've already told the Board that, you
- 5 can -- you don't need to repeat it for us today.
- 6 So with that general understanding,
- 7 gentlemen, I -- I have asked Ms. Schubert to put up
- 8 pages in Board counsels' second book of documents,
- 9 Exhibit PUB-19-2. On page 5, there's a -- a chart
- 10 about precipitation.
- 11
- 12 (BRIEF PAUSE)
- 13
- 14 MR. BOB PETERS: You're familiar
- 15 generally with this chart, are you?
- 16 MR. DOUGLAS SMITH: Yes, we are.
- 17 MR. BOB PETERS: And the thrust of it,
- 18 Mr. Smith, is that system precipitation starting back
- 19 in September of 2020 through to November of 2021 was
- 20 certainly below normal?
- MR. DOUGLAS SMITH: Yes.
- 22 MR. BOB PETERS: And it was also below
- 23 the other major drought that we remember in Manitoba
- 24 in the 2002/2003 fiscal year?
- MR. DOUGLAS SMITH: Correct. This is

- 1 showing total system precipitation, and it's -- it's
- 2 below that as well.
- MR. BOB PETERS: Yeah. And then on
- 4 the next page, 6, we have a couple of other charts
- 5 that I'm not planning to go into detail with you on.
- 6 The top one deals with hydraulic energy from inflows,
- 7 and you're generally familiar with that as well?
- 8 MR. DOUGLAS SMITH: Correct.
- 9 MR. BOB PETERS: And at the bottom of
- 10 the page is the energy in storage. You're generally
- 11 familiar again with that?
- MR. DOUGLAS SMITH: Yes.
- 13 MR. BOB PETERS: The thrust of it was
- 14 that, in the 2021 fiscal year, 2021/'22 fiscal year,
- 15 both of those indicators were all below normal for
- 16 most of the year if not all of the year?
- 17 MR. DOUGLAS SMITH: Yes, that's what
- 18 those are showing.
- 19 MR. BOB PETERS: All right. Now, if
- 20 we turn to Daymark's report on page 83, Daymark is
- 21 telling this Board that some of the key activities --
- 22 and it's been highlighted for the convenience of those
- 23 reading it.
- You say that in that year, the drought
- 25 management planning document provided some direction,

- 1 and yet other activities occurred more on an ad hoc
- 2 basis, correct?
- MR. DOUGLAS SMITH: Yes.
- 4 MR. BOB PETERS: And the ad hoc basis
- 5 is to reflect that not everything was in writing.
- 6 There was still discussion, consensus, judgment being
- 7 used in how to manage through the drought?
- 8 MR. DOUGLAS SMITH: Yes. I think that
- 9 is in part what is -- is meant here. I think in
- 10 addition -- so, the -- in addition to the -- to the
- 11 highlighted place, it says, "as conditions warranted."
- 12 And -- and what we meant by that is
- 13 that, as -- as conditions progressed throughout that
- 14 fiscal year, they continued to adjust and take
- 15 additional actions. And not all of those, as you say,
- 16 were -- were documented. Some of those were executing
- 17 professional judgment or responding to conditions and
- 18 events as they occurred.
- 19 MR. BOB PETERS: And from those charts
- 20 that I showed you just briefly, Mr. Smith, you would
- 21 agree that there were -- in the -- in the 2021/'22
- 22 fiscal year, there were periods of increased drought
- 23 risk throughout that year?
- 24 MR. DOUGLAS SMITH: I think -- as a
- 25 shorthand for -- for a complex situation, I think

- 1 that's -- that's a fair assessment. Precipitation was
- 2 low. It was not uniformly low. And -- and the -- but
- 3 it was -- it was unfolding over the course of months.
- 4 It was increasingly severe.
- 5 MR. BOB PETERS: Manitoba Hydro, to
- 6 your understanding, recognized the escalation of the
- 7 increased risk of drought throughout that year, and
- 8 they took certain steps as that progressed?
- 9 MR. DOUGLAS SMITH: Correct.
- 10 MR. BOB PETERS: In your report that's
- 11 on the screen you indicate that because of the drought
- 12 that was eminent or happening, there were some steps
- 13 taken by Manitoba Hydro, the first of which was to
- 14 strike an oversight committee in August of 2021,
- 15 correct?
- 16 MR. DOUGLAS SMITH: Yes. I believe
- 17 the first meeting was on or about the 4th of August.
- 18 MR. BOB PETERS: And that oversight
- 19 committee was to guide the weekly resource planning
- 20 team that was -- that was meeting?
- 21 MR. DOUGLAS SMITH: I don't -- I don't
- 22 want to be overly specific about what -- what their
- 23 intentions were. They were providing oversight. They
- 24 were receiving reports that were a summation of some
- 25 of the key points related to -- to the unfolding

- 1 conditions, both in the markets and in hydrology.
- 2 And -- and there was clear evidence
- 3 that there was discussion back and forth with members
- 4 of that weekly team and the oversight committee to --
- 5 to address potential actions and -- and how to
- 6 respond.
- 7 MR. BOB PETERS: All right. On -- on
- 8 Daymark's slide 53 of the Daymark slide deck that was
- 9 shown yesterday which is marked as Exhibit Daymark
- 10 number 4, you say -- you say essentially that, on the
- 11 first bullet:
- "To adhere to the Drought Management
- 13 Plan biweekly meetings were
- 14 established starting in early
- 15 August."
- You said now August 4, 2021, correct?
- 17 MR. DOUGLAS SMITH: Yes, subject to
- 18 check, that's -- that's my recollection of the first
- 19 meeting.
- 20 MR. BOB PETERS: And if we go to
- 21 Manitoba Hydro's application to appendix 5.3, in their
- 22 appendix 5.3, page 12, the -- there's a sentence that
- 23 starts off:
- 24 "The CFO business unit is in the
- 25 process of implementing an

1100 1 enterprise risk management framework." 2 You see that? MR. DOUGLAS SMITH: I do. 4 5 MR. BOB PETERS: Were you aware that that -- that the -- the chief financial officer, the business unit under -- under his control, was in the process of implementing an enterprise risk management framework? 10 MR. DOUGLAS SMITH: I'm generally aware of -- of that fact. I did not investigate what 11 12 exactly that meant. 13 MR. BOB PETERS: All right. The last 14 sentence then on that paragraph is that: 15 "Currently oversight of these risks . . . " 16 17 And these risks are referring to drought. 18 19 "...is the responsibility of a team of executives including the Vice 20 Presidents." 21 22 And there's three (3) Vice Presidents 23 listed, correct? 24 MR. DOUGLAS SMITH: As well as the 25 Chief Financial Officer, yes.

- 1 MR. BOB PETERS: Actually, I think --
- 2 I think that's the third Vice President. And maybe
- 3 I'm not counting them correctly.
- 4 Yeah. The -- the Vice President and
- 5 Chief Financial Officer would be the -- would be the
- 6 third Vice President? I probably didn't ask that very
- 7 clearly.
- 8 MR. DOUGLAS SMITH: I -- yes, I see
- 9 that.
- 10 MR. BOB PETERS: Okay. Thank you.
- 11 If we go down to the next paragraph and we -- we look
- 12 at the second sentence:
- "During periods of increased drought
- 14 risk, executive will be updated
- 15 regularly and in greater detail and,
- if appropriate, review and approve
- 17 risk tolerances and risk mitigation
- 18 strategies."
- 19 Correct?
- MR. DOUGLAS SMITH: Yes.
- MR. BOB PETERS: That executive being
- 22 regularly updated is what you understand started on
- 23 August the 4th through those additional meetings, or
- 24 the oversight meetings?
- MR. DOUGLAS SMITH: My understanding

- 1 is that is when a specific committee was -- was stood
- $2\,$  up to receive presentations and have discussions. I -
- 3 I can't speak to whether there was communication
- 4 between that team of executives and the -- our PPS
- 5 prior to that. I -- I did not investigate any email
- 6 traffic or other things but the official start of
- 7 formal presentations to that group started in early
- 8 August.
- 9 MR. BOB PETERS: And my recollection
- 10 of the evidence from Mr. Gawne is that there would be
- 11 -- there would be monthly reports that -- that he
- 12 would send up to his Vice President.
- You're not aware of that?
- 14 MR. DOUGLAS SMITH: I did not review
- 15 monthly reports prior to...
- 16 MR. BOB PETERS: Well, in terms of
- 17 this oversight committee that was struck and first met
- 18 on August the 4th of 2021, that was to deal with the
- 19 increased drought risk, correct?
- 20 MR. DOUGLAS SMITH: I'm sorry, could
- 21 you repeat that?
- MR. BOB PETERS: The oversight
- 23 committee that you are aware was struck and then first
- 24 met on August the 4th of 2021 was to deal with
- 25 increased drought risk?

- 1 MR. DOUGLAS SMITH: That is my
- 2 understanding.
- MR. BOB PETERS: Do you know why that
- 4 committee wasn't struck in April or May or in June in
- 5 light of the precipitation, the energy and storage at
- 6 that point in -- in those earlier months?
- 7 MR. DOUGLAS SMITH: I -- I do not know
- 8 why it was not set up earlier.
- 9 MR. BOB PETERS: In Daymark's view,
- 10 would it have been beneficial for that comm -- for
- 11 that oversight committee to -- to have engaged
- 12 earlier?
- 13 MR. DOUGLAS SMITH: I think in -- in
- 14 our view, it would be beneficial to have oversight
- 15 like that full-time. And I think that is my
- 16 understanding of what has occurred subsequent to this
- 17 drought period, is a reconstitution of a oversight
- 18 committee that would meet periodically as -- as, sort
- 19 of, part of their process.
- 20 MR. BOB PETERS: And do -- do you know
- 21 -- and if I could ask Ms. Schubert to just scroll to
- 22 the -- just a few lines up to see the top paragraph on
- 23 this page.
- Is that -- is that activity that you're
- 25 referencing now, part of the Enterprise Risk

- 1 Management framework and this updated governance
- 2 model, that's causing this oversight committee to have
- 3 full-time meetings?
- 4 MR. DOUGLAS SMITH: My understanding
- 5 is that is part of that -- I -- I don't know, that I'd
- 6 speak to causation, but it is embedded in that
- 7 activity and effort.
- 8 MR. BOB PETERS: On page 87 of the
- 9 Daymark Exhibt 4 report, there's a paragraph that was
- 10 authored -- yes, thank you.
- 11 And the -- the upshot of what I heard
- 12 yesterday, Mr. Smith, was that Daymark was critical of
- 13 Manitoba Hydro because there is still a large amount
- 14 of knowledge that resides only in the minds of its
- 15 personnel and that that knowledge hasn't been reduced
- 16 to writing or incorporated into Manitoba Hydro's
- 17 existing policies.
- 18 Would that be a fair summary of the
- 19 Daymark conclusion?
- 20 MR. DOUGLAS SMITH: I -- I think what
- 21 we were -- what we were observing is that the process,
- 22 as described to us, involved a great many experts who
- 23 reflect the various positions of -- of the components
- 24 of Manitoba Hydro and the stakeholders that they
- 25 serve.

- 1 And that, in the course of our
- 2 interactions with the Manitoba Hydro team, they were
- 3 able to produce experts who could talk us through
- 4 pieces of what was happening at the time, what was
- 5 going on and why the -- why the team was working the
- 6 way it was.
- 7 And -- and they were very helpful in
- 8 that, but frequently they were producing knowledge
- 9 from their heads or producing a -- a document for us
- 10 at the time that would help us understand the complex
- 11 relationships. They were not necessarily pointing us
- 12 to existing documents that sort of laid that all out
- 13 in detail.
- 14 And so, the -- the point of this is
- 15 that's always the case with an expert system, you can
- 16 never capture everything that experts know
- 17 structurally in documents or in -- but this might be
- 18 an area in which additional investigation on the -- on
- 19 the part of Manitoba Hydro to -- to look at that from
- 20 a risk perspective and to see if there is more that
- 21 they can do to mitigate potential risks around the --
- 22 the concept of -- of expert knowledge that does not
- 23 exist memorialized in -- in documentation.
- MR. BOB PETERS: So, you're telling
- 25 this Board that Daymark came into situations where it

- 1 wanted or needed information and the information
- 2 didn't reside in the meeting room or the Zoom call
- 3 that you were on?
- 4 MR. DOUGLAS SMITH: It resided in --
- 5 in the explanations or the discussion with the people
- 6 in the meeting room or the Zoom room. And it did --
- 7 it was not something that they could just hand to us
- 8 for us to read. It was -- it was in conversation. It
- 9 was in illustrations. It was provided in examples
- 10 and, in some cases, producing a document to better
- 11 illustrate the points they were making.
- 12 That's the nature of expert knowledge.
- 13 There was enough of that, that we thought it was worth
- 14 calling out the question of whether more systematic
- 15 documentation would be helpful.
- 16 MR. BOB PETERS: Did Daymark determine
- 17 why it hadn't been reduced to writing?
- MR. DOUGLAS SMITH: No
- 19 MR. BOB PETERS: Did Daymark determine
- 20 that the lack of written information or written
- 21 directions cause any identifiable concerns during the
- 22 2021 drought management?
- MR. DOUGLAS SMITH: No.
- MR. BOB PETERS: There's no examples
- 25 that you -- you can provide to this Board?

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MR. DOUGLAS SMITH: No, the -- the --
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- 2 in -- in -- in fact, it was clear that the expert
- 3 knowledge was available to the RPPS team; that
- 4 the breadth of -- of involvement in that team brought
- 5 the necessary expertise to those weekly meetings.
- The -- the point that we're -- we're
- 7 making is that was -- that was possible because of the
- 8 breadth of expertise that was in that virtual room, in
- 9 that discussion, but not that there was a lack but
- 10 that there could be a future concern, given the amount
- 11 of that that resides in their experts and their
- 12 expertise and their -- their experience.
- 13 MR. BOB PETERS: Do I take from that
- 14 answer that the source of that expertise may not have
- 15 been in the room -- that that very person might not
- 16 have been available, but the other experts had an
- 17 understanding of that area and could discuss it at a
- 18 higher level, but not to the minutiae that the subject
- 19 matter expert would have been able to address?
- 20 MR. DOUGLAS SMITH: I -- I'm sorry,
- 21 which -- are you -- are you asking about the room
- 22 right when we were talking to them or the RPPS?
- MR. BOB PETERS: The RPPS.
- 24 MR. DOUGLAS SMITH: My understanding
- 25 is the RPPS included all experts necessary to have --

- 1 have that dialogue and reach that consensus.
- 2 MR. BOB PETERS: Thank you. On page
- 3 84 of Daymark's report, there is a -- a sentence
- 4 highlighted that senior management are informed of
- 5 operating conditions and review and approve decisions
- 6 related to drought management outside of established
- 7 controls and approval authority of line management.
- 8 Do you see that?
- 9 MR. DOUGLAS SMITH: I do.
- 10 MR. BOB PETERS: Can you tell this
- 11 Board, as an example, what decisions did this
- 12 oversight committee approve that were outside of the
- 13 established controls of line management?
- 14 MR. DOUGLAS SMITH: So, an example of
- 15 that would be the trading group needed to receive
- 16 approvals for volumes for products that they wished to
- 17 engage in hedging prior to engaging in -- in those
- 18 transactions.
- 19 MR. BOB PETERS: And that approval was
- 20 provided by the three (3) Vice-Presidents' oversight
- 21 committee?
- 22 MR. DOUGLAS SMITH: The -- the
- 23 approvals depended on the level being requested of the
- 24 volumes being requested and the products being
- 25 requested. I -- I don't recall, specifically, who

- 1 approved what, but that's outlined in the policy, and
- 2 they -- they followed the policy with respect to
- 3 acquiring those approvals.
- 4 MR. BOB PETERS: And, in your report,
- 5 Daymark sets out that drought management fundamentals
- 6 were established and, then, it goes on and it talks
- 7 about, just before the bullets, the principles
- 8 articulated.
- 9 So, my -- my basic question is: Are the
- 10 drought management fundamentals those five (5)
- 11 bullets?
- MR. DOUGLAS SMITH: So, I think the --
- 13 there -- there's, obviously, more to the drought
- 14 management funding document than -- than that. When
- 15 they stood up the -- the Oversight Committee, in the
- 16 first presentation that they did, they presented some
- 17 material, and my recollection is they -- they, as part
- 18 of that presentation, they established some of the --
- 19 the guiding principles behind how drought is managed.
- 20 I don't think it was intended to be
- 21 all-inclusive but more introductory, and to start a
- 22 conversation -- a dialogue with -- with that oversight
- 23 committee, and to -- to introduce concepts around how
- 24 there would be interacting.
- MR. BOB PETERS: And the first

- 1 principle was that economic decisions, on average,
- 2 continue until energy security is binding? I think I
- 3 added a word there, but that's how Manitoba Hydro was
- 4 operating during the drought?
- 5 MR. DOUGLAS SMITH: That was the --
- 6 the articulation of the -- the high level principles
- 7 that -- that Manitoba -- that the RPPS presented to --
- 8 to the committee.
- 9 MR. BOB PETERS: Briefly, what did
- 10 Daymark understand that first bullet to mean?
- 11 MR. DOUGLAS SMITH: Briefly, we
- 12 understand that -- that to mean -- and we talked about
- 13 this in -- in some detail yesterday, that their --
- 14 their modelling, their decision -- their approach to
- 15 determining operations of the -- of their system are
- 16 to optimize the economics within the given constraints
- 17 that they have to operate on at -- at any point in
- 18 time.
- 19 MR. BOB PETERS: The second last
- 20 bullet talks about plan to supply firm load with firm
- 21 resources.
- Do you see that bullet?
- MR. DOUGLAS SMITH: I do.
- 24 MR. BOB PETERS: What is the
- 25 alternative to that?

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1 MR. DOUGLAS SMITH: The -- the
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- 2 alternative to that would be to -- to be open to a
- 3 viametric (phonetic) risk and rely on an uncertain
- 4 market to -- to serve firm commitments.
- 5 MR. BOB PETERS: Did these five (5)
- 6 drought management fundamentals exist before the
- 7 Executive Oversight Committee was struck? Is that
- 8 what I took from your --
- 9 MR. DOUGLAS SMITH: That's my
- 10 understanding, yes.
- 11 MR. BOB PETERS: All right. There's
- 12 also indication on this same page, just below that,
- 13 that during the drought Manitoba Hydro monitored MISO
- 14 market. If we can scroll, please, just to see that's
- 15 -- there's your point.
- 16 What communications with MISO are --
- 17 are being monitored at this point in time?
- 18 MR. DOUGLAS SMITH: So, the monitoring
- 19 was of MISO conditions. Obviously, the MISO market is
- 20 a -- a significant market for balancing their --
- 21 Manitoba Hydro's load and demand. They're -- they're
- 22 generally either selling or purchasing from MISO.
- 23 So, as their -- as -- as Hydro's water
- 24 conditions were becoming more of a constraint, they
- 25 needed to also consider what was happening in their

- 1 significant southern market because they -- they --
- 2 the need for supporting purchases were -- was growing.
- 3 So, that market was taking on an even
- 4 more important role than it already does. I -- I
- 5 don't think they -- this -- that was -- that was not
- 6 intended to state that they all of a sudden started to
- 7 monitoring MISO. MISO is -- is an important component
- 8 of their -- their supply and demand all the time, but
- 9 it became even more critical.
- 10 It was presented to the Executive
- 11 Committee on a regular business, what was -- what was
- 12 occurring. The Executive Committee's presentations
- 13 covered a wide range of -- of topics, including the
- 14 MISO markets and availability of energy to meet their
- 15 -- their projected growing need.
- 16 MR. BOB PETERS: On page 83 of the
- 17 Daymark Exhibit 4 report, another one (1) of the
- 18 activities that you highlighted was -- was the
- 19 increase in energy conservation as the -- as the
- 20 fourth point.
- Do you see that?
- MR. DOUGLAS SMITH: I do.
- 23 MR. BOB PETERS: What -- what does
- 24 that -- what -- what is Daymark writing about there?
- 25 MR. DOUGLAS SMITH: I wouldn't want to

- 1 try to -- to get too specific in -- in terms of
- 2 actions, but -- but my understanding is that as
- 3 inflows decreased there were constraints in terms of
- 4 what -- what they could dispatch and what levels of
- 5 reservoirs they needed in order to ensure that the
- 6 system could continue to operate reliably, and that
- 7 those constraints included -- included conservation
- 8 efforts to -- to preserve water for future.
- 9 MR. BOB PETERS: All right. This
- 10 wasn't -- this wasn't asking customers to turn off the
- 11 lights or turn down the heat. This was --
- MR. DOUGLAS SMITH: Not to my
- 13 knowledge, no.
- 14 MR. BOB PETERS: Do you know if
- 15 Efficiency Manitoba had any involvement with the
- 16 oversight committee or the RPPS?
- 17 MR. DOUGLAS SMITH: I don't have any
- 18 specific knowledge either way.
- 19 MR. BOB PETERS: All right. In Board
- 20 counsels' book of documents, page 27, was a chart that
- 21 reviewed -- was reviewed earlier in the week. Are you
- 22 -- page 27, yes, thank you.
- 23 Are you generally familiar with this
- 24 chart, Mr. Smith?
- MR. DOUGLAS SMITH: Yes.

- 1 MR. BOB PETERS: And lots going on on
- 2 this chart, but one (1) of your answers was that
- 3 Manitoba Hydro was, within their constraints, trying
- 4 to maximize their economic recovery -- or economic
- 5 position relative to exporting energy?
- 6 MR. DOUGLAS SMITH: Yeah. They're
- 7 trying to maximize the -- the value of -- of water.
- 8 That -- that isn't quite the same as -- as maximizing
- 9 the value of exports because the value of storage
- 10 water is a part of their optimization.
- MR. BOB PETERS: And so when we look
- 12 at this chart with that last answer, Mr. Smith, we see
- 13 that in May and in June of 2021, the light green bar
- 14 shows that Manitoba Hydro is exporting considerable
- 15 amounts of off-peak energy, correct?
- 16 MR. DOUGLAS SMITH: I see that.
- 17 MR. BOB PETERS: Did that energy have
- 18 a greater value had it been left in storage?
- 19 MR. DOUGLAS SMITH: The -- the best
- 20 models in that period -- so -- so when they -- when
- 21 they run their model, they are always using a value of
- 22 storage as part of their calculus.
- So I don't -- I don't mean -- I don't
- 24 mean to be trite here, but -- but no because the model
- 25 compared the -- the value of -- of selling versus the

- 1 value of storage given all conditions: reservoir
- 2 levels, conditions throughout their system,
- 3 projections of future flows, as well as monitoring for
- 4 the -- ensuring the maintenance of sufficient end of
- 5 year -- end -- end of fiscal year storage to survive a
- 6 drought in the following year.
- 7 So all of that is -- is occurring
- 8 within the economic dispatch model, and the -- the
- 9 value of the water that comes out is -- is what -- is
- 10 what is planned for unless there are extenuating
- 11 circumstances that come out of the RPPS.
- 12 MR. BOB PETERS: All right. Let's
- 13 turn on that same chart to the months of maybe
- 14 December, January, and into February of 2022.
- 15 You can see that at the bottom?
- MR. DOUGLAS SMITH: Yes.
- 17 MR. BOB PETERS: Do you -- are you
- 18 aware that in say January and February, Manitoba was
- 19 blessed with an abundance of that snow that you
- 20 remember being in Manitoba last time you were here?
- 21 MR. DOUGLAS SMITH: I am aware through
- 22 this review that precipitation was recovering
- 23 throughout the winter months.
- 24 MR. BOB PETERS: And in January and
- 25 February, we had lots of -- lots of snow on the

- 1 ground?
- 2 MR. DOUGLAS SMITH: I -- I've been
- 3 told that, yes.
- 4 MR. BOB PETERS: And then when we look
- 5 to see what's happening in January and February, even
- 6 though we have lots of water in the form of snow on
- 7 the ground, Manitoba Hydro has still high off-peak
- 8 imports, correct?
- 9 MR. DOUGLAS SMITH: Yes, I see that.
- MR. BOB PETERS: And those off-peak
- 11 imports were probably expensive?
- 12 MR. DOUGLAS SMITH: I -- I don't know.
- 13 I certainly don't know sitting here that I -- I can
- 14 agree to that. Prices were certainly moving around a
- 15 lot in -- in the winter, but I think we have a -- a
- 16 chart or two (2) around prices that -- that suggest
- 17 that winter prices were not -- were not as high as --
- 18 as feared or expected.
- 19 MR. BOB PETERS: All right. And it
- 20 looks like it's in May of 2022 when Manitoba Hydro
- 21 gets back into its high levels of off peak exporting,
- 22 correct?
- MR. DOUGLAS SMITH: The exports jump
- 24 dramatically in May of 2022 on this chart, yes.
- MR. BOB PETERS: Because Manitoba

1 Hydro had a lot of water?

2

3 (BRIEF PAUSE)

- 5 MR. DOUGLAS SMITH: Manitoba Hydro had
- 6 a lot of water, and the -- the modelling of the
- 7 projection of -- of all of the complex factors that go
- 8 into determining exports suggested that it was
- 9 appropriately -- appropriate and economic to sell that
- 10 water.
- 11 MR. BOB PETERS: Would it have been
- 12 more economic and more appropriate to reduce the off-
- 13 peak imports and the on-peak imports earlier?
- 14 MR. DOUGLAS SMITH: I think that it
- 15 would require an analysis to -- to make an actual
- 16 determination of that.
- 17 But I also think it's important to --
- 18 to understand or to think about, in the midst of -- of
- 19 that period, Manitoba Hydro is still unclear as to how
- 20 the winter is going to unfold in terms of the
- 21 potential for extreme cold, for storms, for -- for a
- 22 variety of -- of adverse conditions that they have to
- 23 plan for during the winter.
- 24 So that still doesn't -- I can't answer
- 25 your question directly, but I -- I don't think that's

- 1 the only thing that they're considering when they're
- 2 making determinations of -- of buying and selling and
- 3 balancing their system in any given month, especially
- 4 in the winter.
- 5 MR. BOB PETERS: I'm not sure if I
- 6 asked you this, Mr. Smith. If I did, you can tell me
- 7 that.
- 8 Did Daymark determine who or what
- 9 committee at Manitoba Hydro finally determined or
- 10 acknowledged that they were in a drought situation?
- MR. DOUGLAS SMITH: No. I -- we -- we
- 12 did not look for official designation of drought or
- 13 out of drought or --
- 14 MR. BOB PETERS: Was it the RPPS or
- 15 was it the oversight committee or was it a combination
- 16 of them, or was it none -- neither of them?
- 17 MR. WILLIAM HAIGHT: Mr. Peters, I
- 18 think he's answered that question that they didn't
- 19 look into that issue.
- 20
- 21 CONTINUED BY MR. BOB PETERS:
- 22 MR. BOB PETERS: You don't have that -
- 23 an answer for that, then, as your counsel suggests?
- 24 MR. DOUGLAS SMITH: I -- I do not have
- 25 an answer as to who would have or did officially

- 1 designate or -- or if that was part of their process
- 2 to officially say, okay, now we're in drought. That's
- 3 not my understanding of how their process works.
- 4 MR. BOB PETERS: All right. I want to
- 5 turn with you just briefly on the topic of hedging.
- 6 And, Mr. Smith, I think that's also on your score
- 7 card.
- 8 On slide 60 of the Daymark slide deck
- 9 from yesterday, Exhibit DEA-4, on page 60, there's a
- 10 second bullet that suggests there doesn't appear to be
- 11 any distinction between the revenue risks borne by
- 12 purchase transactions versus the revenue risk borne by
- 13 sales transactions.
- 14 Do you see that?
- 15 MR. DOUGLAS SMITH: I do, although I
- 16 will add, the -- the last piece of this, I -- and I
- 17 think I mentioned this briefly yesterday, at least in
- 18 the documented plans and policies, which I think is an
- 19 important caveat to that statement.
- 20 MR. BOB PETERS: And then you talk
- 21 about the sales -- the purchase transactions where
- 22 Manitoba Hydro is purchasing the hedge, correct? Is
- 23 that what you mean in this sentence?
- MR. DOUGLAS SMITH: So, a hedge is a
- 25 forward transaction. So, what our -- understanding of

- 1 what Manitoba Hydro is doing is they're looking ahead
- 2 and saying, we expect to need 'X' quantity of energy,
- 3 either need it and -- need to purchase it or we
- 4 project that we will be selling it.
- 5 And when they do that, they -- they
- 6 look ahead, and they see that they are -- that their
- 7 results, that their -- their financial results are,
- 8 therefore, subject to volatility of the market.
- 9 If -- if I expect to sell a hundred
- 10 megawatt hours, I don't know -- next month, I don't
- 11 know for certain what price I will get, so I am
- 12 subject to that volatility.
- 13 If I lock in price for some portion of
- 14 that, if I purchase ahead, then for that quantity that
- 15 I have purchased, I am not longer subject to
- 16 volatility in the spot market. That is what we mean
- 17 and what they are referring to when they hedge.
- 18 MR. BOB PETERS: But the revenue risk
- 19 on a purchase is known, is it not? You know the price
- 20 you're going to pay in the future for that -- for that
- 21 hedge whether you take physical delivery or just
- 22 financial delivery?
- MR. DOUGLAS SMITH: If you enter into
- 24 a hedge, you know the -- the price. You -- you
- 25 negotiate with that counter party and you have a

- 1 price. At that point, you know that.
- 2 Prior to doing that though, prior to
- 3 engaging with a counter party to purchase ahead -- so
- 4 if I'm sitting in October and I'm looking at the
- 5 winter months and saying I expect to need to purchase
- 6 some amount of energy from the market to meet my
- 7 demand, I don't have enough water, I don't project
- 8 that I will have enough water, so I need -- need to --
- 9 to purchase that energy in those months ahead, in the
- 10 winter, sitting there in October, I do not know what
- 11 price I will be paying for that water.
- MR. BOB PETERS: Because nobody knows
- 13 what the future market price is going to be?
- 14 MR. DOUGLAS SMITH: Correct.
- 15 MR. BOB PETERS: Okay. So -- so, the
- 16 purchase -- sorry, the purpose of a purchase hedge is
- 17 to provide certainty of what that -- what that revenue
- 18 risk is to the Company?
- 19 MR. DOUGLAS SMITH: Yeah, that's -- I
- 20 think that's a fair summation. It's -- it's to --
- 21 it's to eliminate that -- that pricing risk.
- 22 MR. BOB PETERS: All right. We're
- 23 still on the public record, Mr. Smith. And I just
- 24 want to make sure we remind ourselves that.
- 25 You -- you contrast that in this second

- 1 bullet to deal with sales transactions, correct?
- 2 MR. DOUGLAS SMITH: What we just
- 3 talked about applies to sales as well. So, if I -- to
- 4 just do this briefly. If I'm projecting ahead for a
- 5 few months and I see that I expect to make some block
- 6 of sales, then sitting -- if I'm sitting -- and just -
- 7 just to use the same months, if I'm sitting in
- 8 October and I'm expecting to sell in the winter,
- 9 probably not happening, but -- but just to use the
- 10 same -- same time frame, sitting in October, I don't
- 11 know what price I will get for that energy that I am
- 12 projecting to sell forward. So my financials are
- 13 still subject to the uncertainty of the market.
- 14 If I sell ahead, if I find a counter
- 15 party that wants to buy my energy ahead and I sell for
- 16 those months, I have now ensured Manitoba Hydro
- 17 against that future volatility. I now know my price
- 18 for a sale of that energy, so, in that sense, it's the
- 19 same activity.
- 20 What I -- what we were getting at in --
- 21 in this comment is the -- the risk to Manitoba Hydro's
- 22 financials is asymmetric. It is not the same in a
- 23 purchase versus a sale.
- 24 MR. BOB PETERS: All right. At the
- 25 risk of Mr. Haight and Ms. Fernandes snapping a little

- 1 bit to attention on this, and a 'yes' or 'no' answer
- 2 would be sufficient for my question, I suggest, but
- 3 did you find that Manitoba Hydro was entering into
- 4 sales transactions for the drought year?
- 5 MR. DOUGLAS SMITH: No.
- 6 MR. BOB PETERS: Thank you. I want to
- 7 turn to page 45 of Board counsels' book of documents.
- 8 And if you need a copy for the plane ride home, we can
- 9 get you one. There's a chart on this page that talks
- 10 about the difference between using forty (40) years of
- 11 flow data versus a hundred years of flow data.
- 12 You're generally familiar with that?
- MR. DOUGLAS SMITH: Yes.
- 14 MR. BOB PETERS: We know that Manitoba
- 15 Hydro didn't do any retrospective analysis to
- 16 determine which gave a more accurate forecast.
- 17 You're aware of that?
- MR. DOUGLAS SMITH: Yes.
- 19 MR. BOB PETERS: Did Daymark actually
- 20 test forty (40) years versus a hundred years to
- 21 determine which one was more accurate?
- MR. DOUGLAS SMITH: No.
- 23 MR. BOB PETERS: But you did hear from
- 24 Manitoba Hydro that, according to Manitoba Hydro, the
- 25 forty (40) year record captures about 95 percent of

- 1 the flow variability of the hundred plus year flow
- 2 record?
- 3 MR. DOUGLAS SMITH: Correct.
- 4 MR. BOB PETERS: Does Daymark believe
- 5 there's any benefit to doing an analysis to see which
- 6 methodology provides the more accurate forecast?

7

8 (BRIEF PAUSE)

- 10 MR. DOUGLAS SMITH: Well, I'll start
- 11 by acknowledging I am not a hydrological engineer or a
- 12 hydrology expert.
- I -- I think the way I would answer
- 14 that is, in -- in any change in systems to the extent
- 15 possible, investigating the actual results of that
- 16 change, the -- the efficacy of -- of a change, is
- 17 always valuable. It's not always easily possible,
- 18 especially when you're talking about a forecasting
- 19 into the future.
- 20 Typically, evaluating forecasting
- 21 methodologies occurs over a long period of time. You
- 22 can't look at any one result and conclude that it's
- 23 better or worse. In other words, there's variability.
- 24 There's uncertainty.
- You could have a better method that

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1 produces a worse result in some particular
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- 2 circumstance and would not be indicative that that
- 3 result was -- that that method was -- was improper.
- 4 So, you need to be careful in any
- 5 circumstance where you're evaluating forecasting
- 6 methodologies, how you approach that evaluation.
- 7 MR. BOB PETERS: And is it Daymark's
- 8 understanding that the physical based inflow
- 9 forecasting methodology was only developed after the
- 10 last GRA that brought you to Manitoba?
- MR. DOUGLAS SMITH: That is my
- 12 understanding, yes.
- MR. BOB PETERS: So, that would mean
- 14 there would be approximately five (5) years only of
- 15 comparable years that could be analyzed.
- 16 Is that correct?

17

18 (BRIEF PAUSE)

- 20 MR. DOUGLAS SMITH: I -- I don't think
- 21 I'm qualified to -- to take it further in terms of how
- 22 they should or could evaluate those two (2) methods.
- MR. BOB PETERS: All right. Let's
- 24 turn to Manitoba Hydro's uncontracted energy and
- 25 capacity. And maybe not to scale I like, but Ms.

- 1 Schubert, Manitoba Hydro had filed Exhibit 30, which
- 2 was their slide presentation when they testified.
- 3 And I would ask if you could find
- 4 Exhibit Manitoba Hydro 30 and, particularly, page 28
- 5 probably is high level enough, even though it's -- the
- 6 scale doesn't do it justice.
- 7 But you're generally familiar with this
- 8 one as well?
- 9 MR. JEFFREY BOWER: This is Jeff
- 10 Bower. We saw this yesterday and -- but we're not --
- 11 like I testified to yesterday, not very familiar with
- 12 what -- what goes on behind the numbers here. But --
- 13 but I have seen this before.
- 14 MR. BOB PETERS: All right. And, in
- 15 fact, I think you had some kind of a chart in your own
- 16 presentation, but this one shows both energy and
- 17 capacity, right?
- 18 MR. JEFFREY BOWER: Yes. We -- we had
- 19 some similar figures. Again, the -- the data behind
- 20 it -- since I haven't reviewed the data behind this,
- 21 it's hard to know how well it aligns with -- with what
- 22 was in our report.
- MR. BOB PETERS: We've got the data
- 24 behind it, so I'm not going to go there with you, Mr.
- 25 Bower. You can relax about that.

- 1 What I'm suggesting -- if we look to
- 2 the right-hand side of the screen, we see a line of
- 3 dependable supply in red. Do you see that?
- 4 MR. JEFFREY BOWER: Yes.
- 5 MR. BOB PETERS: And Daymark
- 6 understands that that means that every gigawatt hour
- 7 of energy below that line is coming from Manitoba
- 8 Hydro's dependable supply?
- 9 MR. JEFFREY BOWER: Yeah. That would
- 10 be my interpretation of that line.
- MR. BOB PETERS: And Manitoba Hydro's
- 12 dependable supply is the supply that Manitoba Hydro
- 13 would have available for the driest year on record?
- 14 MR. JEFFREY BOWER: Yes, that's --
- 15 that's our understanding.
- 16 MR. BOB PETERS: All right. And so,
- 17 if there is -- if there are -- if there is energy
- 18 below that red line that is not used by Manitobans or
- 19 is not part of dependable exports, it's still
- 20 dependable energy that would be available, correct?
- MR. JEFFREY BOWER: Yes.
- 22 MR. BOB PETERS: And above that red
- 23 line, that's when we have surplus water -- maybe like
- 24 the year -- last year and this year -- we have water
- 25 that is somewhat above the dependable supply and it's

- 1 above average or even up to maximum.
- 2 That's all what we call opportunity
- 3 water or water that would be sold mostly for
- 4 opportunity sales into the export market?
- 5 MR. JEFFREY BOWER: Yes
- 6 MR. BOB PETERS: Is it correct that
- 7 Manitoba Hydro's most valuable product to sell for
- 8 energy is dependable energy?
- 9 MR. JEFFREY BOWER: Currently, the...

10

11 (BRIEF PAUSE)

- 13 MR. JEFFREY BOWER: I think we can --
- 14 we can say -- we're conferring just about getting into
- 15 details and confidentiality of -- of contract prices
- 16 and that sort of thing.
- 17 So without -- without getting into any
- 18 of that, I think it's -- it's understood that the --
- 19 the dependable supply is -- is more valuable than
- 20 opportunity supply currently.
- 21 MR. BOB PETERS: All right. And with
- 22 dependable energy being more valuable, the Board is
- 23 hearing, in this Application, that Manitoba Hydro's
- 24 financial forecasts give dependable energy the same
- 25 price, the same value as average supply or even up to

- 1 non-dependable supply, correct?
- 2 MR. JEFFREY BOWER: For a portion that
- 3 is uncontracted, that -- that's correct.
- 4 MR. BOB PETERS: Yes. Thank you.
- 5 Something that -- maybe I'll -- in Daymark's view,
- 6 when Daymark was last in Manitoba at the 2017/18 GRA -
- 7 and Mr. Bower, you probably were left back in Boston
- 8 -- but at that time, Daymark was critical of Manitoba
- 9 Hydro for not extracting some premium on account of
- 10 that dependable energy.
- 11 Would that have been right, Mr. Smith,
- 12 Mr. Athas?
- 13 MR. DOUGLAS SMITH: I think in that
- 14 GRA, we were -- we were critical that there was no
- 15 forecast of -- of any premium or additional dependable
- 16 sales.
- 17 MR. BOB PETERS: All right. And I
- 18 take it from the answers you've given to my colleagues
- 19 who have asked you questions on this, and I don't want
- 20 to repeat -- have you repeat any of those answers --
- 21 but the -- the biggest uptake is that MISO rules
- 22 having -- have not meaningfully changed where Manitoba
- 23 Hydro's non-emitting dependable energy would be valued
- 24 higher than other resources.
- 25 MR. DOUGLAS SMITH: I think that's a -

- 1 a significant factor. And in the one case where it
- 2 is changing, the seasonal accreditation, there's
- 3 significant uncertainty as to -- or -- or an apparent
- 4 high potential that it is detrimental to Manitoba
- 5 Hydro's ability to monetize some of that -- firm --
- 6 those firm attributes.
- 7 MR. BOB PETERS: It's too early to
- 8 know what's happening in MISO. You've talked --
- 9 you've just talked about capacity, but the same
- 10 applies for energy.
- It's just too early -- there's too many
- 12 moving parts right now?
- MR. DOUGLAS SMITH: Yes.
- 14 MR. BOB PETERS: And those moving
- 15 parts are being lubricated by the Inflation Reduction
- 16 Act that provides strong incentives to develop local
- 17 energy resources, mostly renewables, such as wind and
- 18 solar?
- 19 MR. DOUGLAS SMITH: The potential
- 20 competitors for whatever comes out of the -- the
- 21 moving MISO market rule parts are being lubricated
- 22 currently by the IRA. And so, in addition to just the
- 23 uncertainty about market rules, you have uncertainty
- 24 about what competition Manitoba Hydro may face in the
- 25 future.

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1 MR. BOB PETERS: All right. Let's --
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- 2 some of the panel members, the Board members were
- 3 asking you to look a little bit in the future, as were
- 4 my colleagues. So -- so let's -- let's put our --
- 5 THE CHAIRPERSON: Mr. Peters, you're -
- 6 you're at about ten (10) minutes.
- 7 MR. BOB PETERS: I'll be less.
- 8 THE CHAIRPERSON: Okay.

- 10 CONTINUED BY MR. BOB PETERS:
- MR. BOB PETERS: Let's put on our
- 12 binoculars and let's look into the future, and maybe
- 13 it's a telescope, but you told one of my colleagues
- 14 who asked you questions yesterday that when the sun
- 15 shines and the wind blows, energy is available in the
- 16 MISO market, usually plentifully?
- 17 MR. JEFFREY BOWER: Yes. For wind and
- 18 solar resources, those conditions are -- are required
- 19 and there's a lot of wind and solar coming online in
- 20 MISO.
- 21 MR. BOB PETERS: And the sun might be
- 22 shining and the wind blowing at a time when there's
- 23 surplus energy available, correct, Mr. Bower?
- 24 MR. JEFFREY BOWER: Surplus -- maybe
- 25 you can, kind of, clarify what you mean?

- 1 MR. BOB PETERS: Well, with the --
- 2 with the solar and the wind, that energy is produced
- 3 because there's nothing else to -- they can't do
- 4 anything else with it. So they produce it and it may
- 5 be surplus to what's needed.
- 6 MR. JEFFREY BOWER: In -- in MISO,
- 7 there -- there -- especially as more (INDISCERNIBLE)
- 8 comes online, there could be increasing conditions
- 9 where there's more energy being generated by wind and
- 10 solar than can be used at that time.
- MR. BOB PETERS: And yesterday, there
- 12 was some discussion that -- that, at some point,
- 13 energy can be stored in, what we -- what's been
- 14 called, a battery. Have I heard that right?
- MR. JEFFREY BOWER: Correct.
- 16 MR. BOB PETERS: And that energy
- 17 storage in battery is -- when you think of the little
- 18 Energizer bunny, that's the battery. It's -- it's
- 19 taking it and putting it into a physical container
- 20 that can be used at a later date.
- 21 MR. JEFFREY BOWER: Yes, for, you
- 22 know, chemical battery -- yeah.
- 23 MR. BOB PETERS: So if we assume that
- 24 the wind stops and the sun doesn't shine, but somebody
- 25 has put some of that surplus energy into a battery,

- 1 then the energy can be withdrawn from the battery at
- 2 that time, correct?
- 3 MR. JEFFREY BOWER: Yes.
- 4 MR. BOB PETERS: Would you -- would
- 5 Daymark agree that energy coming from battery storage
- 6 will be valued higher than energy from renewables
- 7 generation?

8

9 (BRIEF PAUSE)

- 11 MR. JEFFREY BOWER: I'm -- I'm
- 12 thinking about the -- the definition of the term
- 13 'value'. I think the -- how -- how a battery -- how
- 14 energy from a battery is priced in the market. How --
- 15 how it -- it bids into the market, whether it sets
- 16 prices I -- I think is a -- is a -- something that --
- 17 that would probably evolve over time.
- 18 But the fact that it is available to
- 19 sort of load when renewable resources are not of --
- 20 you know, able to generate -- is a -- is a quality
- 21 that will be valued.
- 22 MR. BOB PETERS: And so, conceptually,
- 23 you've got this valuable energy coming from battery
- 24 storage, that is actually solving a capacity issue for
- 25 those renewable resources that generate electricity

- 1 only when the sun shines and the wind blows.
- 2 MR. JEFFREY BOWER: That is -- provide
- 3 an important component of -- of capacity.
- 4 MR. BOB PETERS: But that adds to the
- 5 value of the energy that would be coming from battery
- 6 storage.
- 7 MR. JEFFREY BOWER: It -- it adds to
- 8 the value of the battery storage, but I think I just
- 9 didn't -- didn't distinguish in between, you know, the
- 10 definition of energy and capacity, but -- but it adds
- 11 to the value over the resource.
- MR. BOB PETERS: Did Daymark quiz
- 13 Manitoba Hydro, and again you're on the public record,
- 14 as to whether they were knocking on doors of various
- 15 utilities looking to sell some of the surplus capacity
- 16 that is seen on the left-hand side of -- of page 28 of
- 17 Manitoba Hydro's slide presentation?
- 18 MR. JEFFREY BOWER: I think -- you
- 19 know, it's -- it's appropriate to say in the public
- 20 session that we had conversations with them about --
- 21 about what they were -- actions they were -- they were
- 22 taking to -- to market their capacity.
- 23 MR. BOB PETERS: All right. Maybe
- 24 that's a matter that we'll talk about earlier this --
- 25 or -- this -- early this afternoon, Mr. Bower then.

- I was just trying to get at whether or
- 2 not it's -- this surplus capacity is it, you know, is
- 3 it listed on Kijiji or is somebody out there actually
- 4 trying to sell it? And sending the sales people out
- 5 to -- to find a market for it and we'll talk about
- 6 that then in the -- in the next session, if we can.
- 7 Mr. Chair, Board members, I'd like to
- 8 thank Messrs Smith, Bower and Athas for their answers
- 9 to my questions. Those -- those answers conclude my
- 10 questions of this witness panel (INDISCERNIBLE)
- 11 record.
- 12 THE CHAIRPERSON: Mr. Haight, is there
- 13 any re-examination?
- MR. WILLIAM HAIGHT: No re-
- 15 examination.
- 16 THE CHAIRPERSON: Okay. Thank you.
- 17 So, this concludes the public session for today. For
- 18 those who are on the live stream, we will be
- 19 discontinuing the live stream. We wish you a nice
- 20 long weekend and we will be resuming in the morning on
- 21 Tuesday.
- 22 For those who are in the room for the
- 23 CSI session, we'll take the morning break for fifteen
- 24 (15) minutes and we'll make sure that the -- the live
- 25 stream's cut and then we'll go to -- to CSI first to

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1136
 1 deal with the -- one of the Manitoba Hydro panels.
 2
                   Thank you.
 3
4 --- Upon adjourning at 10:03 a.m.
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   Certified Correct,
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14 Wendy Woodworth, Ms.
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