

MANITOBA PUBLIC UTILITIES BOARD

Re: MANITOBA HYDRO

NEEDS FOR AND ALTERNATIVES TO
REVIEW OF MANITOBA HYDRO'S
PREFERRED DEVELOPMENT PLAN

Regis Gosselin - Chairperson

Marilyn Kapitany - Board Member

Larry Soldier - Board Member

Richard Bel - Board Member

Hugh Grant - Board Member

HELD AT:

Public Utilities Board

400, 330 Portage Avenue

Winnipeg, Manitoba

April 25, 2014

Pages 8200 to 8453



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1 --- Upon commencing at 9:05 a.m.

- 3 THE CHAIRPERSON: I believe that we can
- 4 commence today's proceedings. So without further ado,
- 5 I'll ask Mr. Peters, please, could you introduce
- 6 today's events? Thank you.
- 7 MR. BOB PETERS: Yes, thank you, Mr.
- 8 Chairman. Good morning. Good morning, ladies and
- 9 gentlemen. Welcome. This morning, scheduled through
- 10 the facilitation of CAC (Manitoba), is an Elders and
- 11 traditional land use panel. They've gathered before --
- 12 before the Board this morning. To introduce them and
- 13 to assist in the presentation of their materials will
- 14 be Ms. Craft, seated to my left, and to her left, also,
- 15 Ms. Pastora Sala, who will be assisting.
- 16 There's no other matters of business
- 17 this morning, Mr. Chairman and panel members, so I
- 18 suggest we turn it over to Ms. Craft to -- to commence
- 19 the proceedings and to introduce -- introduce our
- 20 panel. Thank you.
- THE CHAIRPERSON: Thank you, Mr.
- 22 Peters. Bonjour, Madam Craft.
- MS. AIMEE CRAFT: Bon matin, M.
- 24 President. Good morning, panel members and to everyone
- 25 in the room. At the first order of business we would

8206 request the opportunity for Elder Flora Beardy to share an opening prayer. 3 (OPENING PRAYER) 5 6 MS. AIMEE CRAFT: Before we proceed to introductions, Mr. Chair, I just want to note for the 7 record that the panel is of traditional land users and Elders. We have someone who's going to explain to us a bit -- bit of the difference between those two (2) 10 11 names that we've used to describe this panel. 12 And both the Elders and traditional land 13 users that are here today represent three (3) of the 14 Northern communities that are partners in the 15 hydroelectric developments that are under consideration 16 by this Board. And I wanted to note for the -- the Board that they have been provided with tobacco and 17 18 have been asked to share their knowledge, stories, and 19 histories with you today and, in accordance with the protocol, have been offered that -- that tobacco. And 21 those are the -- the red ties that you'll see before 22 you on the table, and -- and that it will be used for the -- the truth of the -- the words that are spoken 24 today. 25 As Mr. Peters mentioned yesterday, this

- 1 panel met. They are generally not strangers to each
- 2 other, but we will be introducing them. And -- and
- 3 some of them didn't know each other very well before
- 4 having the opportunity to sit together. Although they
- 5 have come together and will be offering a PowerPoint
- 6 presentation that we would ask be marked as CAC Exhibit
- 7 64, but it is a PowerPoint presentation on behalf of
- 8 the -- the panel members that are sitting here.

9

10 --- EXHIBIT NO. CAC-64: PowerPoint presentation

11

- MS. AIMEE CRAFT: As well as an Exhibit
- 13 CAC 64-1, which is a list of Cree words that are meant
- 14 to assist you as the panel members may be speaking in
- 15 their language, using certain words in their language,
- 16 and this is a tool for you to -- to utilize to help you
- 17 along in understanding some of the words and concepts
- 18 that may be used today.

19

20 --- EXHIBIT NO. CAC-64-1: List of Cree words

- MS. AIMEE CRAFT: The panel has also
- 23 asked me to communicate that they come here together in
- 24 -- in reflecting two (2) particular values that will be
- 25 guiding their comments today, and those are respect and

- 1 truth. It was very important for them, sitting
- 2 together, to acknowledge that those were the
- 3 foundations of -- of what they would be doing today.
- So I -- I give those to you as -- as
- 5 opening remarks for this panel and -- and ask that Mr.
- 6 Ivan Moose introduce each of the panel members. Mr.
- 7 Moose will be acting as a facilitator for this panel.
- 8 So on the mention of those Cree words, he may be doing
- 9 some translation. He may offer translation for some of
- 10 the -- the Elders' comments, provide some reminders,
- 11 and assist with placenames and -- and other things that
- 12 the Elders and traditional land users may request of
- 13 him during -- during the presentation today.
- 14 So with that, I'll -- I'll turn it over
- 15 to Mr. Moose for the -- the brief introduction of the
- 16 panel members, and then we'll do a swearing in of each
- 17 of the -- of the panel members.
- 18 ELDER IVAN MOOSE: Good morning. We --
- 19 we appreciate the opportunity to speak. We welcome
- 20 everybody that's here. I will not be too long as we
- 21 have only given like two (2) hours. We are very glad
- 22 for the time to be heard. So I'll start introductions.
- 23 From my right here, this is Elder Jack
- 24 Massan. He's a lifetime resource users -- user. He
- 25 worked with all the -- he worked with the projects in

- 1 plumbing and piping. He's retired now, but he's a
- 2 full-time resource user in his trap line area.
- 3 Immediately to his right is his wife. She's a teacher.
- 4 Her name is Christine Massan. She's from Fox Lake.
- 5 And next to...

6

7 (BRIEF PAUSE)

- 9 MR. IVAN MOOSE: And next -- oh, there
- 10 we go. I can hear myself. So, sorry about that.
- 11 Okay.
- 12 We'll move along to Ila, Ila Disbrowe,
- 13 right, not Disbrowe, okay, Disbrowe, from TCN. She's a
- 14 traditional land user. Immediate to his right -- from
- 15 her right is Robert Spence. He's a -- he's from TCN.
- 16 He's a trapper, hunter, resource user, traditional
- 17 fisherman. He's an artist, and he does art work of
- 18 welding and carving and painting. He's also a
- 19 traditional land user.
- 20 Next to him is Elder Flora Beardy, from
- 21 York Factory. She just told me to introduce her as
- 22 Elder, but she does trap and hunt. Next to her is Noah
- 23 Massan, Elder Noah Massan from Fox Lake. He's a trap
- 24 line holder, trapper, hunter, fisher -- fisherman. He
- 25 worked with all the projects right from day 1 as a --

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- 1 in various -- various positions, but his main -- his
- 2 main -- he was as an operator. He worked in all the
- 3 projects. He knows about the projects they worked on.
- 4 He's a trap line holder, and his trap line is going to
- 5 be dearly affected with the Keeyask project.
- And my name is Ivan Moose. I'm from Fox
- 7 Lake. To use a -- use an old friend of mine's term,
- 8 I'm a dissident. Actually we're not dissidents. We're
- 9 people that care for our people. We're worried about
- 10 our children and grandchildren. We were taught by our
- 11 ancestors not to -- not to be -- not to allow people to
- 12 walk over us, and we've been allowing that too long.
- 13 And we've been trying to fight it as individual First
- 14 Nations, but as we learned -- as we know -- as you all
- 15 know, we're all from the First -- York Factory First
- 16 Nation but divided years ago by the government. We are
- 17 still one (1) nation, and that's what we intend to
- 18 stand together as to fight our cause.
- We're -- we are very caring, giving
- 20 people, but un -- unfortunately, our caring and our
- 21 giving has been taken advantage of by projects that are
- 22 destroying our lands and our -- all the resources we
- 23 have, with no benefits to our people whatsoever.
- 24 So basically, what we're here to do is
- 25 to -- I mean, we come here to tell you what we feel

- 1 from our hearts, which is the truth, that you have to
- 2 know what is being done to our land is not what we
- 3 want, about the project, the Bipole, whatever project
- 4 it is.
- 5 Our people are suffering very bad. I
- 6 know half -- half these people that sit here have not
- 7 been up to our area. They haven't seen the conditions
- 8 we live, or the -- or the condition of our lands, our
- 9 homes, or whatever. You know, they sit here and
- 10 they're told things by people that work for them who
- 11 have no idea of how we live, how we're being dest --
- 12 destroyed by these projects.
- So we're just -- we're just here to tell
- 14 you the truth. We're telling the other side of the
- 15 coin. Enough lies, time for truth. Sorry to say that,
- 16 but it -- it's how it is. Thank you.
- 17 MS. AIMEE CRAFT: At this time we'll do
- 18 the affirmations for the witnesses, Mr. Chair.
- 19
- 20 CAC ELDERS AND TRADITIONAL LAND USERS PANEL:
- NOAH MASSAN, Affirmed
- 22 ROBERT SPENCE, Affirmed
- 23 FLORA BEARDY, Affirmed
- 24 ILA DISBROWE, Affirmed
- 25 CHRISTINE MASSAN, Affirmed

8212 JACK MASSAN, Affirmed 1 2 IVAN MOOSE, Affirmed 3 EXAMINATION-IN-CHIEF BY MS. AIMEE CRAFT: 5 MS. AIMEE CRAFT: Just as a -- an opening remark to the PowerPoint, and -- and I have to 6 7 admit I'm a glorified clicker of this PowerPoint presentation, so my comments are very brief to start, which is that this PowerPoint will be presented in 10 essentially three (3) time frames to guide the 11 discussion on socioeconomic impact and -- and benefits 12 to the -- the communities and the people. 13 And the -- we're going to discuss things 14 not in a linear fashion. We're actually going to start 15 with the present. We're going to talk about the current state within the three (3) communities that the 16 panel members represent. We're going to talk a bit 17 18 about the past, but we're not going to dwell on -- on 19 the past. We're going to speak about it in terms of context and then turn to the future and -- and focus on 21 the future and -- and benefits and impacts in -- in 22 that time frame. 23 And with that, we'll start with just a 24 brief introduction to each of the communities. 25 Now, Fox Lake Cree Nation, it says here,

8213 is over a 1,000 kilometres north of Winnipeg and has a population of approximately a thousand members living in Gillam and Bird. 3 And, Mr. Moose, can you confirm that that's correct? 6 MR. IVAN MOOSE: I was going to check on that and I forgot, but we'll have to go with that, I 7 quess. MS. AIMEE CRAFT: Does it sound right 9 10 to you? 11 MR. IVAN MOOSE: That sounds right. 12 MS. AIMEE CRAFT: Okay. Thank you. 13 And York Factory First Nation -- this question is for you, Ms. Beardy -- is approximately 1,000 kilometres 14 15 north of Winnipeg on the southeast shore of Split Lake 16 and has a population of roughly five hundred (500) people, and was relocated from Hudson's Bay coast to 17 18 the current location at York Landing in 1957. 19 Is that right? 20 21 (BRIEF PAUSE) 22 23 ELDER FLORA BEARDY: That sounds right. 24 25 MS. AIMEE CRAFT: And to Tataskweyak

- 1 Cree Nation, also known as Split Lake, Ms. Disbrowe, is
- 2 located on the north shore of the Nelson River,
- 3 approximately 900 kilometres north of Winnipeg, and
- 4 there's an on-reserve population of about twenty-two
- 5 hundred (2,200) people with another eleven hundred
- 6 (1,100) off reserve.
- 7 Is that correct?
- 8 MS. ILA DISBROWE: And that's more --
- 9 more on reserve.
- 10 MS. AIMEE CRAFT: Okay. And these are
- 11 the official numbers that we've taken from INAC
- 12 website, but roughly around -- around that. And
- 13 Tataskweyak, or TCN, and War Lake have formed a
- 14 partnership for purposes of Keeyask, which is known as
- 15 the Cree Nation Partners.
- 16 Is that correct?
- MS. ILA DISBROWE: Yeah.
- MS. AIMEE CRAFT: And the next slide
- 19 here is a picture of -- of you yesterday, the panel
- 20 members. And this is an opportunity -- at this time, I
- 21 think I'd like to ask you take the -- the opportunity
- 22 to explain to the Board why it is that you're here, why
- 23 it is that you're speaking on this issue.
- And -- so maybe we'll start with Mr.
- 25 Moose. I know you've given us some of your

- 1 introductory comments, but if you could start leading
- 2 this discussion, and we'll proceed to the other panel
- 3 members.
- 4 MR. IVAN MOOSE: Good morning, again.
- 5 I got involved in this a little while -- a little while
- 6 ago. And to answer, like, why I'm here is that I've
- 7 been working with the project too -- with -- for First
- 8 Nation, but I hadn't seen any movement forward
- 9 regarding any benefits of any kind to our First Nations
- 10 or Fox Lake Cree or other First Nations.
- And it hurts to see all the damage being
- 12 done. And it's hurting our land and our people. And I
- 13 decided it's time to start speaking up against it.
- 14 I've been forward. I've signed agreements on a premise
- 15 that we're going to get -- a promise that we're
- 16 supposed to get benefits, which we didn't and haven't
- 17 received to date. There been a lot of promises. I
- 18 have loads of papers sitting at home filled with
- 19 promises that never panned out.
- 20 So I thought, as my grandparents used to
- 21 say, You got to fight for your land. They did foresee
- 22 what was coming. We were told; we were warned earlier,
- 23 long ago. Now, we're here as a group, because we got
- 24 to -- we got to start -- start standing as a nation
- 25 again, as we were, to fight for what is ours: our

- 1 lands, our people, and our children, and our
- 2 grandchildren.
- And we want to speak as one (1), rather
- 4 than separately. We want to speak as one (1) unit.
- 5 That's how we -- we intend to speak, as a unit for our
- 6 people, for people that can't speak themselves or for
- 7 people that are being taken advantage of.
- 8 MS. AIMEE CRAFT: Thank you, Mr. Moose.
- 9 Mr. Massan -- Mr. Jack Massan...?
- 10 ELDER JACK MASSAN: Yeah. Jack Massan.
- 11 I -- I was raised in Gillam and all that area there and
- 12 -- sorry. And they're -- the rivers and -- the rivers
- 13 already destroyed early. And we use to call that,
- 14 Nelson River, Kichesippi, what means 'The Great River'.
- 15 Now, we used to look after everything that is -- that
- 16 is in that river. But now we can't even do anything
- 17 about it because it's been controlled with all these
- 18 dams that are built.
- 19 They used to -- that river used to
- 20 control by itself. We used to look after all the fish
- 21 and whatever that was in that -- in that water, even
- 22 our land. And now it's just a meek old river now, it's
- 23 because controlled by humans. And I don't know, it
- 24 just -- that river is just so dirty that you can't even
- 25 see the bottom. Before, you couldn't even see the --

- 1 we could see the -- the bottom of that river, but now
- 2 we can't even see anything, so.
- And I've been asking these questions
- 4 when we're in meetings, How dirty is that river and
- 5 what's the turbidity on that river? But nobody ever
- 6 mentioned how dirty that water is. And it's been --
- 7 oh, I don't know how long we've been having these
- 8 meetings. And now they're starting to build a couple
- 9 more dams.
- 10 And I asked another question. I said,
- 11 Instead of building these two (2) dams, why don't they
- 12 put higher or bigger generators so they can generate
- 13 more power that they -- that they want for the other --
- 14 these two (2) dams that they're building? But they --
- 15 they give me no answer. The only answer they gave me
- 16 was that they need more water.
- 17 And I -- so I told them, The water --
- 18 you can see the spillway. The water's always wide
- 19 open, just -- just the spillways in the summertime.
- 20 And why would they need more water? And just a big --
- 21 bigger generators on those. Take the small ones out of
- 22 there, bigger generators because they need more power.
- 23 Well, no answer on that.
- 24 And all these -- the waters exist, the
- 25 air has always been there, well, about seventy-two (72)

- 1 years. Now it's just -- the forest is just so -- you
- 2 can't even -- I can't even see what -- how it was
- 3 before. I mean, just -- before, it was just -- it was
- 4 nice. You know, that's where we had our food from.
- 5 And now, there's the thing with the hydro, they're
- 6 putting our hydro -- our -- our bills higher just so
- 7 they can destroy that water, that we're more -- we're
- 8 paying to -- they're taking money off us to destroy the
- 9 water -- the river again. And it just -- I just
- 10 can't...
- 11 They have been -- and they're putting --
- 12 I got the trap line there. They're putting Bipole III
- 13 right through my trap line. And they already got a
- 14 transmission line going from Gillam to Churchill, right
- 15 through my line. Now they're going to have -- destroy
- 16 it again. So it just -- it just don't seem right for
- 17 me.
- 18 Like I said, I was born and raised right
- 19 around that area. But I don't know if your people ever
- 20 been in the bush or have you ever been in the water
- 21 when you knew how the bush is. I don't know how many
- 22 of you people ever been in -- in the forest and go
- 23 hunting or trapping or fish. Just -- that's why I'm
- 24 here. I just -- I have to say something about it, so.
- 25 We've been fighting over this for the last, I don't

- 1 know, at least twenty (20), thirty (30) years now.
- 2 Before -- before -- when Hydro came in
- 3 there, they didn't even say anything about it. They
- 4 just destroyed the whole -- the whole thing, flooded --
- 5 flooded the whole area with the trees underneath. Now,
- 6 all those trees are coming back up. It just -- I just
- 7 can't -- I don't think it's -- that's all I have to
- 8 say. I mean, it just -- I just can't -- I don't know.
- 9 It's -- it's up to you now, I guess.
- 10 MS. AIMEE CRAFT: Thank you, Mr.
- 11 Massan. We'll have an opportunity to come back to some
- 12 of those things in more detail and with some images
- 13 that -- that you've shared.
- 14 Ms. Massan...?
- 15 ELDER CHRISTINE MASSAN: Hello. Thank
- 16 you for giving me this opportunity to speak on behalf
- 17 of not just ourselves, but our children and
- 18 grandchildren, and those people that are gone home
- 19 ahead of us. Why we are here and why we speak; we are
- 20 here to tell you the truth. We're going to speak
- 21 honestly from our hearts to try to make you understand
- 22 on why this means so much to us.
- I have watched some of the most
- 24 beautiful land being destroyed for the purposes of
- 25 power. Most of it had been done without any

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- 1 consultation, but now there is some consultation to a
- 2 certain point. And that part is good.
- I hope to make you understand -- or we
- 4 hope to make you understand what it means to us to live
- 5 in harmony. Now, water was given to us years -- a long
- 6 time ago and years, years ago. The water was clean and
- 7 was flowing, and was filled with fish and other things
- 8 that we can eat. Today, you already heard how dirty,
- 9 how thick the water is. Fish are dying.
- 10 Our aski is the same thing. They're
- 11 plowing through, which I -- I have to think, and I
- 12 believe I may be right, but the corridors that they are
- 13 making for the Bipole III are much too wide. I believe
- 14 that if they would have done further study on more
- 15 basic ways to help save and preserve what we have, they
- 16 would have come up with something better instead of the
- 17 -- the corridors they have running through all our
- 18 forests. They're going in every direction now.
- 19 Before, it was beautiful to go for a
- 20 ride from the Gillam through Fox Lake Reserve on to
- 21 Conawapa. All the land that had been used by all our
- 22 forefathers was beautiful to see. You could see
- 23 wolves, animals, deer, birds. You name it. And now
- 24 you can't even go that far. Conawapa, which was a
- 25 traditional site for -- for the land users -- land

- 1 resource users, they can't go there anymore without
- 2 having to go through security and stuff.
- And when we were negotiating, we were
- 4 going to meetings to help the resource users, we asked,
- Build us a road so we can use it at any time, because
- 6 for us to go hunting and trapping and fishing, it's not
- 7 set by the sun. It's by everything else throughout the
- 8 day. Our lives are not controlled by a clock. You do
- 9 things as you see fit and as they are dated.
- 10 Manitoba Hydro told us that it was too
- 11 expensive to build a road. Then they said, You would
- 12 have no problems getting to and from Conawapa. And
- 13 then it came to, Only a certain time you have to be
- 14 piloted across. When people try to go there, they
- 15 can't even go there. And I'm speaking from honest.
- 16 From -- a friend of mine tried to go to
- 17 Conawapa. He's a land resource user. They don't let
- 18 him go through. They tell him to come back at a
- 19 certain time. That's not the way our lives are run.
- 20 Our forest, it's like a maze. You know
- 21 the things they show on computer, TV, the leavers
- 22 (phonetic), things that people come and do in the dead
- 23 of night, aliens or whatever they are called. Well,
- 24 when you get up in a plane and you look down, that's
- 25 what the Gillam area looks like. They've got corridors

8222 this way, that way, in every direction you can think of. 2 3 It's really in a sad state. I think there must be alternative ways for Manitoba Hydro to -to use in this day and age in order to get that power that they need to sell to the United States. 7 (BRIEF PAUSE) 9 10 ELDER CHRISTINE MASSAN: I believe this group was meant to be. I'd never heard of her. I'd 11 12 never heard of Robert, and they didn't know who we 13 were, and yet yesterday when we sat down, all the 14 pieces started to click together. That was a wonderful 15 feeling. 16 But right now, I have so much on my mind and so much to say. I can only give you little bits 17 18 and pieces in order to put lots on the table, but 19 hopefully, we'll have some more time after, and I don't want to take all the time away from the rest of the 21 group, so hopefully, we'll have time to share some more 22 later, but thank you, panel, for -- again for having 23 us. 24 MS. AIMEE CRAFT: Thank you, Ms. 25 Massan. Ms. Disbrowe, on this -- on this picture,

- 1 there's actually a -- a caption, and it says, and these
- 2 are your words:
- This is not even a choice. We are
- 4 supposed to speak for them."
- 5 Can you explain to us why you're here,
- 6 and why you're speaking?
- 7 MS. ILA DISBROWE: I -- I never plan my
- 8 months in advance or weeks. I go day by day because
- 9 we're not in control of our destiny of our days, and to
- 10 me, my path has led me here because we have to speak
- 11 for -- for our children, Mother Earth, because we are
- 12 destroying it. We're destroying what was beautiful
- 13 that was given to us, and we have to start speaking for
- 14 all creatures. That's what I meant by that.
- MS. AIMEE CRAFT: Thank you. Mr.
- 16 Spence...?
- 17 MR. ROBERT SPENCE: I was in (CREE
- 18 LANGUAGE SPOKEN). Thank you. I thank the Creator
- 19 today for leading us to this point in time today, for
- 20 bringing us here. (CREE LANGUAGE SPOKEN). We
- 21 appreciate the time that the Public Utilities Board is
- 22 giving us here today to come and speak about the truth
- 23 that affect us. (CREE LANGUAGE SPOKEN). It's hard to
- 24 come up here and sit to speak the truth, especially
- 25 when it's so intimidating to be sitting around a -- a

25

8224 bunch of people you have never met in your life. But here, (CREE LANGUAGE SPOKEN), we are 2 the first people, the people of the land. 3 grandfathers are here. They're all around us. They're behind us. They're with us here today. They're in this room. So whatever we say, by swearing us in, by not swearing us in, we're here to tell the truth, the 7 only truth. 9 (CREE LANGUAGE SPOKEN). I come here 10 today because (CREE LANGUAGE SPOKEN). I come here to 11 speak... 12 13 (BRIEF PAUSE) 14 15 MR. ROBERT SPENCE: ...on behalf of my 16 children and my grandchildren. (CREE LANGUAGE SPOKEN). 17 We come here to speak the truth about the destruction 18 that Manitoba Hydro causes on our environment, on our 19 being, and on the land and the water, the trees, the 20 animals, the birds. Everything living on this planet, 21 we hold dearly and sacred in our hearts. 22 (CREE LANGUAGE SPOKEN). My umbilical cord is tied to the land that we walk on every day. I

come here to speak the truth, that what Manitoba Hydro

is doing is killing our mother. Every day we watch

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- 1 what Manitoba Hydro is doing. You go out and you watch
- 2 your mother die of cancer day. You watch her die over
- 3 and over and over again. Every day, you watch
- 4 her die.
- 5 (CREE LANGUAGE SPOKEN). Our
- 6 grandfathers never taught us to use the way the -- use
- 7 the land the way Manitoba Hydro's used it. They never
- 8 taught us to destroy it. We were taught to respect it.
- 9 (CREE LANGUAGE SPOKEN). I didn't come here for the
- 10 sake of speaking on behalf of the almighty dollar. The
- 11 people here who are here to question me today are here
- 12 to question me because of the fact that they are led by
- 13 the almighty dollar. They're paid. They're going to
- 14 be paid. They're paid already to ask the questions
- 15 that they're going to ask.
- 16 The difference between them is the
- 17 feeling we have for the land and the money they make.
- 18 That's what the difference is. They're paid to do what
- 19 they do; we're not. We're real. We're from the land,
- 20 aski. (CREE LANGUAGE SPOKEN). I can't stand to see
- 21 the land, the water, the land floating down the -- the
- 22 river. I can't stand to see the areas that I used to
- 23 play as -- as a kid disappearing or all gone already,
- 24 the places my grandfather took me to fish, where there
- 25 was a plentiful amount of fish. There was a lot of

- 1 fish back then. (CREE LANGUAGE SPOKEN).
- There was lots. There was reed beds.
- 3 There was vegetation all over the lake. There was
- 4 ducks, geese, moose, caribou, everything you can
- 5 imagine, muskrats, beaver. Today, you're hard pressed
- 6 to find any of that along that whole river system.
- 7 That's -- everything that we hold so dear is dying all
- 8 around us.
- 9 And also deer is dying all around us.
- 10 It's so easy for the white man to pick up and move
- 11 whenever he wants, because his roots are not tied to
- 12 the earth as -- as tightly as it is for us, our people,
- 13 Inninuwuk, the people of the land. It's easy for you
- 14 to pick up and move and go wherever you want. You have
- 15 no connection to this earth the way we have. The
- 16 respect we have, you'll never understand, for this
- 17 earth.
- So why I speak, why we're here? You
- 19 have a lifetime. I guess not. I think not. I'm
- 20 forty-four (44) years old, and I'm only allowed so many
- 21 minutes to speak, which is not fair, but it's just the
- 22 way it goes, I guess. So with that, I'll pass the mic
- 23 over to Elder. Flora...?
- 24 MS. AIMEE CRAFT: Elder Beardy, can you
- 25 share with us why you're here and why you're speaking?

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1 ELDER FLORA BEARDY: Thanks, everybody.

- 2 I'm really glad to be here. Thank you for giving us
- 3 the time to come and -- and talk about our concerns.
- 4 The Aboriginal people are known as keepers of the land,
- 5 Okanawaynichikaywak. But a lot of times we are not
- 6 consulted when projects go on. And -- and that's where
- 7 things start to go wrong. If we were consulted, we
- 8 would be able to work together. But today, there is
- 9 some consultation, which is a good thing. But in the
- 10 past, this hasn't happened. So how can we help look
- 11 after the land with these projects when we are not even
- 12 considered?
- We've seen so much damage. Every day
- 14 aski, Earth, cries because of the damage that's been
- 15 done -- being done to her, every day. And we see this
- 16 in our communities, the damage that is happening. So
- 17 we, as Aboriginal people, are here. This group is here
- 18 to come and share these concerns. And we have to speak
- 19 for our people that can't speak for themselves.
- 20 We have to speak for the animals, the
- 21 birds, the fish, every living thing on Earth, because
- 22 we believe that everything is connected. And once one
- 23 (1) thing is damaged, it throws the balance off
- 24 totally. So how do we fix that? Do we just keep going
- 25 on, damaging Mother Earth and not fixing anything?

- 1 We -- we're going to talk about bit
- 2 about the future, what will our future generations
- 3 have? Today the Elders say: Teach the youth how to
- 4 live off the land. Teach them how to do this. Teach
- 5 them our old teachings, or traditions.
- 6 Because even though they go to school
- 7 and they get their -- their -- and they graduate, a lot
- 8 of them are unable to get jobs. So where do they go?
- 9 They go to social assistance and they end up going down
- 10 the wrong path. But at least if they're taught how to
- 11 live off the land, then they can -- they can survive
- 12 the way our people did for thousands of years.
- 13 Ininew kiskaynitamowin, traditional
- 14 knowledge, has kept the Aboriginal people survive --
- 15 they're survived with that and it's been passed down
- 16 from generation to generation. (CREE LANGUAGE SPOKEN).
- 17 Manitoba Hydro talks about traditional knowledge and
- 18 working closer with the Aboriginal people. I don't see
- 19 very much of that happening. I see Western science
- 20 taking over.
- 21 And yet it can work if we work together.
- 22 It can happen. And we are in a partnership, and we
- 23 should be working towards that so we can work together.
- 24 But in the past, the chiefs that -- the chief that was
- 25 at York Factory, late Abraham Beardy (phonetic), he

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- 1 spoke about this happening. Now, how did he know what
- 2 was going to happen in the future? They all lived in
- 3 the -- in the Hudson Bay area, York Factory, (CREE
- 4 LANGUAGE SPOKEN).
- 5 They didn't go to any cities or anywhere
- 6 to -- to see what else was going on around the country,
- 7 but how did they know -- how did those Elders know that
- 8 this was going to happen to our Earth? It -- I -- I
- 9 often wonder about that, you know. But today, with all
- 10 the -- and then for our youth. We talk about -- we're
- 11 going to talk about the future. I think this is
- 12 something that we really, really have to look at,
- 13 because how will they survive? How will our future
- 14 generations survive?
- 15 So I think further down the
- 16 presentation, we're going to have -- we're -- we'll
- 17 have more time to -- to talk about different things,
- 18 but that is why I am here too, is to -- to present
- 19 these concerns and to see what we can do about them, to
- 20 make sure that the panel hears what is going on, and
- 21 like we said, We are going to speak the truth. Ekosi.
- MS. AIMEE CRAFT: Thank you, Elder Bear
- 23 -- Beardy. Mr. Noah Massan...?
- 24 ELDER NOAH MASSAN: I'd like to -- to
- 25 thank Public Utilities Board for this -- for us to come

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- 1 here to speak out to what I -- what I got to say in the
- 2 past. I want to thank all the -- the people around
- 3 here, and the people upstairs, I guess, as they're
- 4 known, I guess. Good morning to you guys.
- 5 I -- I seen my town started from way
- 6 back. I still listen to the Elders. When Kelsey first
- 7 come, the Elders, when they were talking about it, I
- 8 said (CREE LANGUAGE SPOKEN).
- 9 You're going to block the river, they
- 10 said, and the Elders in my community thought Nelson
- 11 River was going to be real dry, so there would be no
- 12 fish for us. And our road, kimiskenaanaan, they say,
- 13 How you going to paddle to go somewhere? That's a
- 14 vision they seen. They thought Kettle River would be
- 15 water around it.
- That's why I'm here, to speak out.
- 17 Like, they used to tell us (CREE LANGUAGE SPOKEN).
- 18 It's us that will only be carrying it on, because
- 19 they're not here no more with us. Excuse me.
- 20 Because what I know is -- like, they
- 21 used to say, our place in our community, there were a
- 22 lot of food around our community before Manitoba Hydro
- 23 come to our community, because I grow up in Gillam. I
- 24 see what's going on.
- 25 And then -- then the met -- a couple

- 1 Elders used to say (CREE LANGUAGE SPOKEN). That's
- 2 another word. Our river is getting shorter. I used to
- 3 wonder what they're talking about. Now -- now, I
- 4 understood, as, like, I work in these dams to see
- 5 what's going on now. Just a minute.
- In my community, there's three (3) dams.
- 7 Kettle is the first -- Kelsey was the first one that
- 8 blocked the river. Now it's Kettle, Long Spruce, and
- 9 Limestone. They're just like basins. The fish can't
- 10 come up no more, and some of the Elders used to tell
- 11 me, (CREE LANGUAGE SPOKEN). Like, they want to -- they
- 12 told me, What do we eat? Look, it's getting further.
- 13 Our fish are just getting further by Manitoba Hydro.
- 14 They're pushing us away from my community.
- There used to be a lot of food right
- 16 there. There were berries, fish, you name it. Even
- 17 caribou used to walk to our community. I -- I used to
- 18 see my mom open the window to shoot a caribou, you
- 19 know? But these fishes is outside. Now we can't even
- 20 do that in our community. Manitoba Hydro got a lot of
- 21 bylaws, everything coming from the city. The people
- 22 that work for Manitoba Hydro, we live in the -- in the
- 23 town of bylaws now. Our First Nation people can't even
- 24 have dog. That's how I look at it.
- 25 And it's okay for Manitoba Hydro to let

- 1 their dogs run around in -- at night. Our dogs can't
- 2 do that, if you've got to buy license and everything.
- 3 All Hydro thinks about is -- you know, the don't see us
- 4 -- our feeling. They see what's going on in this -- my
- 5 group here, I'll say my group.
- And then the feelings, they get though,
- 7 that's the feeling I get, too. Hydro will just look at
- 8 numbers, that's all. Like one (1) Elder told me, you
- 9 know you go and see those horse races, he told me, one
- 10 (1) Elder, but he's not with us no more. Them horses,
- 11 when they race, they got this thing here, they said.
- 12 Manitoba Hydro got those things on the side of their
- 13 head. They don't want to listen to the people of --
- 14 the people that live over there. They just see a
- 15 dollar sign at the -- at the end of the thing, the
- 16 vision. That's the vision I'd see when this old quy
- 17 was telling me.
- That's why I'm here to speak out, to
- 19 carry it on. They said, You guys are the ones that
- 20 (CREE LANGUAGE SPOKEN). They tell us, It's you guys
- 21 that are going to keep carrying it on. Like my chief
- 22 of counsel, they don't live in my -- in my -- our town.
- 23 My cousin Joe (phonetic) lives in Thompson. They never
- 24 see what's going on in our community, so does our
- 25 Chief. He's from Churchill. He doesn't even have a

- 1 clue what's going on. You know, he's got to be right
- 2 in there to see what's going on in my community.
- That's all I will say for now, but thank
- 4 you. Thank you.
- 5 MS. AIMEE CRAFT: Thank you, Mr.
- 6 Massan. On this next slide, this is an excerpt from
- 7 the CAC proceeding and an Elder who's not here today
- 8 who's from Nisichawayasihk Cree Nation, and this is
- 9 about a customary law. And Elder Beardy, could you
- 10 share with us your understanding of -- of this
- 11 particular customary law and how it applies to what
- 12 we're doing here today?
- 13 ELDER FLORA BEARDY: I'll read the
- 14 quote.
- "One of our customary laws that we
- 16 are exercising today is
- 17 tawinamakewin. We come here and
- 18 exercise the art of listening in
- 19 order to create understanding amongst
- 20 ourselves. We are exercising our
- 21 customary law today."
- 'Tawinamakewin' means that you're making
- 23 room for, by listening together, more knowledge and
- 24 information, and this is what we're doing here today.
- MS. AIMEE CRAFT: Thank you. Now we're

8234 going to move to some of the images that represent the present housing way -- housing health and way of life, and the first relates to travel. 3 4 Can you --5 THE CHAIRPERSON: Could you hang on for a second, Ms. Craft, please? 7 (BRIEF PAUSE) 9 10 MS. AIMEE CRAFT: Okay. So this image 11 is -- you have to focus in really in fine detail to see that this is a sign pointing to the winter road to York 13 Landing and Ilford. And this is the turnoff from the 14 provincial highway. 15 And, Mr. Spence, could you tell us about some of the issues that -- that you may face in relation to travel and that result from some of the 17 18 hydroelectric projects past and -- and present and 19 future? 20 MR. ROBERT SPENCE: Yeah. I weigh two 21 eighty (280) right now. The road that leads from 22 Thompson to Gillam, Fox Lake, right now is in a mess, 23 is in shambles. There was sign that was put up on 24 Highway 280 and said, "Partnership with Manitoba Hydro" 25 (CREE LANGUAGE SPOKEN) to repair the roads that led to

- 1 our communities.
- 2 And you travel that same today that
- 3 Manitoba Hydro is so proud to display as being a
- 4 partner of,
- 5 it's like playing Russian roulette with your life.
- 6 There are boulders the size of my hat right on the
- 7 road. The speed limit is 90 kilometres an hour. You
- 8 can't travel that -- that fast. You -- on a good day,
- 9 you can travel to Thompson in hour and a half. With
- 10 the condition and the way the road is today, with all
- 11 that traffic that's on the road now, two (2) hours, two
- 12 and a half (2 1/2) hours.
- But to travel that road today is like
- 14 Russian roulette. Behind what -- what cloud of dust
- 15 are you going smack into a Manitoba Hydro truck or one
- 16 of their contract -- subcontractor's vehicles? It's a
- 17 dangerous proposition to go on that road today. I'm
- 18 pretty sure many of you who are in this room today have
- 19 never been or will never travel on roads like that.
- 20 And Manitoba Hydro proudly displays their name on a
- 21 road that dangerous.
- MS. AIMEE CRAFT: Mr. Spence, are there
- 23 any other options, in terms of getting in and out of
- 24 Tataskweyak, other then -- then this road?
- MR. ROBERT SPENCE: No, there isn't.

- 1 MS. AIMEE CRAFT: Elder Beardy, can you
- 2 express and share with us some of your concerns about
- 3 winter road travel, especially as it relates to new
- 4 construction projects?
- 5 ELDER FLORA BEARDY: Well, in the
- 6 winter our road is sometimes not very to safe to travel
- 7 because of the fluctuation in -- in the water.
- 8 Sometimes Hydro lets the water go so that -- that we
- 9 end up with water along the shoreline. And when you're
- 10 trying to go out across the lake, then you have to go
- 11 through some slush sometimes. And this makes it very
- 12 dangerous for travel.
- 13 Even in a summer -- this is winter I'm
- 14 talking about. In the summer too, there's a lot of
- 15 problems with floating debris. And those -- those can
- 16 cause accidents. I think we've had a few accidents
- 17 with -- with people in -- driving motor boats. But you
- 18 can see a lot of that debris when you're travelling on
- 19 the ferry from York Landing to Split Lake.
- 20 So with the -- with the -- back to the
- 21 winter, when the hunters and the trappers go out on
- 22 their snowmobiles, you know, they run into slush and
- 23 they get stuck. And sometimes they go through the ice.
- 24 So that's -- there's a -- that's a big safety issue.
- MS. AIMEE CRAFT: Elder Beardy, can you

8237 explain to us what the different methods are to get to 2 and from York Landing? 3 ELDER FLORA BEARDY: Well, right now our winter road is closed, so the only way we get in and out of the community is to fly. And every year, the -- the company puts up their prices because there's 7 no competition. 8 In the summer, we have the ferry, which usually starts running maybe late May, early June. And that runs twice a day. It's a two (2) hour ride each 10 way, so that's about the only way. And the winter 11 road, of course, we -- we were able to use our vehicles. That's about -- that's about it. 13 14 MS. AIMEE CRAFT: And this next slide, 15 Ms. Massan, is an image that -- that you've shared. 16 Can you explain to us what is that we're 17 seeing here? 18 19 (BRIEF PAUSE) 20 21 MS. AIMEE CRAFT: Or Jack...? 22 23 (BRIEF PAUSE) 24 25 ELDER JACK MASSAN: Well, that's --

- 1 well, that's a trout fishing line that goes to -- from
- 2 Gillam to Churchill. And, see, that's part of my trap
- 3 line right there. And right now in the wintertime the
- 4 veh -- the Ski-Doos and everything, you just go back
- 5 and forth on that line. And my trap line is all --
- 6 always affected 'cause there's so many -- so many
- 7 vehicles or Ski-doos.
- 8 And -- and my -- my cabin is -- it's not
- 9 too far from -- well, it's by Limestone River. And
- 10 when I go stay over there, like in the wintertime, I
- 11 hear this noise. There's a -- that transmission line
- 12 is not too far from where my cabin is, eh. I hear
- 13 this, Boom, and then another maybe twenty (20), twenty-
- 14 five (25), and there's other -- another, Boom. You can
- 15 -- you can hear that when you're -- when you're just
- 16 going to sleep at night. And it's -- I'm pretty sure
- 17 it's coming from that transmission line. I don't know
- 18 what's -- what causes that or -- and I don't know.
- 19 It's just -- there's another time, it
- 20 was last winter. I went and checked my traps. They
- 21 were fixing that transmission line. And there was a
- 22 big swamp. And then that -- that CAT went right
- 23 halfways on -- in that swamp. So I went past. They
- 24 were trying to pull it out. And when I got to -- to
- 25 that highway, 280 Highway, there -- there was a truck

- 1 and a -- and a -- I think there was a D8 on top of the
- 2 trailer.
- 3 So -- but the CAT was running on top of
- 4 the -- the -- you know, the motor was going. So I
- 5 didn't bother. I just -- I turned my truck back on.
- 6 And I looked -- I seen this -- suddenly I think -- I
- 7 thought it was some water, so I got out of my truck,
- 8 and I went and checked it. I looked at it. It was
- 9 oil. That oil was just -- just like a big -- a small
- 10 lake. All that oil was just coming from that CAT, that
- 11 bulldozer, D8, eh.
- 12 And so I went and told those guys, you
- 13 know. I don't know what they did after that. I don't
- 14 know how they got rid of that -- that oil that was
- 15 spilling in that area, because I -- I went back to my -
- 16 went back to Gillam to -- to -- and there's a lot of
- 17 -- lots of places that I -- that I heard, I seen, that
- 18 oil spills and all that, it could...
- 19 MS. AIMEE CRAFT: Mr. Masson, could you
- 20 explain to us what you might have observed, the -- the
- 21 reactions of animals in relation to these -- these
- 22 lines?
- 23 ELDER JACK MASSAN: Yeah -- yeah,
- 24 because now the animals that used to go on that -- that
- 25 area, there's hardly any -- hardly any. Like what I'm

- 1 saying is that those -- those Ski-Doos, there's so many
- 2 of them going back and forth and that, it's just like a
- 3 highway. So they're scaring all the animals out of --
- 4 that's my trap -- trap line and that. But it -- so
- 5 just -- I don't know where the animals are going now.
- 6 They've got to be way out some other place, because
- 7 they're not around that area. It's...
- 8 MS. AIMEE CRAFT: And do you recognize
- 9 this image here? I just put another one up on the
- 10 screen.
- 11 ELDER JACK MASSAN: Yeah, that's --
- 12 Noah -- Noah, is it -- Noah, is that when you're...
- 13 ELDER NOAH MASSAN: That's -- that's
- 14 Radisson yard. That Radisson converter station. Way
- 15 back in '60s, there used to be a nice Elder. Well, you
- 16 can look at it if you guys ever go to Gillam. You'll
- 17 see a big bore pit there. That was a beautiful area
- 18 way back in '60s. I remember because I used to go with
- 19 my -- my mom and granny to pick berries. There was
- 20 lots of stuff there. There was a lot of caribou around
- 21 that area, too.
- I think they used to -- I know in those
- 23 years they used to say residential thing. I think the
- 24 caribou used to migrate near -- close to that area. I
- 25 haven't seen no caribou around that area right there,

- 1 because there's too much power there, lots of humming
- 2 noise. You can hear that from Gillam, even, these
- 3 things kicking like a big bang, you know? You never
- 4 see -- hear that way back in '60s, you know?
- 5 And when -- like, you should see the
- 6 mess you had in that bore pit, but I think Manitoba
- 7 Hydro should do something about these pits, dress them
- 8 up. Look what they did in Gillam there. They dug a
- 9 bunch of good ground and the -- I mean, they plant
- 10 moss. They're all at Long Spruce, what I noticed last
- 11 year. How come they can't, all these things, to the --
- 12 along the slopes of these things? Grow trees back,
- 13 that's what I'd like to see, you know.
- 14 I quess it's nice for them to see that
- 15 general -- like that, Radisson.
- 16 MS. AIMEE CRAFT: Mr. Massan, would it
- 17 be -- would it be fair to say that when you stand near
- 18 Radisson switching area, if you do a three-sixty (360)
- 19 turn, that you see something similar to this all
- 20 around?
- 21 ELDER NOAH MASSAN: Not -- right here?
- 22 MS. AIMEE CRAFT: At -- at Radisson.
- 23 ELDER NOAH MASSAN: What do you mean by
- 24 that?
- 25 MS. AIMEE CRAFT: You see -- do you see

- 1 these lines going out all around into the lands around
- 2 Radisson?
- 3 ELDER NOAH MASSAN: Not -- not as much.
- 4 Like, you see a lot of powerlines in my community.
- 5 Everywhere you look there's a powerline. Like I walked
- 6 in all these powerlines and even all the way to
- 7 Churchill even. I did that, the last powerline I
- 8 walked. That's all you see is powerlines. Not like in
- 9 the city here. You don't see too many around here
- 10 unless you go out on Taylor, along outskirts of the
- 11 city.
- MS. AIMEE CRAFT: We're just going to
- 13 switch landscapes a little bit and move to some of --
- 14 of these images of homes. And Ms. Disbrowe, can you
- 15 tell us where these homes that we're about to see are
- 16 located?
- 17 MS. ILA DISBROWE: That -- they're in
- 18 Split Lake. That's... Those are actually people
- 19 living in those homes. They're so mould infested. My
- 20 -- these are my sister's homes there. They're both
- 21 leaking, both of my sisters. My house is doing that
- 22 too. Our house -- most of the houses you see in Split
- 23 Lake, they're like that way.
- Just to make my -- just to get away from
- 25 being sick each day and coughing, we take trips on

- 1 weekends. We take trips to the camp just to re --
- 2 recover from what living in that -- in those homes.
- 3 You go and rejuvenate. We cough all the time in our
- 4 homes. We're constantly sick. There -- there's
- 5 overcrowding in Split Lake. There's about thirty (30)
- 6 people in one (1) -- one (1) home. There's young
- 7 people couch surfing, like they are homeless, that they
- 8 go to other people's homes to sleep on the couch, just
- 9 to have a place, laundry rooms, just to have a place to
- 10 sleep.
- 11 And -- and our people are in -- they end
- 12 up on the streets in Thompson, that homeless shelter.
- 13 You -- you see these people. This is their own land.
- 14 This is where they grew up, and you see them homeless,
- 15 and you see our homes. Most of the -- the -- in those
- 16 homes, the floor is all rotten, they -- and you can
- 17 fall through them. I actually seen a lot of people,
- 18 even my sister in her home -- in my dad's home. In
- 19 bathrooms, you can see the floor. In that first
- 20 trailer, I walked in, there was holes on the floor it
- 21 was so rotten. Those houses decay fast.
- MS. AIMEE CRAFT: Thank you. Mr.
- 23 Moose, can you tell us what -- what we have in front of
- 24 us in terms of this picture?
- MR. IVAN MOOSE: Okay, before I do

- 1 that, you have to realize this is now. This is
- 2 happening now, where we have a supposed partnership
- 3 with Manitoba Hydro to help us benefit from all the
- 4 projects. This is happening today, that these people
- 5 and our people are living in homes. Our people are
- 6 living on the streets in Thompson, too. I seen them.
- Now this is a house they're building.
- 8 This one is called a RMT, a -- a ready-to-move
- 9 building, they're putting -- putting up for Hydro
- 10 employees in Gillam. My cousin calls the Town of
- 11 Gillam a glorified Hydro camp, because the people that
- 12 come there, they don't say to live. They come there.
- 13 They stay and make their money. They leave.
- 14 And then they have -- they have another
- 15 saying. It's called a retirement home for people that
- 16 are ready to retire. They come up there and work for
- 17 the last two (2) or three (3) years of their career.
- 18 All these homes are built with two (2) meters. Even
- 19 the teachers just have meter -- two (2) meters.
- The town employees that have homes are
- 21 double metered or given subsidies of Hydro. The one
- 22 (1) meter that's -- that's in that picture there, one
- 23 (1) meter is attached to the heat, and that's free.
- 24 The employees don't pay for that. They only pay for
- 25 the light.

- I was paying a Hydro bill one time, and
- 2 this lady -- I know a lady from Hydro walked in there
- 3 and she was complaining about her Hydro bill. And I
- 4 thought, Good, there's somebody complaining. And I saw
- 5 it, it was eighty-two dollars (\$82), and I'm standing
- 6 there with mine, seven hundred and sixty-eight dollars
- 7 (\$768). That's one (1) month. That wasn't even cold
- 8 yet.
- 9 See, they're getting all the benefits,
- 10 and we're the people that originally lived there when -
- 11 we're -- we're still call -- called squatters -- what
- 12 do you call them, squatters. Why can't we -- we --
- 13 we've questioned. We've asked. Even one (1) of our
- 14 workers told one (1) of our Elders when our Elder asked
- 15 her, Why can't we get subsidy for hydro, she said right
- 16 away, No, we can't. Why the hell not?
- We should be the ones getting the
- 18 benefits. It -- it's our land they come and took, our
- 19 homes, our... I live in a trailer -- or a lot of our
- 20 members live in the trailers like them that were given
- 21 to us as a gift from Hydro years, years ago. And the
- 22 hydro rates, the bills, are over a thousand on the
- 23 coldest months.
- 24 My brother-in-law is an old-age
- 25 pensioner. When you are a couple living as an old-age

- 1 pensioners, your pension gets cuts in half -- gets cut
- 2 in half. So my sister gets five sixty (560) and so
- 3 does the husband. And five sixty (560) -- that's
- 4 twelve hundred (1,200), okay. In the coldest months,
- 5 that -- those -- those two (2) cheques combined goes to
- 6 pay for their hydro bill, so they live on my -- my
- 7 brother-in-law's pension from where -- where he worked
- 8 while these guys are living in luxury.
- 9 You go there in the summertime, nice
- 10 green lawns, and you see bikes, nice cars, or in the
- 11 wintertime, Ski-Doos, boats in the summer. That's how
- 12 our homes should be looking, not living in dumps like
- 13 we are now. Throw -- and when you have double-wides
- 14 thrown away, Hydro, they don't give us the opportunity
- 15 to go and maybe take a door out or a window that's --
- 16 they're -- they're in good condition.
- 17 You know what they do? They take them
- 18 to the dump. They flip them upside down so we can't
- 19 get at anything. Some of them they put in the hydro
- 20 yard for their employees to use as cabins. That's how
- 21 we're being treated today, not thirty (30) years ago,
- 22 it's today. We're suffering because of these projects.
- I worked on these projects. I worked
- 24 with the Band. I signed agreements. I sat with
- 25 Elders, telling them we're going to get better -- we're

24

25

8247 going to get better benefits, we're going to get -- our life's going to get better. These Elders are all gone. I -- they made a liar out of me. These people -- Hydro 3 made a liar out of me, telling my Elders -- promising them these things they were going to receive. Still today, I hear my people that work 6 for us sitting up here saying we're getting benefits. 7 We're not getting no benefits. I haven't seen a darn thing since ISA. The only thing I ever seen I held in 10 my hand from Hydro or from the Band was a thousand 11 dollar payout when we signed the ISA. Other than that, 12 nothing tangible. 13 MS. AIMEE CRAFT: Thank you, Mr. --14 MR. IVAN MOOSE: And we were partners. 15 MS. AIMEE CRAFT: Thank you, Mr. Moose. 16 I'd like to turn now to a -- a photograph of trap line 17 And, Jack and Christine Massan, this is your trap 18 line area. Is that right? Okay. And it's a 19 commercial trap line area, but do you use this -- this area for other uses as well? 21 ELDER JACK MASSAN: Oh, yeah. We do 22 the hunting, fishing, and trapping, whatever --23 ELDER CHRISTINE MASSAN: Collecting.

ELDER CHRISTINE MASSAN: We also

ELDER JACK MASSAN:

Yeah.

- 1 collected herbs and roots for medicinal purposes. We
- 2 collect berries and store them over the winter so we
- 3 can use them throughout the winter until the next
- 4 growth the following year.
- 5 ELDER AIMEE CRAFT: And --
- 6 MS. CHRISTINE MASSAN: And the
- 7 medicinal purposes are -- I use a lot of the berries
- 8 and stuff for my diabetes, and it's getting harder and
- 9 harder each year to -- to benefit from the natural
- 10 world to manage my diabetes so that I can live a normal
- 11 life. I can't eat the fish anymore. It -- from the
- 12 Nelson River, because of the mercury and the way they
- 13 taste after Manitoba Hydro has done their work, because
- 14 the water is so murky.
- 15 And we spoke about the water conditions
- 16 already. I -- instead of repeating myself, I'd like to
- 17 just carry on with some of the other things. When you
- 18 talk to Manitoba Hydro, they want to know exactly where
- 19 we go to pick these things for medicinal uses. They
- 20 can't understand how I can't say, Just straight down
- 21 the road past the tree that's bent -- bent over towards
- 22 the creek, like that.
- I can't give them a description, because
- 24 we don't pick in the same spot every year, because if
- 25 we do, it's depleting. And so now it takes longer and

- 1 longer to go out. I have to go further into the bush
- 2 to get what's good for us, and you'll hear a number of
- 3 the Elders say the same thing. Years ago, you could
- 4 pick berries in the backyard, or get your supper just
- 5 in a bush next to the house, and now it takes the whole
- 6 day to plan to take the Elders out. You have to have a
- 7 vehicle, and the list just goes on and on.
- 8 Life in general, trying to live in
- 9 harmony as we always have, is getting more and more
- 10 difficult.
- 11 ELDER JACK MASSAN: That -- the
- 12 transmission line, you can see there, that's where my
- 13 cabin is I was talking about. Yeah, right -- right
- 14 there, and -- and there was one time, I think these
- 15 Barren Land caribou came, and I was following them.
- 16 They went underneath -- they went under the
- 17 transmission line, so I drove underneath there too.
- 18 When I was driving, all of a sudden, I -
- 19 I don't wear a -- a cap or anything -- excuse me. I
- 20 was driving underneath there, wondering what -- what's
- 21 going on. Like, my hair -- someone was pulling my hair
- 22 up when I was go -- going underneath that -- that trans
- 23 -- that transmission line. So I said what -- why -- I
- 24 was looking around. I figured someone was pulling my -
- 25 I don't know if that's the power from that line

- 1 that's pulling -- that was pulling my hair, or?
- 2 So I went further out, and then I came
- 3 back. The same thing happened when I was going
- 4 underneath that powerline. So I don't know what's --
- 5 what's happening to those -- the animals that go
- 6 underneath those lines, or I don't know what's --
- 7 there's -- that's where that's going to be -- that
- 8 Bipole III is going to go right across that.
- 9 MS. AIMEE CRAFT: And Mr. Massan, this
- 10 is a photo of your -- one of your cabins? One of your
- 11 trapping cabins?
- 12 ELDER JACK MASSAN: No, no, that's --
- 13 yeah. Well, when I was fifteen (15) years old, that's
- 14 when I built that cabin, so it's right after when I --
- 15 when I escaped from the residential schools. So, yeah,
- 16 it's -- that's one (1) -- one (1) of my cabins, but the
- 17 other one is way -- way up the Limestone River.
- 18 MS. AIMEE CRAFT: Okay. Thank you.
- 19 Mr. Massan, this is your trap line area, trap line 9?
- 20 Is that right? Mr. Noah Massan...?
- 21 ELDER NOAH MASSAN: Yeah, that's right.
- 22 I inherited that trap line 2000 after my dad died. But
- 23 it used to belong to the grandfathers before me. And
- 24 when -- now it's all flooded there. You can see how
- 25 much of our land is flooded. And then they never got

- 1 nothing for it from Hydro -- Hydro. And then -- and
- 2 the other time they build a powerlines right through my
- 3 trap line in the road.
- 4 MS. AIMEE CRAFT: Why is your trap line
- 5 important to you?
- 6 ELDER NOAH MASSAN: Well, we've been
- 7 using it as a harvesting. We took -- we harvest right
- 8 through, not just winter. I used to trap lots. Now,
- 9 it's sort of slowing me down because of my illness.
- 10 I'm -- I don't know, I got this thing they call Kennedy
- 11 Disease. My muscle cells are drying up, they say.
- 12 They told me I -- I'll be in a wheelchair year 50. I
- 13 now -- I'm sixty-four (64) now. I still do it.
- 14 MS. AIMEE CRAFT: And, Mr. Massan, you
- 15 eat food from this -- this area. How many -- for
- 16 example, how many geese would you take from your --
- 17 your trap line area for food every year?
- 18 ELDER NOAH MASSAN: Well, if I go back,
- 19 it's just geese when I get home. If I can get twenty-
- 20 five (25), I'll kill twenty-five (25), I've got enough
- 21 for fall.
- MS. AIMEE CRAFT: Yeah.
- 23 ELDER NOAH MASSAN: In the fall. Not
- 24 just the geese. The ducks too. Like I fish too.
- 25 Summertime we pick berries and all that, you know, we

- 1 don't stop just we've got to stop because season's
- 2 over. We harvest right until. Just like the farmers.
- 3 They put their crop in there and then they take them in
- 4 the fall.
- 5 MS. AIMEE CRAFT: Mr. Massan, will some
- 6 of your hunting and trapping areas be affected by
- 7 Keeyask?
- 8 ELDER NOAH MASSAN: Lots of it. When I
- 9 was just recently on the road, you know, Manitoba Hydro
- 10 has taken a -- a good section of my trap line. There's
- 11 -- Jack Pine Ridge there, that's where the road's going
- 12 to be. And the animals are starting to come back after
- 13 forty (40) years, like they used to be back in '60s.
- 14 I remember running around Cache Lake;
- 15 that's only five (5) miles out of Gillam. I was pretty
- 16 young at that time. Maybe I was a -- I asked my
- 17 auntie, How old I was when I start trapping. (CREE
- 18 LANGUAGE SPOKEN) you were pretty young. I think around
- 19 nine (9) or eight (8), helping my grandpas. That's
- 20 before Hydro come.
- Now, we don't even seek in that trap
- 22 line ever since after Hydro flooded and diverted
- 23 Buttonhole River (phonetic). Buttonhole River is to go
- 24 to where the boat launch is. They diverted manmade
- 25 river from Cache Lake to Kettle River now. It's

- 1 destroyed. Like, I don't see no more muskrat. When
- 2 North-South was studying there about ten (10) years
- 3 ago, that one (1) guy that retired from North-South, he
- 4 told me they weren't for seeing one (1) muskrat.
- 5 And I told him, You weren't around, I
- 6 seen two (2) of them; you know, I seen two (2) in my --
- 7 I didn't kill them. I feel like they make a comeback.
- 8 Hopefully they are starting to come back. Now, what's
- 9 going to happen to those animals that are starting to
- 10 come back, back to where they were.
- 11 And the caribou have their little ones
- 12 on that certain area where the Hydro switching yard's
- 13 going to be. I asked that question in that other
- 14 hearing, How far was that? It's only a couple of miles
- 15 away. What's going to happen to those people when that
- 16 switching yard and a two (2) power -- three (3) power
- 17 lines going to run on the road?
- MS. AIMEE CRAFT: And, Mr. Massan, is
- 19 that going to have an impact on your commercial
- 20 activities, but also your food?
- 21 ELDER NOAH MASSAN: Yeah, because my
- 22 brothers -- my brother and my helpers are still
- 23 trapping. They're doing good. What's going to -- I
- 24 asked them before too, my dad and my grandpas, we used
- 25 to make our area. We don't have one (1) year or one

PUB re NFAT 04-25-2014 8254 (1) place. We switch around and make a big circle. Now, my brother was telling me we can't do that now, because you might as well catch whatever you can catch 3 in that area, because Hydro's going to destroy that land, our trapping area. 6 MS. AIMEE CRAFT: Thank you. Elder Beardy, this is a -- a quote, just to -- to wrap 7 up this section on -- on the present and -- and move us into the -- the -- into talking a bit more about the 10 past. But can you share your understanding of -- of 11 what it is that is being said here? 12 13 (BRIEF PAUSE) 14 15 ELDER FLORA BEARDY: 16 "Our legacy should be a better one 17 than we have now." 18 What legacy do we have left? In my 19 community, the water has been -- is no good. You know, we can't drink the water. The fish is no good in our 21 area. You have to go further away to get fish. What

swimming in the river, they come out, they're covered

with some film. And then they go in and shower and

The kids can't swim -- if they go

kind of legacy does that leave us in our community?

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23

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8255 sometimes our water's just brown. So what -- what do you do? 3 The -- when they were talking about houses here, that's -- we have the same problem with our houses. They're not -- like my Hydro bill isn't as high as Ivan's, but it -- for the past four (4) months now, I've been paying over \$400. And it's because we don't have proper doors or porches on them and the -and you can just feel a draft go through. So what kind 10 of a legacy is Hydro leaving in our communities? 11 MS. AIMEE CRAFT: Thank you, Elder 12 Beardy. M. President, (FRENCH LANGUAGE SPOKEN) for a 13 break that would be welcomed by the panel. 14 THE CHAIRPERSON: Let's take ten (10) 15 minutes. Thank you. 16 17 --- Upon recessing at 10:30 a.m. 18 --- Upon resuming at 10:47 a.m. 19 20 THE CHAIRPERSON: If everybody can get 21 into position, we will continue with the proceedings 22 please. Thank you for that. 23 Mme. Craft, s'il vous plait? 24

25 CONTINUED BY MS. AIMEE CRAFT:

- 1 MS. AIMEE CRAFT: Merci, M. President.
- 2 So now we're going to be changing -- shifting gears a
- 3 little bit and -- and looking at the past, in
- 4 construction, infrastructure, and Northern development
- 5 in -- in the communities and territory that we're
- 6 speaking of. And this is an image that Mr. Jack Massan
- 7 and Ms. -- or Elder Christine Massan have shared of the
- 8 Nelson River.
- 9 And can you describe a little bit about
- 10 -- about this picture and -- and the caption that's
- 11 under it which is, "Remembering to bring your cup"?
- 12 ELDER JACK MASSAN: Yeah, that was
- 13 quite a while ago. We use to go paddling around just
- 14 below where the Limestone Dam is now. We used to go
- 15 paddling -- paddle across the river. But the woman
- 16 that raised me, my mom, if I -- you what -- the first
- 17 thing you -- tell me is that -- that (CREE LANGUAGE
- 18 SPOKEN), is, Don't forget your cup, because all we
- 19 needed was a cup. You know, we could just take some
- 20 water out of the river and we -- we all -- we drive a
- 21 drink.
- But now, we can't even do anything about
- 23 that -- that water is so dirty and so much silt and
- 24 sand and whatever. Going, there's -- there's a --
- 25 everything just floating by. There's a lot -- it was a

- 1 good while ago this guy -- just a memory, (CREE
- 2 LANGUAGE SPOKEN), and that was the main thing, is don't
- 3 forget your cup. That's -- you know, we didn't have to
- 4 worry about water.
- Now, we have to worry about -- we have
- 6 to stop where the creeks are to get our water when we
- 7 go down the Nelson River. So now it's -- because we
- 8 can't drink that water anymore. It's so dirty.
- 9 I just -- yeah, I just -- there was one
- 10 time we went -- we went setting a net by Jackfish
- 11 Island, we call it. We set a sturgeon net then went
- 12 and pitched up our tent. The next morning we went and
- 13 looked at it. We couldn't even our -- that net out of
- 14 there. There was so much dirt and everything was just
- 15 -- it -- it was so heavy, you couldn't -- you would
- 16 have to have to drag it to the shore. That's how much
- 17 all that thing was going down that river, the Nelson
- 18 River, what used to be the Kichesippi, the Great River.
- 19 And now it just -- as I was talking about, I just
- 20 can't...
- 21 Anyway, that's -- remember to bring your
- 22 cup. That's all -- my mom used to tell me that.
- 23 MS. AIMEE CRAFT: And this next image,
- 24 you mentioned earlier, this -- that there are more than
- 25 one (1) -- there's more than one (1) name for the

- 1 river. And --
- 2 ELDER JACK MASSAN:
- 3 Pawaynagonnaykowsipi, yeah. Pawaynagonnaykowsipi.
- 4 That's -- well, I guess that's what our Elders called
- 5 it because that's when they used to come from York
- 6 Factory, Port Nelson, all that, you know,
- 7 Pawaynagonnaykowsipi. They didn't have to worry about
- 8 anything else. It's...
- 9 Maybe Flora will do a little bit more.
- 10 ELDER FLORA BEARDY: The -- the Elders
- 11 call the Nelson River -- the original name is the
- 12 Pawaynagonnaykowsipi. And in English that means that
- 13 river was so clear that you could see the gravel on the
- 14 bottom of that river, but it's not like that now.
- And when they say, "Kichesippi," that
- 16 was the Great River. That was the other name for it.
- 17 But it's just been blocked up in different places that
- 18 it's not the Great River anymore. And all the rivers,
- 19 of course, that we -- that were used as highways for
- 20 our people a long time ago, and still do in some areas.
- 21 MS. AIMEE CRAFT: And fishing is a
- 22 historical use on the river?
- 23
- 24 (BRIEF PAUSE)
- 25

- 1 ELDER FLORA BEARDY: Yes. Oh, that was
- 2 me. The -- the people would come from York Factory and
- 3 Port Nelson and go up to Jackfish Island, the island
- 4 Jack mentioned. And they would fish there for a few
- 5 days, clean and smoke their fish, and then take them
- 6 back to where they came from. And that was a
- 7 traditional thing that was done every year.
- 8 ELDER CHRISTINE MASSAN: I remember as
- 9 a child growing up living on fish all the warm months
- 10 of the year and into just before freeze up. And we
- 11 would have fish boiled, fried, dried, smoked, you name
- 12 it. As a child, I remember eating the inner parts of
- 13 the fish, the stomach. My mother taught me how to
- 14 clean with a flick of the thumb. And then you would
- 15 pan fry it along with the roe, the eggs which became
- 16 popcorn for many of us. That was -- I mean, we can't
- 17 eat fish anymore like this.
- This is a picture of my great
- 19 grandfather holding a 45 pound trout quite a few years
- 20 ago. I don't know if we'd ever find anything that
- 21 large again, but, yes.
- 22 MR. IVAN MOOSE: The -- the insides of
- 23 the fish, too, I remember, they used to use -- there's
- 24 a little tubing. They call it a (CREE LANGUAGE
- 25 SPOKEN). It's like a gut. They used to make a hole at

- 1 one end, and they'd pour milk or tea, and they'd use it
- 2 as a baby bottle. So there was a lot of uses for the
- 3 fish of all -- all kinds of uses that are lost.
- 4 MS. AIMEE CRAFT: Thank you. Now, this
- 5 next image is of the Nelson River and one (1) of the
- 6 dams. And, Mr. Noah Massan, can you describe to us
- 7 which -- which dam that is?
- 8 ELDER NOAH MASSAN: I think that's
- 9 Kettle River -- Kettle Dam, I mean. That's the point
- 10 around. Oh, okay.
- MS. AIMEE CRAFT: And this one here?
- 12 ELDER NOAH MASSAN: That's Long Spruce.
- 13 That's the one we go over.
- 14 MS. AIMEE CRAFT: Okay. And did you
- 15 work on these dams?
- 16 ELDER NOAH MASSAN: I worked in every
- 17 dam that's near my community, even Conawapa, before --
- 18 before Cona -- Conawapa was moved this way, towards
- 19 further down. I worked in all the projects. Like, I
- 20 worked for Midwest and all that, okay.
- 21 MS. AIMEE CRAFT: And you made a good
- 22 living working for -- for Hydro on the dams?
- 23 ELDER NOAH MASSAN: I made a good
- 24 living. But now as you get older, how much I looked at
- 25 in the back, you know. I helped destroy my community

- 1 and the river too just to make money, you know. I
- 2 admitted saying that.
- 3 And here also mention from my -- Fox
- 4 Lake. They were training to be operators on Portage la
- 5 Prairie. I was wondering why this Mr. Huff (phonetic)
- 6 come and got me at that -- I was in that air base
- 7 that's outside of Portage there, south side, I don't
- 8 know what hell you call it, south.
- 9 Anyways he said, Those guys at Catskin
- 10 (phonetic) just want to talk to you. And I say, What
- 11 do they want? I don't know. So I said, Wait until I
- 12 finish the laundry, 'cause I used to do things for the
- 13 -- the students, you know. So anyways, we went out
- 14 there. And of course, the late Marley Spence
- 15 (phonetic), he come to me and tell me he met him. And
- 16 young Robby Nickway (phonetic), all right, George
- 17 (phonetic), you're thirty-five (35) years on the
- 18 equipment, he says, and Mr. Huff looked at me -- that's
- 19 Manitoba Hydro by the way.
- 20 He come to me, he said, You run
- 21 machines? Yeah, these are little toys compared to what
- 22 I run. I run big machines. The old loader I run is a
- 23 992. You're sitting about 12 feet up in the air, like
- 24 a nice little office, but you're rocking and your
- 25 loading rock. And those are -- the biggest one is D11

- 1 I run. This one is just a small D6.
- 2 They were doing -- the students were
- 3 doing -- farmers that watered their -- they were doing
- 4 what the cattle drink, I guess. I don't know. It's
- 5 new to me, too. They dug a hole deeper, and they were
- 6 sloping it. They wanted to put that barbed wire. They
- 7 didn't want the like cattle go back in.
- 8 So they asked me, Douggie (phonetic),
- 9 this little short guy, he heard about that machine,
- 10 it'll tip like this, on the slope. So anyways I got on
- 11 there. When I was walking over to that other machine
- 12 that other come running to me. He said, Where you
- 13 going? Mr. Huff told me to run this machine. Then he
- 14 asked me the same question, You ever run machines
- 15 before? I told him the same story. I asked him what
- 16 they wanted to do.
- 17 I did this in not even half an hour, and
- 18 I -- and so he told me what to do. You do it in little
- 19 short site. But I went ahead and did all that, the
- 20 whole thing. I think I only made about twelve (12)
- 21 passes.
- 22 MS. AIMEE CRAFT: And so all that --
- 23 all those things that you were doing, that was based on
- 24 your years of experience and -- and training on working
- 25 on the dams and construction there on heavy equipment?

- 1 ELDER NOAH MASSAN: That's right. I
- 2 had a lot of teachers in my past, too.
- 3 MS. AIMEE CRAFT: Do you -- do you know
- 4 a lot of people from your community and the surround
- 5 communities -- I mean, Tataskweyak, York Factory --
- 6 that are also heavy -- heavy machine operators?
- 7 ELDER NOAH MASSAN: Well, they have --
- 8 I went twice to Portage la Prairie. They had people
- 9 there. Split Lake, too. And I don't -- not York
- 10 Landing, I don't think. Just Split Lake and Gillam. I
- 11 was mentoring there, sort of babysitting them, I guess,
- 12 so they don't go any haywire.
- 13 MS. AIMEE CRAFT: And are -- are a lot
- 14 of these -- a lot of the community members that were
- 15 trained working right now on projects?
- 16 ELDER NOAH MASSAN: Not really. You
- 17 got to have five (5) years experience on these
- 18 projects. That's only one thing that -- sure there's
- 19 training for our people and the other people. But when
- 20 -- when you got to go to work there, these contractors,
- 21 they want five (5) years' experience under your belt --
- 22 or say under their belt. That's how much experience
- 23 you want -- they want. They don't want to hire you
- 24 because you -- you did equipment.
- 25 You know, there are lots of good

- 1 operators. All you need is give them opportunity to
- 2 try to -- you know, you can put them on something like
- 3 packing or something like that, you know. I started
- 4 off thanks to Cary Sergeant (phonetic), his little
- 5 brother took me that day. He -- he saw -- treat me
- 6 like a -- he always -- I look up to him as a, I don't
- 7 know, mentor or something 'cause he's the one -- I
- 8 think, 'cause we keep working, I end up to be what I
- 9 wanted to be.
- 10 MS. AIMEE CRAFT: Mr. Massan, do you
- 11 have any concerns about what some of Fox Lake members,
- 12 or other -- other -- the First Nation community members
- 13 might have to do in the context of their employment?
- 14 So this is a picture, and you asked me to take this
- 15 picture of -- of this particular area on the side of --
- 16 of the road.
- 17 Can you tell us why it was important for
- 18 you to show this picture?
- 19 ELDER NOAH MASSAN: Like -- like when
- 20 you're in Gillam, I don't know how many of you guys
- 21 travel that road between Long Spruce and Limestone, but
- 22 you see all these gravel pits. Manitoba Hydro didn't
- 23 real clean their -- their mess after they built a dam.
- 24 You know, I worked in there to see it. I know these
- 25 trees. One (1) Elder from Benito, Manitoba, Scottie

- 1 Mackie (phonetic), one (1) time we were having coffee.
- 2 Hey, Noah, do you feel guilty knocking all these nice
- 3 beautiful trees? And look what Manitoba Hydro's doing.
- 4 When they're finished with a pit, they don't put the
- 5 trees back in. They're still buried under this pile
- 6 of... You go back in our community and you see these
- 7 little hills. That's trees under there. Why can't
- 8 they push them out? When I was doing that, I asked
- 9 that inspector, How come they're not pushing the trees
- 10 back? Costs too much.
- 11 What are you talking about, I told him.
- 12 He didn't -- you -- you shouldn't complain about it
- 13 when you are knocking the trees down, because money was
- 14 no problem. Now, there's a problem to put the thing
- 15 back. Like, this is forty (40) years ago, maybe
- 16 longer. You know, I think if they would have put all
- 17 these trees and run over the dead trees, I think the
- 18 trees would have grown back eventually, or seed them.
- 19 Put that back -- material back in the
- 20 pit. They're no good, you know. That's what the Hydro
- 21 should do now, like -- like what they're doing South
- 22 Indian Lake, they're cleaning up. I think after this
- 23 partner of mine said to me so...
- 24 And there's some people -- like, there's
- 25 some -- I know where these consultants, they -- they

- 1 bury a lot of stuff like steel and that, instead of
- 2 shipping it all around. They bury a lot of steel. I
- 3 can show you guys where these -- all these, and they're
- 4 digging more pits. There a whole lot of debris and
- 5 everything, metal and everything, they buried them in
- 6 there, you know. They should clean that mess up.
- 7 They're starting to stick out, these steels, in...
- MS. AIMEE CRAFT: Elder Massan, do you
- 9 have any other comments to add in relation to this
- 10 slide?
- 11 ELDER JACK MASSAN: When we're doing
- 12 the -- the Sundance camp, we're digging all the
- 13 trailers out of there, there's a -- the double-wides,
- 14 that we took all the double-wides out, but there's
- 15 still some trailers there, single-wide trailers. But I
- 16 know for sure, there's about four (4) -- or four (4) of
- 17 them.
- 18 And they had a -- a reservoir of
- 19 Sundance. There was that big hole where they had that
- 20 water for -- there was a big hole there, so instead of
- 21 taking those trailers to where -- someplace, they --
- 22 they just shove them in that hole and buried -- buried
- 23 all the stuff in that -- that big -- big hole. There
- 24 was at least four (4), three (3) or four (4) trailers
- 25 that's in th.

2 didn't take those trailers someplace and -- instead of

- 3 par -- burying them in the -- in that ground. It
- 4 just...
- 5 Another thing I was going to bring up
- 6 was that Conawapa, where they're going to have that
- 7 Conawapa dam, when we go -- when we want to go down the
- 8 river, like on Saturday -- Saturday morning, we have to
- 9 wait till about 1:00 -- one o'clock in the afternoon
- 10 before the water comes.
- 11 You can damn near walk across that
- 12 Nelson River. That's how -- that's how the water --
- 13 that's how low the water is. And I told her, it's -- I
- 14 said, My God, that -- the -- the river was high, even
- 15 the mosquitos could walk across that river. So just --
- 16 even on Saturdays and Sundays. And then when you go
- 17 down river, you can see the -- where the -- the
- 18 shoreline is, you know, and -- and then when you come
- 19 back up, all you can see was willows sticking out of
- 20 the grou -- out -- out of the water, because that's how
- 21 high the water comes up again.
- 22 That's below Conawapa dam. So it's --
- 23 it's just -- I don't know. And when you go down that
- 24 river and when you come up, you hit these trees that's
- 25 floating down the river, you know, and sometimes you --

- 1 then -- then you're tip over your -- your boat, and I
- 2 don't know why they don't...
- 3 Anyway, in Stephens Lake, they have
- 4 somebody there that clears everything you guys -- all
- 5 the Hydro -- all the Hydro cabins are on those islands.
- 6 They look after that lake better than what they're
- 7 going to look after down below, where we do our -- our
- 8 hunting, trap, and fishing and all that.
- 9 So yeah, the water is just so -- I don't
- 10 know. That's -- that's all I can -- because I had to
- 11 bring that up, so. And -- and now the -- the lake,
- 12 what she said, the security was so -- so you can't even
- 13 go down there anymore, because you have to -- when you
- 14 go down, if you want to go to Port Nelson or York
- 15 Factory, you have to wait for that dye -- tie -- high
- 16 dye -- high tide to come up, so.
- 17 And then you have to wait for the -- the
- 18 water to come up on that Nelson River before you can go
- 19 down, so you're going to have to stay by Gillam Island
- 20 there. Maybe the water will go overnight before you
- 21 can continue your trip. Before, you didn't have to do
- 22 that. You -- you could go down there. We could go
- 23 wherever we want. Now the water gets so God -- low,
- 24 and -- and it's so hard to -- it's -- takes you longer
- 25 to get to where you want to go. Before, you know,

- 1 you'd jump on your boat and you can go down, but now
- 2 you have to wait for the water to come up through.
- I'm really sad to bring that up. I know
- 4 it's pretty hard for us, it is, to have the water so
- 5 low because of its...
- 6 ELDER NOAH MASSAN: Hello? What Jack
- 7 is talking about there in that forebay is Stephens
- 8 Lake, Manitoba Hydro got boat patrol program going on
- 9 there since 2008. There seems to be -- because Hydro
- 10 got cottage winters there. What I had looked at was
- 11 some people. They say, It's like they're looking after
- 12 this cottage owners around that community. They all
- 13 got a boat patrol there. It starts pretty soon now, I
- 14 guess, until fall.
- I know there's two (2) Band members
- 16 working there and former Hydro guys, the boss. They
- 17 seem to be looking after Manitoba Hydro or these owners
- 18 better than the people that live in -- harvesters, like
- 19 me, Jack, the river, you know? You know, just -- just
- 20 got to change, you know?
- 21 And they -- I know they harm my Band,
- 22 too, they have -- they clean up debris just where the
- 23 public can see, but they don't clean the whole
- 24 shorelines. They clean in front of Kettle and saddle
- 25 dam and by the -- where the -- by the airport there

- 1 where they go swimming, dike 4, dike 5, dike 6, and the
- 2 boat launch, just where the people -- the public can
- 3 see it's clean, but they don't do all the whole area.
- 4 You know, it'd be nice if you guys will
- go see that, like, they say clean energy. What are
- 6 they talking about, clean energy, the -- you know? You
- 7 guys -- that's another thing, too. Manitoba Hydro are
- 8 always bringing people up in the winter. You can't see
- 9 all the debris floating around in the ice. When you
- 10 come in the summer, they get to experience what they
- 11 see, all these islands, lots of wood drifting.
- 12 Like I said our scouts had much. One
- 13 (1) time, I got a big midnight, what they call is that
- 14 big Long Spruce. We couldn't even lift my net up. We
- 15 had to cut that net because we couldn't pull that --
- 16 our net up. It was catching. But I still go fishing.
- 17 Like, I might be on this thing but I still can take
- 18 fish out of the net and tie a boat, you know. Thank
- 19 you.
- 20 MS. AIMEE CRAFT: Thank you. So now
- 21 we're going to shift to the third part of the -- the
- 22 presentation, which is dealing with the future and
- 23 particular concerns relating to the future, and the
- 24 first slide is just to situate ourselves and -- and
- 25 better understand where each of the communities is in

- 1 relation to the proposed Keeyask generating station,
- 2 and Conawapa is -- is further up outside of -- of this
- 3 map area, but it gives a good indication of existing
- 4 projects and -- and one (1) proposed project in each of
- 5 the communities that we're -- we're discussing today.
- 6 And this next slide, I'm going to ask
- 7 Mr. Spence to -- to describe what it is that he wanted
- 8 to share in relation to -- of the future.
- 9 MR. ROBERT SPENCE: What I said here,
- 10 We were born into the shadow of one time and we'll die
- 11 in -- in the shadow of another. I meant by saying this
- 12 that what Manitoba Hydro does, they do not grow from.
- 13 You don't -- you don't learn from your mistakes. You
- 14 don't want to open your eyes to what you see you do to
- 15 the land and the environment, to people, the animals.
- 16 I'm forty-four (44) years old. There
- 17 are other people who are older -- a lot older than me
- 18 who have seen the construction of this dam. I would
- 19 have figure -- I would have hoped that by now that
- 20 there would have been technology available to get away
- 21 from disastrous developments like that development.
- I was born under the Kel -- the shadow
- 23 of the Kelsey dam. Now it looks like I'm going to die
- 24 underneath the shadow of another. So are the rest of
- 25 my people -- our people. Keeyask. What I meant by

- 1 this was, whatever Man -- Manitoba Hydro touches, they
- 2 kill. They're like a cancer on the land, on the river,
- 3 on the people, and the environment. That's what I
- 4 meant by this.
- 5 Your clean, renewable energy posters
- 6 don't fly with our people, with the grassroots people.
- 7 That's advertising. Window dressing. That's what that
- 8 is. We see what is really going on. We're part of it.
- 9 We're the water. We're the land. We're the air.
- 10 We're everything that the environment is. You can't
- 11 lie to us.
- 12 You can't paint pretty pictures on
- 13 posters and plaster them all over Manitoba and the
- 14 United States, and tell us what you're doing is clean,
- 15 renewable energy. You can't do that to us. You can't
- 16 make us believe what you're doing is good for the
- 17 environment. We're not going to believe this, these
- 18 blatant lies that you're telling to the whole world.
- 19 What you see there, that looks like the
- 20 -- in my eyes, the end of an era for a free people.
- 21 You're killing us every day. I'm sorry, Ila, I -- I
- 22 have to mention this. When North-South consultants
- 23 paid by Manitoba Hydro to do all the aquatics
- 24 environmental studies with their fancy gadgets came
- 25 into our -- our territory, and other territories to do

- 1 their studies, they did a lot of work carrying threads
- 2 around, throwing orange peels in the water after going
- 3 to university for years, to see how fast the orange
- 4 peel flows from one point to another. They had to go
- 5 university for that?
- 6 All you have to do is open your eyes to
- 7 see what is really going on there. I don't know why
- 8 we're even here in the first place to discuss the
- 9 rights and wrongs and pros and cons of what's going on
- 10 out there. I don't even understand why it should even
- 11 be an issue. What we breathe is the air that's all
- 12 around us. So do the trees, the same trees that you
- 13 kill and knock down and destroy every day.
- 14 Those same trees that grow along the
- 15 shorelines you see here, they're leaning towards the
- 16 water like as if it was a medieval moat to protect the
- 17 castle. The water is so powerful, so manipulated now,
- 18 that these trees can't pro -- protect our castle no
- 19 more. It's not protecting us anymore, the same waters
- 20 that we lived off of.
- 21 Throughout our history as a people are
- 22 the same waters that Manitoba Hydro are using to
- 23 killing us -- to kill us today. The same water that
- 24 gave us life is killing us today, and (CREE LANGUAGE
- 25 SPOKEN). We can't drink it. (CREE LANGUAGE SPOKEN).

- 1 I go out on the land, we go out on land all over.
- 2 Many times I respect what Jack said.
- 3 (CREE LANGUAGE SPOKEN). Don't forget your cup. Bring
- 4 your cup. That's so true when you go out on a land
- 5 away from the Hydro-affected river systems. All you
- 6 need to is dip your cup in the water and drink it. You
- 7 don't need no fancy Brita water filters. You don't
- 8 need none of that.
- 9 Nature does that all on it's own, but
- 10 our river can't do that anymore. It just can't. It
- 11 can't heal itself anymore. Nature has a way of healing
- 12 itself, but because the river systems all across this
- 13 land of ours are so manipulated, it can't heal itself
- 14 no more.
- Our river system, lakes, and watersheds
- 16 are like a big artificial aquarium now, controlled by
- 17 man, by Manitoba Hydro. Is this the legacy that we
- 18 want to leave for our kids, or us as a people, for you,
- 19 for us, everybody? I'm not only talking for the First
- 20 Nations people, but I'm talking for everybody as a
- 21 whole, Europeans or whatever they -- you -- they -- we
- 22 all come from.
- 23 For instance, the Nelson River is dying
- 24 so fast now that from year to year I can't even find
- 25 myself to go back out to practice the traditions of my

- 1 people as much as I used to, because I can't stand to
- 2 look at her dying. It's hard. Like I said before,
- 3 it's like watching your mother die of cancer every day.
- 4 The river system -- the Nelson river
- 5 system -- it can't heal itself anymore. Everything
- 6 that is there is like a boundary. All the lines on a
- 7 map, you see all the dikes, dams, diversions,
- 8 powerlines, gates, all of that. Do you know what does
- 9 -- do you know what that does to us? That's like
- 10 restricting me in my movements, the movements of the
- 11 land -- the movements of the animals on the land, the
- 12 people.
- I try to get away from all of this once
- 14 in a while just to go to refresh my being -- to recoup.
- 15 I've gone to places up north where I -- where I hoped
- 16 that I would get away from all of this so-called
- 17 development. I went up north, 60 miles north of our
- 18 community to Recluse Lake, a traditional area as a
- 19 Tataskweyak people. There was a -- there's a
- 20 settlement there. Our people are buried there.
- I went there with Elders that have gone
- 22 long before us already. They're gone. I valued the
- 23 company that I shared with them. They were a strong,
- 24 proud people. Boy, they kept you grounded. They kept
- 25 you humble. I loved those people with all my heart,

- 1 and a lot of people that are here today.
- I went there to get away from all this
- 3 development. To go recharge my -- my batteries, to go
- 4 just get away. Well, I felt better the further I went
- 5 -- the further I went. Keep going. Keep going, I kept
- 6 telling myself. I got to where I wanted to go, that
- 7 was Recluse Lake or (CREE LANGUAGE SPOKEN), that's its
- 8 traditional name. (CREE LANGUAGE SPOKEN), big trees.
- 9 (CREE LANGUAGE SPOKEN), Little Stranger River
- 10 (phonetic) is what it's called, connected to (CREE
- 11 LANGUAGE SPOKEN), Big Stranger River (phonetic).
- 12 And I sat there in that cabin. I
- 13 thought, Oh, I'm away from all of this. I can feel
- 14 better. I got out of the cabin and I looked across the
- 15 lake. What do I see? A water gauging station put up
- 16 by the province or Manitoba Hydro. It doesn't matter
- 17 who put it up there. The province is Manitoba Hydro.
- 18 Manitoba Hydro's the province. Canada. It doesn't
- 19 matter what -- what you want to call it.
- 20 Manitoba Hydro measures the wat -- the
- 21 amount of water that they can get out of there. Their
- 22 piggy bank now. That's what they're using that lake
- 23 as, the whole river systems in Manitoba, their piggie
- 24 banks. The Churchill River diverted into the Nelson.
- 25 The sturgeon dying out at Churchill River. There's

- 1 only about a thousand plus, maybe seventeen (17),
- 2 fifteen hundred (1,500) sturgeon left.
- 3 What's going to happen with those
- 4 sturgeon? They're genetically distinct. Found out by
- 5 North-South consultants, Manitoba Hydro's own studies.
- 6 There was sturgeon up at Fiddler Lake twenty (20) years
- 7 ago, there's none now. That's the last time anybody
- 8 from TCN has gone up there to fish for sturgeon.
- 9 Billard Lake, seventeen (17) years ago, eighteen (18)
- 10 years ago there was sturgeon there. I was there. I
- 11 seen them. There's none there now. North-South
- 12 studies, camp, whatever you want to call it, only found
- 13 one (1) -- one (1) adult sturgeon on that lake, Billard
- 14 Lake.
- I told an Elder Noah Garson (phonetic)
- 16 this, when (CREE LANGUAGE SPOKEN). That can't be, he
- 17 said to me. What happened to them? (CREE LANGUAGE
- 18 SPOKEN). They've been all killed off. That can't be.
- 19 (CREE LANGUAGE SPOKEN). No, that can't be, he said.
- 20 He was in disbelief that there weren't any sturgeon
- 21 left at (CREE LANGUAGE SPOKEN), the traditional name
- 22 for Billard Lake.
- Now, the only place that there are any
- 24 sturgeon left on the whole Churchill River is at the
- 25 mouth of (CREE LANGUAGE SPOKEN, Little Churchill --

- 1 Little Stranger River, at the junction of (CREE
- 2 LANGUAGE SPOKEN), Big Stranger River. What's going to
- 3 happen with those sturgeon there, and what's happening
- 4 to them now? Are the -- is the same thing that's going
- 5 to happen to the sturgeon on the Nelson, because
- 6 Manitoba Hydro wants to build a dam right on a well-
- 7 known documented sturgeon spotting site at Gull Rapids.
- 8 Everything that Manitoba Hydro touches
- 9 dies. Everything. They're killing me today. They're
- 10 killing us. We're dying. (CREE LANGUAGE SPOKEN). We
- 11 can't do nothing about what is going on, but at least
- 12 we can certainly try by helping each other here today.
- 13 We're our support. We're not -- we don't do this for
- 14 your benefit. We're not here for your benefit to make
- 15 you look good, Manitoba Hydro, no.
- 16 This is your legacy right here. That is
- 17 not ours. I am not your partner. I will never be your
- 18 partner until you clean up your act. Until you --
- 19 enough of the studies of the fish and animals. Enough
- 20 of them.
- 21 Start doing something about what you did
- 22 already to make the future better for our people, for
- 23 all of us. Quit messing everything up you touch.
- 24 Ekosi.
- 25 MS. ILA DISBROWE: When he talks about

- 1 North-South, like, I grew up in that (CREE LANGUAGE
- 2 SPOKEN) where you're building that -- where you're
- 3 going to build Gull Lake. My grandpa -- that was my
- 4 grandpa, George Sanders's (phonetic), trap line -- trap
- 5 line 15. My grandpa, George Sanders, drowned, went
- 6 through the ice in Stephens Lake with his son, and then
- 7 my brother drowned in Gull Lake.
- Just -- just in that area where they're
- 9 going to build a dam, there's Caribou Island, and
- 10 there's this -- we call it Leon's Island (phonetic),
- 11 very sacred to us. They never recovered my -- my -- my
- 12 late -- my baby brother's remains.
- We were always told, Look after each
- 14 other. (CREE LANGUAGE SPOKEN). We always had to watch
- 15 out for our brother. He couldn't speak, but we
- 16 understood what he wanted. We knew when he wanted to
- 17 eat, we wanted -- when he was thirsty, when he was
- 18 cold. We knew, just like we know our -- our
- 19 environment is dying.
- 20 North-South was doing studies on
- 21 animals, fish, rodents, insects. Not once did they
- 22 ever come to us and ask us how it affected us mentally,
- 23 emotionally, our health, how it's killing us, and then
- 24 what's killing us.
- 25 And before, we were able to go Gull Lake

- 1 at peace. That was our sanctuary. That was our home,
- 2 and when the water level goes down, my family, we still
- 3 had hope to go look for our brother. All these years
- 4 we still do that, wait for the water levels to go down,
- 5 then we go scour the -- scour the shorelines.
- 6 When that dam goes up, all is lost.
- 7 They'll never -- because that island will be underwater
- 8 -- most of the area would be underwater, and they
- 9 minimize by using these small numbers, how much they're
- 10 going to flood that area.
- 11 How do they know? They're not God.
- 12 Only our Creator knows what's happening to our land,
- 13 and they -- and I see their reports, how they predict
- 14 the future on how the dams will affect us, but we
- 15 already know how -- how it's affected us with the other
- 16 dams.
- 17 It's our heart that's broken. I watched
- 18 my brothers drown themselves in alcohol because they --
- 19 we watched our mom die of cancer, and we're doing it
- 20 again. We're watching our Mother Earth die of cancer,
- 21 and that's Hydro. Where is all that support? Where's
- 22 all these studies that affected inninuwuk? Where's all
- 23 that report?
- 24 We don't even have doctors in our
- 25 community. There's a high rate in -- in our community

- 1 of cancer, diabetes, hypertension, stillborns. Where's
- 2 -- where's their report on that? There was never a
- 3 health needs -- a -- an assessment done on our
- 4 communities.
- 5 And really -- and the conditions we -- I
- 6 raised my kids in Split Lake, and when you look around,
- 7 twenty (20) year -- twenty (20) -- my daughter's
- 8 twenty-four (24). Twenty-four (24) years ago, it still
- 9 looks the same today. There hasn't -- they are
- 10 claiming they spent millions on our communities, but it
- 11 was only for their negotiations. They weren't allowed
- 12 to spend any in our communities. It never reached our
- 13 communities.
- 14 How can they claim they spent all this
- 15 money, and we have all this benefits? Where is it?
- 16 Why is -- why are homes infested with mould? Why are
- 17 our homes -- there's people in our own territory
- 18 homeless. There's -- in Split Lake, there's a high
- 19 rate of unemployment. Where is all this training
- 20 they're talking about? Where are all these jobs they
- 21 claim we have?
- 22 And how do you expect our people to --
- 23 on that thing they have, JRS, when they ask you, You
- 24 have to have a permanent resident. Where you are from?
- 25 You have to prove it. How can our people prove where

- 1 they are when they -- when there's thirty (30) people
- 2 in one (1) home, and there's only one (1) person that
- 3 has that address? How can you prove it when you don't
- 4 have a bank account when you're on welfare?
- 5 How can you have a -- a phone when you
- 6 don't have a job? Those are the obstacles our people
- 7 face, but all these claims that they have this rosy,
- 8 beautiful pictures on them. Just like when -- when
- 9 you're driving -- I had this dream -- I -- it keeps
- 10 haunting me, and that dream was so powerful last night.
- 11 We were in a boat, my family was in
- 12 these boats, because we're river people. In this
- 13 dream, there was a storm heading our way, and we were
- 14 trying to -- like we were trying to go to shore, but
- 15 all I seen along the shore was jagged rocks, just like
- 16 a Berlin Wall, and we couldn't -- an old man just
- 17 behind me, You quys, (CREE LANGUAGE SPOKEN), what's
- 18 going to happen to our kids? And I looked around
- 19 looking for an Elder, looking for our grandfather who
- 20 was talking to me.
- 21 We couldn't go to the shore, because the
- 22 shore was already damaged by Manitoba Hydro with their
- 23 jagged rocks. We couldn't pull our boat. We couldn't
- 24 go to the shore because our boats get damaged.

8283 1 (BRIEF PAUSE) 2 3 MS. ILA DISBROWE: And our -- what -there is this young man driving along the shoreline, and he was trying to come up -- come up from where -from the ice, and then he fell through it, because he 7 couldn't come up because of their -- what do they -their diking, that riprap they did in our community. 9 You can't even (CREE LANGUAGE SPOKEN). I see people, Where do I -- where do I go to -- towards 10 11 the lake? They look for spots how to get down to the 12 river, because they already trapped us in our 13 community. That's our daily life. I have so much to 14 say but... Thank you for -- for 15 MS. AIMEE CRAFT: 16 sharing that. We're going to turn to Christine Massan, 17 and -- and this is when we talked about the future --18 this is the first thing that you mentioned, was that 19 language is culture and identity, and the first thing we should talk about is our language, and can you 21 explain to us why that's important to you? 22 ELDER CHRISTINE MASSAN: I was talking 23 about the -- on how -- when everything is in focus and 24 balance, and everything we talk about is our language, 25 our culture, our identity. It's all interwoven. Our -

- 1 our language, foods we eat, it's all a part of us.
- 2 We are the Cree and we speak the Inninu language. We
- 3 are the Inninuwuk.
- 4 And it is so strong and powerful that
- 5 we've been working with some of the youth trying to
- 6 bring the language back into their communities, and it
- 7 is very difficult, and it goes back to several reasons.
- 8 Number 1) the parents have came back from residential
- 9 school, and how they were made to feel, how they were
- 10 punished every time they spoke Cree, and then some of
- 11 them came back home and Manitoba Hydro had already
- 12 demolished some of the houses along the main street to
- 13 make room for what they wanted, and anybody -- body
- 14 that got caught -- that was heard speaking Cree was
- 15 called down -- they were called squatters. They were
- 16 made to feel that to be Cree, to be an Inninu was an
- 17 evil thing.
- And so we have a big age gap between the
- 19 very young today and the, say, about forty (40) --
- 20 forty (40) years old people, it would be mid-range.
- 21 There's a big gap in there that we're trying to fill
- 22 very hard, and I'm working with some other educators in
- 23 trying to do everything we can. As a teacher, I have
- 24 known many things. I have noticed many things.
- 25 Even reading a legend to a classroom of

- 1 students, a mixture of classroom students, those that
- 2 were the Inninu children would start to make noises and
- 3 be disruptive because they were so ashamed that I was
- 4 sharing a legend, a story about their past, and that is
- 5 what hurt the most and I was powerless to do anything,
- 6 but they didn't stop me, I kept reading stories. I
- 7 talked to the children individually.
- I have worked with children all my life.
- 9 I was born with thirteen (13) younger siblings and a
- 10 few older, and that is what I believe my life was, to
- 11 work with the youth forever. My dreams are filled with
- 12 nightmares where I'm fighting to save the children from
- 13 all the water that is coming.
- 14 I am fighting for housing. These are my
- 15 dreams. How am I going to be able to help? My whole
- 16 living being is based on trying to save the culture,
- 17 trying to help the students and the young people be
- 18 proud of who they are. The community that we live in,
- 19 Manitoba Hydro has done a real number on them.
- 20 And what I said yesterday was, Living
- 21 with the people in Gillam is not bad. It's not bad at
- 22 all. I have a lot of good friends that work for
- 23 Manitoba Hydro. It's their bosses, however, is telling
- 24 them what to do. Do they have to do such a good job of
- 25 it?

- 1 You know, there was a lot of -- a
- 2 shortage of land for trailers in Gillam as they were
- 3 getting ready to build the Keeyask dam and the Conawapa
- 4 dam, you know. And -- and there was the town of
- 5 Gillam, Fox Lake Cree, and Manitoba Hydro, they also
- 6 wanted this land, so they divided it up. Manitoba
- 7 Hydro faced their trailers there, oops, and they faced
- 8 their trailers going this way.
- 9 Well, they were taking up twice as much
- 10 space. And I respect the fact that they wanted a good
- 11 yard. That wasn't even bad. You know what they
- 12 started doing in the wintertime? They hired these
- 13 contractors to come around and put a fence around every
- 14 trailer, even giving more division. My neighbours have
- 15 this great big, high fence. All along there are about
- 16 five (5) or six (6) trailers all fenced in separately
- 17 between our house and Noah's house. And they, for so
- 18 many years, kept saying: We want to help. We want to
- 19 be able to work with you.
- I was hired as a community liaison
- 21 officer to shorten that bridge, that gap between Fox
- 22 Lake and Manitoba Hydro. I don't feel that was even
- 23 honest, the way that they continue to make divisions.
- 24 MS. AIMEE CRAFT: Elder Massan...?
- 25 ELDER CHRISTINE MASSAN: M-hm.

- 1 MS. AIMEE CRAFT: Just coming back to
- 2 that question of language. I wanted to ask you if you
- 3 were aware of programs that are associated to, for
- 4 example, Keeyask and the adverse effects agreements as
- 5 an offsetting program that are meant to increase the
- 6 use of the Cree language and -- and language
- 7 instruction, and do you view those as a potential
- 8 positive benefit?
- 9 ELDER CHRISTINE MASSAN: It is a
- 10 positive -- it is very positive, the few programs that
- 11 I have. I mean, I help put on some culture awareness
- 12 workshops with two (2) other people, and they were
- 13 excellent. I mean, people were wonderful taking them.
- 14 But outside the workforce it's kind of different.
- I don't know how controlled they are.
- 16 And so we're working on trying to get more funding so
- 17 we can hire a teacher just to -- just to teach Cree on
- 18 the -- on the school on the reserve. And so throughout
- 19 the day every day we give a little bit of instructions
- 20 in Cree to the kids, you know, (CREE LANGUAGE SPOKEN),
- 21 those kinds of things, so that they get used to -- used
- 22 to it a little bit. I mean, at least they can go home
- 23 and say something.
- 24 MS. AIMEE CRAFT: Thank you. And being
- 25 mindful of the time, we have a few more slides. And a

- 1 lot of the issues that we're going to look at in the
- 2 next few slides have already been touched upon because
- 3 these are issues that you've expressed as important to
- 4 you. So we --
- 5 ELDER CHRISTINE MASSAN: And I have one
- 6 (1) more questions.
- 7 MS. AIMEE CRAFT: Go ahead.
- 8 ELDER CHRISTINE MASSAN: Okay, I want
- 9 to stand up for this one, please. I've been thinking
- 10 about this for the longest time. And you can sort of
- 11 know -- you can now tell that we're not for any more
- 12 dams. Enough already. Do something else.
- But I wanted to talk to the people, ask
- 14 the people that work for Manitoba Hydro, whoever they
- 15 are, if you were in our place, if you did not work for
- 16 Manitoba Hydro or the province, what would your
- 17 thoughts be today? You know, would you be all gung ho
- 18 for building a new dam or would you say, No, hold it,
- 19 that's enough, that's enough now?
- 20 Mother Earth is spitting back all the
- 21 garbage that they have buried on there, can't handle no
- 22 more. There are fires everywhere. Canada and the
- 23 United States is all having floods, tornados. That's
- 24 not normal. We are causing all that with the
- 25 destruction of Mother Earth in our life, nipi.

- 1 MS. AIMEE CRAFT: Thank you. And as we
- 2 go through the next few slides I'd like you to keep in
- 3 mind one (1) question, and -- and we'll -- I'd like
- 4 each of you to answer it at the end.
- 5 Can you think of other alternatives that
- 6 might be better for you than to build more hydro dams?
- 7 And a second question, which is: Do -- the benefits
- 8 that might come from hydroelectric development, are
- 9 those enough to outweigh the potential negative impact,
- 10 in your view, on your socioeconomic and health
- 11 interests?
- 12 Okay, so those are two (2) things I'd
- 13 like you to keep in mind as we go through. And these
- 14 are issues that you've identified and -- and pictures
- 15 that you shared, erosion and -- and debris, and, you
- 16 know, shorelines that are receding.
- 17 And -- and, Ila, this is a photo of your
- 18 grandmother, is that correct? And the shoreline is now
- 19 10 feet further in than it was when this picture was
- 20 taken?
- Is that correct?
- MS. ILA DISBROWE: Yeah.
- 23 MS. AIMEE CRAFT: And can one of you
- 24 share with us some of your concerns around water
- 25 quality, in particular, swimming?

- 1 MR. ROBERT SPENCE: I would like to
- 2 share a fact with you about this picture here. I don't
- 3 know if this is a mother, a sister, or a niece, but the
- 4 reason why she's standing there in that water is
- 5 because there is no other place within reach of our
- 6 community to go have that kind of fun, or that -- that
- 7 sort of recreation anymore.
- 8 By putting either niece, daught --
- 9 daughter, in that water, she's risking this kid's
- 10 health. A lot of times our kids go into that water and
- 11 come out with a grey film all over their body. I've
- 12 had an employee from Manitoba Hydro laugh at me when I
- 13 stated this fact in Split Lake.
- 14 By putting -- by allowing and putting
- 15 this kid in the water this way, this child, they're
- 16 risking infection. Sores. Like, as if they were in a
- 17 third-world country right smack dab in the middle of
- 18 Canada. Can you believe that? In Canada, third-world
- 19 country water is degrading, and unhealthy, and unfit
- 20 for drinking and swimming. Ekosi.
- 21 MS. AIMEE CRAFT: Thank you. This is a
- 22 picture of the gate at the Keeyask infrastructure
- 23 project, and Mr. Jack Massan, could you comment on how
- 24 the road across a Keeyask dam might improve access, and
- 25 how that might be a potential benefit to your

8291 community, and also any concerns you might have with increased road access? 3 (BRIEF PAUSE) 5 6 ELDER JACK MASSAN: That road, it's -it's a long ways from our -- where our community is. 7 This is a lot closer to -- excuse me -- Split Lake and that. It's -- it's more -- but whatever happens to this place, it's -- it will be like all -- all our --10 all our people will be the same thing. 11 12 I mean, the Earth where we were born, 13 it's always the same. We're in the different places, 14 but when we're in the bush, everything is still the 15 same. But now -- now they're pushing all these roads 16 and everything all over the place. I don't know, it just -- I just got -- like I said, it's closer to Split 17 18 Lake and that, and where Fox Lake is, but whatever 19 happens there, we're -- we still -- yeah, just... 20 MS. AIMEE CRAFT: Mr. Moose...? 21 MR. IVAN MOOSE: They say this road'll 22 -- for us, I guess, our -- our benefit is supposed to 23 be that it cuts at least, I don't know, forty-five (45) minutes to an hour to go to Thompson, but I think it's 24 25 more -- more of a benefit to Hydro to keep -- keep them

- 1 from going all the way around.
- 2 But that road opens the door to more
- 3 people to come to our community, too. There's going to
- 4 be a lot of strangers coming into our community again,
- 5 as it was before. We've told these stories over and
- 6 over again, talked to everybody, but every time a
- 7 little project starts or any project starts, they got
- 8 us running around like little -- little chickens, going
- 9 and ask the same questions.
- 10 And we tell them, We've asked these
- 11 questions before. And what did they say to us? It's a
- 12 different dam. No. It is a different dam, but same
- 13 effect. It's going to bring in more drugs. As it is
- 14 now, we've got a lot of drugs at home. It's going to
- 15 bring in the gangs that sell those drugs, or have
- 16 people selling drugs for them. It's going to open the
- 17 door for people to come to our communities, because we
- 18 have a bar there.
- 19 A lady eloquently put it at the CAC
- 20 hearing from Hydro, said when we asked, What's it going
- 21 to do about the workers? He said, Oh, we've got a good
- 22 plan, she said. Well planned, they're going to have a
- 23 -- a bar at the camp. They're going to have
- 24 recreational facilities at the camp, you know, for the
- 25 workers.

- I don't know where this lady was, she
- 2 wasn't thinking right, because they had all those in
- 3 previous dams and they still came to our community,
- 4 still came to Gillam. We were the ones that were
- 5 getting slaughtered. You know, that opens doors to
- 6 destruction. It's not Hydro construction, it's Hydro
- 7 destruction for our people.
- MS. AIMEE CRAFT: Thank you. M.
- 9 President, if we could have a few moments just to
- 10 regroup and discuss how we may shorten this -- given
- 11 the time frames that we have, that would be much
- 12 appreciated.
- 13 THE CHAIRPERSON: Okay. How much time
- 14 do you need?
- MS. AIMEE CRAFT: Approximately ten
- 16 (10) minutes.
- 17 THE CHAIRPERSON: Okay. Let's take ten
- 18 (10) minutes, but we're going to -- we're going to
- 19 continue after the ten (10) minutes. That's our
- 20 intention to continue. Thank you.
- MS. AIMEE CRAFT: Thank you.
- 22
- 23 --- Upon recessing at 11:51 a.m.
- 24 --- Upon resuming at 12:09 p.m.
- 25

8294 THE CHAIRPERSON: I believe everyone is 1 in position, so Mme. Craft, s'il vous plait. 3 MS. AIMEE CRAFT: Merci, M. President. We just wanted to note for the -- the Board that Mr. Moose has had to step out for a medical emergency. We understand that there may be some questions for him either from the Board or -- or on cross-examination. 7 We'd be happy to receive any of those questions in writing and -- and to undertake to have responses, if 10 that's acceptable to the Board. 11 THE CHAIRPERSON: Yes, it is. Thank 12 you. 13 14 CONTINUED BY MS. AIMEE CRAFT: 15 MS. AIMEE CRAFT: Thank you. So we'll 16 carry on with the road access issue and I'd like to ask Elder Noah Massan if having access to -- or a shorter 17 18 road into Gillam through the Keeyask dam is a -- a 19 potential positive benefit in your view? 20 ELDER NOAH MASSAN: Well, the concern I 21 got if there's going to be a road there my trap lines 22 is going to be real destroyed, all that traffic going 23 to go through there. What are they going to do with 24 that 280 road? Are they going to give it back to the 25 animals from -- from Keeyask Road to Long Spruce? Are

- 1 they going to dismantle everything? You know, if
- 2 they're going to try and build that road, the -- the
- 3 sound of it isn't going to build it. I'm concerned
- 4 about my trap line because there's about fifty (50) --
- 5 fifty-two (52) culverts between north spruce and then
- 6 at the junction of Long Spruce.
- 7 MS. AIMEE CRAFT: Let's move to jobs
- 8 and training. And here we have two (2) images. And --
- 9 and Mr. Massan, you're -- Mr. Norm Massan, you're going
- 10 to recognize yourself in some of these pictures. One
- 11 (1) of them is a heavy equipment operator training
- 12 certification that you received. And you're also one
- 13 (1) of the -- the people in the photo on the Fox Track
- 14 -- Tracks newspaper or community newspaper with the
- 15 heavy equipment trainees.
- 16 Do you recognize yourself in those --
- 17 those pictures?
- 18 ELDER NORM MASSAN: Yep.
- 19 MS. AIMEE CRAFT: Can you tell us how
- 20 you were involved with the heavy equipment training?
- 21 ELDER NORM MASSAN: Well, it all
- 22 started when I brought that issue about Mr. Huff
- 23 Manitoba heavy -- when those -- those three (3)
- 24 operators that wanted to see me over there when I was
- 25 running a dozer. And then I was mentioning those guys

- 1 in that -- that picture and then I was in York Landing.
- 2 Manitoba Hydro hire -- they asked me if I want to be an
- 3 instructor in York Landing.
- So I said, Sure. I'll go there. And
- 5 the picture there's a Al DeHolland (phonetic) used to
- 6 be a key person, that little short guy there. We were
- 7 certified around October, I think 6, and 2008, I think.
- 8 I was surprised too when I got that certificate and
- 9 that other guy too was surprised.
- 10 MS. AIMEE CRAFT: How many people in
- 11 this picture are now working as heavy equipment
- 12 operators? Do you know?
- 13 ELDER NORM MASSAN: Okay. There's two
- 14 (2) on highways, Morris Anderson (phonetic) and there
- 15 was another guy hired about three (3) years ago after
- 16 we did that training in York Landing, Lawrence Mayham
- 17 (phonetic), and Charles Spence (phonetic). He took
- 18 truck driving and heavy equipment. He's working for
- 19 Hydro, but he's in the stores. And Val Muskins
- 20 (phonetic), my sister's daughter Arlene (phonetic) and
- 21 his (sic) husband. And Brandon Wavy (phonetic) he's
- 22 working out at Thompson, and he's working on a -- on
- 23 the transmission line this year. He always comes to me
- 24 when he comes to Gillam, Noah, I'm still hanging onto
- 25 my job. I said, that's good. And Hydro is giving him

- 1 a chance to run machinery. And he's driving trucks
- 2 'cause he's got that license too.
- 3 MS. AIMEE CRAFT: Thank you. And
- 4 generally people that have been working as heavy
- 5 equipment operators and in other trades, have they been
- 6 keeping their jobs?
- 7 ELDER NOAH MASSAN: Yeah. And some of
- 8 them never got hired because they need five (5) years
- 9 experience. You know, some of them are still waiting.
- 10 They're not getting the opportunity that they try in
- 11 certain places. Even right now Conawapa, they're not
- 12 giving them a chance to work, you know. And they got
- 13 lots of concerns here, too. Our leaders are not doing
- 14 nothing about it to help them.
- They seem to be coming to me. I've got
- 16 nothing to do with that, but they -- they said, You've
- 17 been working all these construction union and all that,
- 18 how did they do it before way back? I said, you've got
- 19 to have a shop steward representing you that's the guy
- 20 to see.
- 21 MS. AIMEE CRAFT: Do any of the other
- 22 panel members have any concerns about employment?
- 23 MS. ILA DISBROWE: There's a lot of
- 24 Band -- our Band members in Split Lake that were laid
- 25 off to do their turnaround and stuff. They were never

- 1 called back. And there's a lot of people waiting on
- 2 the list for JRS and have never been called. So why is
- 3 that?
- 4 I asked one -- one (1) contractor why
- 5 that happens. I don't know, I never see -- in his
- 6 word, Never seen this person on my list, he says. So I
- 7 don't know what happens to -- to the JRS. I don't know
- 8 why our people are not being called back when they
- 9 worked there before.
- 10 And all these claims that we're working,
- 11 and they make it sound like our people don't want to
- 12 work but they do. They're on -- waiting. Most of them
- 13 don't have phones.
- 14 MS. AIMEE CRAFT: Thank you. Let's
- 15 turn now to housing and heating, and this is a photo of
- 16 your trailer, Noah Massan, and the trailers beside you
- 17 are Manitoba Hydro employee trailers.
- 18 Can you tell us about any concerns that
- 19 you have about housing conditions? We've talked about
- 20 that already today but specifically about heating and
- 21 heating costs.
- 22 ELDER NOAH MASSAN: I just got a notice
- 23 about a month ago. I've been paying on this -- this
- 24 plan they've got. Three hundred (300) -- I pay three
- 25 forty (340) every month for my Hydro bill. Then I just

- 1 got a notice on the bill there, they were trying to
- 2 disconnect my -- my Hydro because my Hydro bill -- like
- 3 I've been paying three forty (340) right through, but
- 4 suddenly it jumped up. And this guy never come to our
- 5 meter to check our meter 'cause the snow is too high.
- But what I'm doing now, I'm checking the
- 7 meter every month. On the 14th a guy call me from
- 8 Winnipeg. I'm doing your guy's job now, I guess.
- 9 MS. AIMEE CRAFT: And are you -- you
- 10 doing this because you're concerned about how much you
- 11 have to pay and balancing your budget?
- 12 ELDER NOAH MASSAN: That's right. And
- 13 those trailers, too, in between me and Jack, and
- 14 there's some trailers between us, and staff houses he -
- 15 by the hospital road there. You know my former Chief
- 16 Walter Brady (phonetic) wanted that land to build
- 17 houses. They said there wasn't going to be nothing
- 18 there. There was -- it was nice there. They put lawns
- 19 there.
- 20 Look what Manitoba Hydro did last -- a
- 21 couple years ago. They put these trailers. There was
- 22 saving that land between me towards town, and between
- 23 Jack and that. They put these trailers now. See,
- 24 Hydro -- see what Hydro -- Manitoba Hydro doing is
- 25 taking the lots, and they told the Band people there

- 1 were nothing going to be built in there.
- MS. AIMEE CRAFT: Thank you. The other
- 3 concern relating to the -- the future that's been
- 4 expressed by all of the panel members already today is
- 5 health.
- 6 And Elder Christine Massan, could you
- 7 explain to us what some of the -- the health concerns
- 8 are, and -- and the perspective on health that your
- 9 panel is bringing, and would like the Board to know
- 10 about?
- 11 ELDER CHRISTINE MASSAN: Okay. We were
- 12 talking about eating things that are good for you,
- 13 eating things that don't have a lot of additives and
- 14 MSG and all that stuff in it, because it's -- it isn't
- 15 good for you. And I have mentioned it several times
- 16 today about the fish that we were basically raised on
- 17 when we were kids that we no longer can eat.
- 18 We eat caribou and moose, chickens,
- 19 rabbit. Like we eat as much as we can off the land.
- 20 And when we do that we are in better health than when
- 21 we're going to the store to buy all the -- not just the
- 22 fast foods and all that, but even the beef, the pork,
- 23 and that has some additives to it. The growth hormone
- 24 and other things that they put in food.
- You know, we talked about the geese. My

- 1 granddaughter who I didn't think would ever really like
- 2 eating wild food, like (CREE LANGUAGE SPOKEN); that's
- 3 the Cree call (CREE LANGUAGE SPOKEN), like real food.
- 4 And my granddaughter just loves it when we cook and
- 5 she'll come over and eat. And she's -- some of you
- 6 might have met her. She was here for the last hearing.
- 7 She was one (1) of the youth doing a presentation.
- But, yeah, that's where it goes. And we
- 9 used to have -- pickerel used to be pretty good
- 10 commercial fishing in the Gillam area, but he's been
- 11 told that he -- he said he can't fish there anymore
- 12 because of the mercury. That's -- that's put a damper
- 13 to his business. And so what I had to do the last time
- 14 we wanted fish, we got it from a resource user in York
- 15 Landing that went to a prime -- a prime place, a place
- 16 that hasn't been touched by anybody yet and that's
- 17 where we got our thing of -- a big package of pickerel.
- MS. AIMEE CRAFT: And --
- 19 ELDER CHRISTINE MASSAN: And that's
- 20 what we mean. And Elders have been saying that long
- 21 before us, (CREE LANGUAGE SPOKEN) that all this other
- 22 foods you get munjuice (phonetic). And they say
- 23 munjuice is a cancer. That's what they talk about,
- 24 yes.
- MS. AIMEE CRAFT: And do you have any

- 1 concerns beyond the physical health effects that might
- 2 be related to future development?
- 3 ELDER CHRISTINE MASSAN: (CREE LANGUAGE
- 4 SPOKEN). Oh, physically it kind of puts a -- a limit,
- 5 maybe I can use, on where you can go. You can't go to
- 6 some of the places you had used before for your annual
- 7 gatherings and your places you would go pitch up a tent
- 8 and to spend the weekend with your family sharing
- 9 stories.
- 10 And just the bonding of the family of
- 11 the people is not always there when you want to go out,
- 12 because you're prevented from going anywhere for the no
- 13 trespassing signs that they post up. And it's not good
- 14 for us. Certainly don't feel good about it not being
- 15 able to -- even just walk down a track and make a small
- 16 fire to cook a few wieners. You know, it's pretty
- 17 simple, but we can't do stuff like that anymore because
- 18 everything is controlled beyond out -- beyond us. We'd
- 19 kind of like to have some of those things back, but I
- 20 don't think so.
- 21 MS. AIMEE CRAFT: And, Elder Beardy,
- 22 you and -- and other Elders from your community have
- 23 already expressed concern about caribou.
- 24 Can you tell us what in particular
- 25 you're concerned about in relation to these -- the

- 1 socioeconomic prospects? So, you know, how your
- 2 community members can feed themselves, but also any
- 3 other impacts that -- the impact on caribou might have
- 4 on the people of your community?
- 5 ELDER FLORA BEARDY: Well, we were
- 6 fortunate this year that the caribou came close to the
- 7 community again. So we were able to harvest them and -
- 8 and everybody in the community was able to eat
- 9 caribou, fresh caribou meat. But in the past, I've --
- 10 I've often wondered how healthy are these caribou.
- 11 Like, they eat moss, you know, but everything that goes
- 12 up in the air comes down on the ground, and where does
- 13 it end up and how are these caribou affected.
- 14 But with the caribous that we've been
- 15 harvesting, like when you clean them and you cut them
- 16 up, we have -- I haven't myself seen any -- any
- 17 sickness in them or, you know, sometimes when you open
- 18 up a beaver you see puss inside, and you can't eat
- 19 that, you know. We don't have any beaver or muskrat in
- 20 our community anymore.
- 21 But the -- the biggest concern we had
- 22 were the woodland caribou in the area. And there --
- 23 and there's a couple of guys from Split Lake,
- 24 Tataskweyak, that got a woodland caribou close to
- 25 Kelsey and another one on -- by Keeyask last fall.

- 1 So we've been saying for years that they
- 2 are there, they are there, you know, just -- this young
- 3 fellow didn't know what kind of caribou that was. He
- 4 had to go ask his father. And his father told him
- 5 that's a woodland caribou. But those are the ones that
- 6 we're worried about. If the dam goes -- if the dam
- 7 goes up will these caribou be protected? They don't go
- 8 -- roam very far, the woodland. They're not like the
- 9 other -- the -- the northern herd, what we call Pasko
- 10 Atikok; that's -- that's barren ground caribou. That's
- 11 Beverly and the Qamanirjuaq herds. They -- they travel
- 12 long distances.
- 13 The -- the Cape Churchill herd is
- 14 another herd between Churchill and -- and Gillam that
- 15 stay along the coast. And then, of course, the Pen
- 16 Island herd that comes from the east. Those travel
- 17 long distances, but not the woodland caribou.
- And, you know, we've always lived on
- 19 caribou. And it -- it's so -- I think it's important
- 20 to find out what their health is like today. And I
- 21 think with -- they migrate in certain areas. And if
- 22 there's like roads cross -- if there's roads built and
- 23 -- and they can't cross at a certain point in the
- 24 river, a dam is built, then what's going to happen to
- 25 them?

- 1 MS. AIMEE CRAFT: Thank you, Elder.
- 2 And this question is for Mr. Noah Massan. I'm told
- 3 that this photo is of a fish that you kissed?
- 4 ELDER NOAH MASSAN: That's right.
- 5 MS. AIMEE CRAFT: Can you tell us about
- 6 any concerns you have relating to fish, including
- 7 namao, the sturgeon fish?
- 8 ELDER NOAH MASSAN: Okay. This is the
- 9 -- below Long Spruce. At one time, North-South said
- 10 there was only one (1) sturgeon in that between Long
- 11 Spruce when they did their study between Long Spruce
- 12 and Limestome. So the professor, Jerry Dick
- 13 (phonetic), asked Hydro if we can go fishing. We're
- 14 going to prove them wrong. There's sturgeon in there.
- 15 Sure enough, me, Jack, and Johnny (phonetic) went. We
- 16 started from Limestone and we set sturgeon.
- 17 And we found sturgeon where North-South
- 18 didn't go, and it's only what's in front of that dam on
- 19 the side of the spillway. We caught it and I took it
- 20 out. And then I put it in the water. And this thing,
- 21 after he went in the water he jumped right out of the
- 22 water maybe 3 feet. And Jack and Johnny just laughing
- 23 now, maybe he wants another kiss, he says.
- 24 But I'm concerned about sturgeon, too,
- 25 and not just sturgeon, the other fish, too. You know,

- 1 what's going to happen if Conawapa goes? There's talk
- 2 right now they're starting to come back towards
- 3 Limestone after Limestone was there. What's going to
- 4 happen to the other fish, not just the sturgeon? We --
- 5 we eat the other fish, too. Like there's mariah. They
- 6 don't talk too much about mariah or the trout.
- 7 Look how far Dotch Stone (phonetic) said
- 8 they had to go to get a trout. They had to go Way
- 9 River (phonetic), you know. Look at -- I keep thinking
- 10 about the Elders. (CREE LANGUAGE SPOKEN); that's
- 11 another word, our river system is getting shorter
- 12 because of these dams. That's why community, they were
- 13 concerned about Kettle. But there were nothing studied
- 14 doing about. They wanted fish ladders built in these
- 15 things, and it's not happening. They're not thinking
- 16 about the fish going up, you know. They should have
- 17 fish ladders that they -- at least they can come up,
- 18 you know.
- 19 MS. AIMEE CRAFT: Thank you. So we're
- 20 -- we're going to go back to that question that I asked
- 21 you to think about before we -- we had a break. And
- 22 are there any alternatives that you can think of to
- 23 building hydroelectric development that would be
- 24 acceptable to you, and is building further hydro
- 25 electric development access -- acceptable based on the

- 1 benefits and the potential negative impacts on you, as
- 2 Inninuwuk?
- 3 And maybe I'll start with Elder Jack
- 4 Massan on that question.
- 5 ELDER JACK MASSAN: Excuse me. Are
- 6 there alternatives, you...? Well, let's -- well, the
- 7 one (1) thing I was -- like I brought up once already
- 8 is instead of building those two (2) dams, that's when
- 9 I said, Why don't they put -- put higher, bigger
- 10 generators on the dams that are already there. If they
- 11 want more power, they should put bigger...
- But I asked that question, like I said
- 13 before, and they never -- the only thing I told me was
- 14 they need more water to put bigger generators on those
- 15 dams. But, I mean, the other alternative, I don't know
- 16 which, I guess these big towers with those windmills
- 17 or...
- But trying to save the water, trying to
- 19 save the Nelson River now, it's already damaged so
- 20 much. So whatever is left, I don't know. The fish
- 21 must be -- they can't do anything about it. The
- 22 water's so dirty right now.
- 23 MS. AIMEE CRAFT: And in your view,
- 24 should Keeyask and Conawapa be built?
- 25 ELDER JACK MASSAN: No. I just -- like

- 1 I said, what I just finished telling you guys, why
- 2 don't they just forget about Conawapa and Keeyask,
- 3 yeah, don't -- don't build it.
- 4 And there's another thing I was going to
- 5 bring up, but I don't know, it's -- these -- like on my
- 6 trap line, Manitoba Hydro gave us a list to the
- 7 trappers, saying that the trapper has -- he should --
- 8 Hydro would hire a trapper to do the monitoring on --
- 9 on his own trap line.
- 10 But my trap line's been -- been worked
- 11 on already, for I don't know how long now, at least a
- 12 year and a half. And Hydro hasn't even -- hasn't even
- 13 come and asked me what -- you know, didn't hire me or
- 14 anything. They don't -- the only thing I see on those
- 15 -- on my trap line is, No trespassing, no trespassing,
- 16 you know. How are you supposed to do the monitoring
- 17 when they do -- when they're working on my trap line?
- 18 The same thing as that Bipole III. They
- 19 were supposed to hire me, but, no. Yeah, that's --
- 20 well, that's the only alternative. I mean, just forget
- 21 about building that Keeyask and Conawapa, because they
- 22 already got that (CREE LANGUAGE SPOKEN) generating
- 23 station going already. It's been going for a while
- 24 already, and it's -- that's what I mean. That's what
- 25 they're supposed to hire me to do monitoring on, on

- 1 what they're doing in that bush. But, no, nobody ever
- 2 come and talk to me about it or...
- I mean, Hydro wrote out a list what --
- 4 what the trappers are entitled to do when they're
- 5 working on their trap lines, but, no, nobody comes.
- 6 Thank you.
- 7 MS. AIMEE CRAFT: Elder Christine
- 8 Massan...? And again, we're -- the same question on
- 9 alternatives and whether or not you think Hydro -- the
- 10 two (2) Hydro dams, Keeyask and Conawapa, should be
- 11 built.
- 12 ELDER CHRISTINE MASSAN: Well, I've
- 13 done quite a bit of reading on alternatives, and
- 14 whether it be wind or gas powered furnaces or whatever
- 15 that last study was, and I -- I'm not sure which one
- 16 will be better. It's possible that maybe somebody
- 17 should do a study on -- on the different methods of
- 18 power -- generating power, and picking one that's going
- 19 to do the least amount of damage. Benefits towards us
- 20 in building the dam just -- I knew ago.
- 21 I did -- when I was talking about the
- 22 Cree language just a little bit ago when I was -- got
- 23 sort of emotional, I forgot to mention that Manitoba
- 24 Hydro in their agreement had agreed to pay Fox Lake
- 25 Cree Nation twenty thousand dollars (\$20,000) a year to

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- 1 teach the Cree languages in school. But that's not
- 2 even enough monies to -- to hire one (1) person to do
- 3 that at a -- as a full-time job, let alone start buying
- 4 all the supplies, the books and things that you need.
- 5 And, so I guess what I'm saying is that
- 6 if I look at the land, (CREE LANGUAGE SPOKEN) land and
- 7 (CREE LANGUAGE SPOKEN), and if I look at all the earth,
- 8 the land, the water and our plate -- sorry I do that --
- 9 and the plate that we talk about, there's so much
- 10 damage to it that nobody -- you know, even though Ivan
- 11 said we did give a thousand dollars (\$1,000) for a one
- 12 time thing with Fox Lake, it's nice to be given
- 13 something some time without any other attachments.
- 14 But it's the -- we need to do a little
- 15 bit more to be able to protect the three (3) basic
- 16 elements that I talked about: The land, the air, the
- 17 fish. And so, yeah, I would like to see a big study
- 18 done on the different methods of generating power. And
- 19 I would like to be -- have it presented to me so that
- 20 we understand and basically the terms, and the
- 21 terminology -- scientific terminology that they use
- 22 because that was never done.
- No, I think the best thing for Manitoba
- 24 Hydro and the province of Manitoba to do would be just
- 25 no more dams until we can already -- we can fix what

- 1 we've done already. Thank you.
- MS. AIMEE CRAFT: Thank you. Ms.
- 3 Disbrowe...?
- 4 MS. ILA DISBROWE: Other alternatives.
- 5 I can only see solar panel or windmill 'cause I don't -
- 6 I don't see any benefits with hydro. I -- I was
- 7 sitting here, what are the benefits for Hydro when all
- 8 it's done was tear our community apart. Yeah.
- 9 It's just -- what do you do when you
- 10 have a clogged artery? That's what our -- that's
- 11 what's happening in our river. It's clogged. What do
- 12 the doctors do when they clog -- when your artery is
- 13 clogged? They unblock it. They'll heal. Not block it
- 14 some more.

15

16 (BRIEF PAUSE)

- 18 MR. ROBERT SPENCE: (CREE LANGUAGE
- 19 SPOKEN). Today in the paper I read about Nelson House,
- 20 about the partnership that they had with Manitoba Hydro
- 21 and the amount of monies that they lost this year
- 22 alone. And the number of people that work at Wuskwatim
- 23 today. It said four (4) people full time compared to a
- 24 couple thousand that live there.
- 25 So if you ask a person like me I say,

- 1 No. No to more Hydro dams. It just costs too much.
- 2 And I'm not thinking dollar wise neither. I myself, to
- 3 support my family, I hunt, fish, trap, I carve, I
- 4 paint, I do the odd welding jobs. Where -- wherever I
- 5 can -- whatever I can do to support my family, I'll do
- 6 it with these, with this, with this.
- 7 So with Hydro development it turns me
- 8 off. I see nothing positive about it. With the little
- 9 money that I do make here and there doing what I do,
- 10 fishing on a lake that's dead and dying already, for
- 11 peanuts. I'm still able to buy solar panels myself. I
- 12 can't afford the nice threads that a lot of you people
- 13 wear here today, but I sacrificed that for my kids and
- 14 my family. So do us -- all of us here.
- 15 And I myself bought solar panels. I
- 16 took the initiative to do that to show other people
- 17 that there are other alternatives. They're not as
- 18 expensive as they used to be. A few years ago I
- 19 started looking at them online. They cost an arm and a
- 20 leg. I couldn't afford them. But today I could afford
- 21 them because they're a cleaner, more renewable energy
- 22 than Manitoba Hydro is.
- For a person like me with a grade 9
- 24 education to be able to hook up a solar panel, anybody
- 25 can do it. Manitoba Hydro has all sorts of experts at

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- 1 their disposal. Why couldn't you figure out something
- 2 like that, or go with something like that. Put that on
- 3 your posters. Ekosi.
- 4 ELDER FLORA BEARDY: Well, I can't
- 5 think of any other alternatives. Elder Massan, I -- I
- 6 agree with everything Elder Christine Massan said, that
- 7 we have to look into the ones that she mentioned and
- 8 then with the solar power.
- 9 But if it does -- if there's any way
- 10 that -- if it doesn't happen that we can stop these
- 11 dams, I think Manitoba Hydro should stop and take a
- 12 look at all the damage that has been done in the past
- 13 to correct that. And if there's any way that they can
- 14 save the fish, do it. There's one (1) dam at Kelsey
- 15 there where there is a spot where they can open it up
- 16 and the -- and the fish would get by without going
- 17 through the turbines.
- 18 You know, things like this if they could
- 19 stop and revisit everything that -- that has been done
- 20 wrong in the past, you know, maybe things will work
- 21 better in the future. But we have to work together.
- 22 And any committees that come up, I suggest that all --
- 23 some -- the Aboriginal people, the Elders sit on those
- 24 committees, like the Monitoring Committee, the one (1)
- 25 for employment and -- and so on. That -- that's my

- 1 suggestion. Ekosi.
- 2 ELDER NOAH MASSAN: I agree to what the
- 3 other people say. Why is Manitoba Hydro for these dams
- 4 to go to please the neighbours in the States? Why
- 5 don't they build their own dams? They must have
- 6 rivers, or they've got natural gas. They say they got
- 7 natural gas. Why did they all come to us to power in
- 8 Manitoba? You know, Manitoba Hydro just -- (CREE
- 9 SPOKEN). My band got no money. Hydro's willing to
- 10 give them money for this dam, but we want payback.
- 11 You know, our -- our band is poor as it is. Why are
- 12 they putting us further in the hole?
- I think they should -- like I said to
- 14 chief and council, they don't realize -- like in the
- 15 past I sat in a committee and listen -- listened to --
- 16 maybe I sat in there fourteen (14) years, I think, in
- 17 that committee. I sti -- I saw a lot -- I looked -- I
- 18 saw it in the project description. But I was told to
- 19 observe by one (1) chief, but then -- and then I
- 20 started thinking, you know, they tell me though. And I
- 21 started thinking -- and I asked a couple people, What
- 22 the hell -- what's that mean? And they told me you
- 23 just sit there and listen, you know, but I -- I
- 24 couldn't do that, because I work in this -- in these
- 25 projects to see how they speak out, just like Long

- 1 Spruce there, like they'll keep you talk -- talking
- 2 about fish.
- 3 You know, they have big meetings about
- 4 fish, sturgeon in Thompson, a couple of places. Not
- 5 once Manitoba Hydro mentioned they got blocks below
- 6 Long Spruce, baffle blocks they call them. I'm glad I
- 7 was there to see. I brought that issue up to Manitoba
- 8 Hydro. You guys never bring this issue about what are
- 9 those baffle blocks are for?
- 10 But no, after I said that in Thompson,
- 11 some of those Hydro guys come to me and, How do you
- 12 know about these baffle blocks?
- 13 Hey, I worked in those projects to see.
- 14 I was in the right place the right time. I guess you
- 15 can say that, because I was an operator. I will tell
- 16 you, as a operator, I was running a grater or dozer or
- 17 a loader. I was all over the place with the grater
- 18 making roads, and I see these cement blocks that are
- 19 blocking the river.
- 20 When you lift the gate that spillway,
- 21 all those fish hit that baffle blocks I think, Well,
- 22 why are there fish are dead there, when Manitoba Hydro
- 23 says they're not killing fish? I don't think they
- 24 should build Keeyask or -- or Conawapa unless they do
- 25 more studies. I'd like to see more studies being done,

- 1 like, in -- in (CREE LANGUAGE SPOKEN), Gull Rapids.
- There's a island there where -- where
- 3 the caribou have their little ones. I'm pretty sure
- 4 that's going to be underwater, but Hydro said they're
- 5 going to put rock on there all around, like they did to
- 6 Split Lake. You know, that water's going to wipe out
- 7 that island.
- 8 Look at -- look at that Stephenson (sic)
- 9 Lake. You go to those islands. Too bad, you guys got
- 10 to come there and tour around the summertime. I'm
- 11 pretty sure Manitoba Hydro will do that for you guys,
- 12 come and look around. I took a professor there. At
- 13 the last hearing I took him around. He got to see the
- 14 stuff what we're talking about. He took pictures of
- 15 it. His name is Peter (phonetic). I had some
- 16 people...
- MS. AIMEE CRAFT: So Noah, just to
- 18 finish that off, in your view, in your opinion, is what
- 19 is good about economic development and development, is
- 20 that enough to justify building Keeyask and Conawapa?
- 21 ELDER NOAH MASSAN: I don't think so.
- MS. AIMEE CRAFT: Okay. Thank you.
- 23 I'd like to apologize for having gone over time, but in
- 24 -- in that same breath, also thank the panel members
- 25 who have demonstrated courage and have shared a lot of

- 1 personal stories and -- and experiences and -- and
- 2 highlighted for the Board members their views through
- 3 images and -- and words. And so I want to express the
- 4 gratitude of -- of the Consumers Association of Canada,
- 5 and -- and of myself personally, and the team that has
- 6 worked with -- with this panel, and -- and thank also
- 7 the Board for the opportunity for them to present, not
- 8 only as presenters, but as -- as fact witnesses and --
- 9 and to make that space for Elders' evidence and -- and
- 10 land -- traditional land users to be bringing that
- 11 perspective to the Board in your important task of
- 12 decision making in this NFAT proceeding.
- 13 The panel members, of course, are -- are
- 14 open to -- to questions from the Board and -- and any
- 15 of the parties.
- 16 THE CHAIRPERSON: Thank you. I have no
- 17 questions for the time being. I will canvass the --
- 18 the Intervenors to make sure that they have no
- 19 questions starting with you, Me. Hacault, s'il vous
- 20 plait.
- 21 MR. ANTOINE HACAULT: Merci, M.
- 22 President. I have no questions. I thank the panel for
- 23 an excellent presentation.
- 24 THE CHAIRPERSON: Merci, Mr. Hacault.
- Mr. Orle, please.

- 1 MR. GEORGE ORLE: Thank you, Mr. Chair,
- 2 and on behalf of MKO, I'd just like to thank the panel
- 3 for their presentation, and I have no questions of
- 4 them.
- 5 THE CHAIRPERSON: Thank you, Mr. Orle.
- 6 Mr. Shefman, on behalf of the Manitoba
- 7 Metis Federation?
- MR. COREY SHEFMAN: Yes, thank you, Mr.
- 9 Chair. On behalf of the Manitoba Metis Federation, I'd
- 10 like to thank the members of the panel for their very
- 11 interesting testimony today. We don't have any
- 12 questions for the panel.
- 13 THE CHAIRPERSON: Thank you, Mr.
- 14 Shefman. Me. Monnin, s'il vous plait?
- MR. CHRISTIAN MONNIN: Merci, Mr.
- 16 President. We have no questions. Thank you.
- 17 THE CHAIRPERSON: Merci, Me. Monnin.
- 18 Manitoba Hydro, please, any questions of
- 19 these witnesses?
- 20 MS. JANET MAYER: Monsieur, Manitoba
- 21 Hydro would also like to thank the panellists for
- 22 appearing today. It is certainly recognized that
- 23 appearing before a formal panel and taking a position
- 24 that may be different in some respects from that taken
- 25 by their community leaders and the majority of their

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- 1 community members who voted in favour of the JKDA and
- 2 the Adverse Effects Agreement can be difficult.
- 3 At the -- the CEC hearing, the
- 4 partnership took the position that community members
- 5 should have the opportunity to voice their opinions
- 6 without being subjected to cross-examination by it.
- 7 Most of these individuals had the opportunity to do so
- 8 at the -- the CEC hearing, expressing the very same
- 9 sentiments that we've heard today, and we feel that
- 10 they should be given that same deference here. For
- 11 that reason, Manitoba Hydro and its partners will not
- 12 be asking any questions.
- I do, however, wish to speak to one (1)
- 14 matter that was raised this morning. At the CEC
- 15 hearing and this morning as well, we heard about -- and
- 16 saw a picture about two (2) meters on Manitoba Hydro
- 17 housing. That issue was addressed by the partnership
- 18 at the CEC hearing and in fact, we prepared a written
- 19 answer to a question about that.
- 20 I have that here with you -- with me
- 21 today. If the panel would like to receive a copy of
- 22 that same document, we can certainly file it today.
- 23 THE CHAIRPERSON: Yes, we would
- 24 definitely like to see that document, please.
- 25 MS. JANET MAYER: I will file that,

- 1 then, when the proceeding concludes this morning.
- THE CHAIRPERSON: Thank you very much.
- 3 Mr. Peters, any questions for the panel?
- 4 MR. BOB PETERS: No, no questions
- 5 either, Mr. Chairman. I, too, appreciate the evidence
- 6 and the -- the witnesses coming forward today to share
- 7 their experiences and provide the information to the
- 8 Board, so there will be no questions on behalf of the
- 9 Board from this side. Thank you.
- 10 THE CHAIRPERSON: Thank you, Mr.
- 11 Peters. And with that, I think that ends the
- 12 proceedings for the -- the morning into the afternoon.
- 13 So obviously, I -- I hope that Mr. Moon -- Mr. Moose,
- 14 rather, gets through this emergency and in a way that
- 15 his health is not affected, and on behalf of the panel,
- 16 I want to thank all of you for being here today.
- 17 I know that you've travelled to come to
- 18 Winnipeg and you've taken the time and trouble to -- to
- 19 share with us your views about the projects and the
- 20 impact it's had on your community. So for us, it's
- 21 very important to hear that, because we -- we have
- 22 spent a lot of time hearing from experts and
- 23 consultants, and have read a lot of documents, so it's
- 24 -- it's good to hear from the people who are directly
- 25 impacted.

8321 It's important for us to -- to hear 1 that, and I thank -- and I want to thank you for -- for being here to -- to do that for us. So, thank you very 3 much for coming to Winnipeg, and with that, I -- I also hope that you have a safe trip home, and that you have a good, enjoyable summer. So, merci, Mme. Craft. 7 MS. AIMEE CRAFT: Merci, M. President. As protocol would dictate, we'll close with a prayer by 9 Elder Beardy. 10 11 (CLOSING PRAYER) 12 13 THE CHAIRPERSON: For the benefit of 14 those that will be here this afternoon, we intend to 15 resume the proceedings at 1:30. 16 17 --- Upon recessing at 12:53 p.m. 18 --- Upon resuming at 1:34 p.m. 19 20 THE CHAIRPERSON: I believe we can 21 start the proceedings. I believe everybody's in 22 position. And so I'll turn the microphone over to you, 23 Mr. Peters. 24 MR. BOB PETERS: Thank you, Mr. 25 Chairman. There might be a couple of matters -- myself

- 1 and Ms. Ramage may have a couple matters to speak to.
- 2 But this morning Manitoba counsel -- Manitoba Hydro
- 3 counsel, Ms. Mayer, indicated that the question about
- 4 two (2) meters on a home, I believe it was in Gillam,
- 5 was -- was raised in some of the photographs that were
- 6 put on the screen.
- 7 And Manitoba Hydro had a copy of a
- 8 written question and the written response given, I
- 9 believe, to the CEC, the Clean Environment Commission.
- 10 That has been given an exhibit number. And we should
- 11 just acknowledge that on the record as Manitoba Hydro's
- 12 next exhibit, which is --
- MR. KURT SIMONSEN: One eighty-one.
- MR. BOB PETERS: -- MH-181.
- MR. KURT SIMONSEN: Correct.

16

- 17 --- EXHIBIT NO. MH-181: Question and answer
- 18 regarding two (2) meters on
- 19 a home

- 21 MR. BOB PETERS: Thank you very much,
- 22 Mr. Simonsen. And then I'll turn it over -- sorry, I
- 23 believe --
- 24 MS. PATTI RAMAGE: That's what I was
- 25 going to do, too, Mr. Peters, so we're all on the same

- 1 page.
- MR. BOB PETERS: You're welcome. Thank
- 3 you, Mr. Chairman. That's all I have.
- 4 THE CHAIRPERSON: And just a reminder
- 5 to everyone, it's our intention to adjourn for the day
- 6 at five o'clock this afternoon so that five o'clock is
- 7 the witching hour. So with that I'll turn it over to
- 8 you, Mr. Williams.
- 9 MR. BYRON WILLIAMS: Yes. And thank --
- 10 thank you and good afternoon, members of the panel.
- 11 Before we ask that the witnesses be sworn or affirmed I
- 12 have, according to Ms. Fast, five (5) exhibits that I
- 13 wish to introduce.
- 14 You should have in front of you load
- 15 forecasting for the NFAT prepared by Drs. Simpson and
- 16 Gotham. We would recommend that be marked as CAC
- 17 Exhibit number 65.

18

- 19 --- EXHIBIT NO. CAC-65: Load forecasting for the
- NFAT prepared by Drs.
- 21 Simpson and Gotham

- 23 MR. BYRON WILLIAMS: And secondly, a
- 24 review of export price forecasts for the NFAT by Dr.
- 25 Gotham. And we suggest that be CAC Exhibit 66.

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8324
   --- EXHIBIT NO. CAC-66: Review of export price
 2
                               forecasts for the NFAT by
 3
                               Dr. Gotham
 5
                  MR. BYRON WILLIAMS: There should be a
   smaller document relating to the 2014/'15 planning
 7
   resource auction, or PRA, of MISO. And that should be,
   we would recommend, CAC Exhibit 67.
 9
10
   --- EXHIBIT NO. CAC-67: Document relating to the
11
                               2014/'15 PRA of MISO
12
13
                  MR. BYRON WILLIAMS: A much heavier
14 document. I believe that belongs to Mr. Harper. And
15 that would be his PowerPoint presentation, which would
16 be CAC-68.
17
18 --- EXHIBIT NO. CAC-68: PowerPoint presentation by
19
                               Mr. Harper
20
21
                  MR. BYRON WILLIAMS: And then again a
22
   smaller document, risk analysis in the NFAT, which
23 would be CAC-69.
24
25 --- EXHIBIT NO. CAC-69: Risk analysis in the NFAT
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8325 document 1 2 3 MR. BYRON WILLIAMS: And we'll sequentially move through those documents. If I could ask that the witnesses be sworn or affirmed. 6 CAC LOAD FORECAST, EXPORT REVENUES, AND ECONOMICS/RISK PANEL: 9 WILLIAM HARPER, Sworn (Qual.) 10 DOUGLAS GOTHAM, Affirmed (Qual.) 11 WAYNE SIMPSON, Previously Sworn (Qual.) 12 13 QUALIFICATION OF WITNESSES: 14 MR. BYRON WILLIAMS: Mr. Simonsen has 15 reminded me that Dr. Simpson has already been sworn in. 16 We're going to start, in terms of qualifications, with you, Dr. Gotham. And with Dr. 17 18 Simpson, you're the -- are the author of 'Standard Approaches to Load Forecasting and Review of Manitoba Hydro Load Forecast for the NFAT, which was filed in 21 February of 2014 and marked as CAC Exhibit 25? 22 DR. DOUGLAS GOTHAM: Yes. 23 MR. BYRON WILLIAMS: And that document 24 is accurate, to the best of your knowledge and 25 abilities, sir?

8326 DR. DOUGLAS GOTHAM: Yes. 1 2 MR. BYRON WILLIAMS: And the opinion presented in support of that document represents the 3 views both of yourself and Dr. Simpson? 5 DR. DOUGLAS GOTHAM: 6 MR. BYRON WILLIAMS: Sir, you are also 7 responsible for the report 'Review of Manitoba Hydro Export Price Forecasts for the NFAT', filed in February on 2014 and marked as CAC Exhibit 26? 10 DR. DOUGLAS GOTHAM: Yes. 11 MR. BYRON WILLIAMS: And again, that is 12 accurate to the best of your knowledge and ability? 13 DR. DOUGLAS GOTHAM: Yes. 14 MR. BYRON WILLIAMS: Dr. Gotham, you'll accept, subject to check, that your curriculum vitae is 15 16 filed as part of CAC Exhibit 33, along with a bee -brief biography marked as CAC Exhibit 35? 17 18 DR. DOUGLAS GOTHAM: Yes, I will. 19 MR. BYRON WILLIAMS: And sir, you have expertise in, first of all, utility and market 21 operations? DR. DOUGLAS GOTHAM: Yes. 22 23 MR. BYRON WILLIAMS: And expertise in 24 system planning? 25 DR. DOUGLAS GOTHAM: Yes.

- 1 MR. BYRON WILLIAMS: And expertise in
- 2 load forecasting, would that be fair?
- 3 DR. DOUGLAS GOTHAM: Yes, it would.
- 4 MR. BYRON WILLIAMS: And through your
- 5 insight into market activities and as part of the
- 6 development of your load forecasts, you have developed
- 7 insight into the economic and regulatory factors
- 8 affecting wholesale prices in the MISO region in
- 9 general, as well as in the State of Indiana?
- 10 DR. DOUGLAS GOTHAM: Yes, that's true.
- MR. BYRON WILLIAMS: And I sho -- I --
- 12 I should apologize for using the acronym 'MISO', but
- 13 you would understand that term to mean the Midwest
- 14 System Operators, sir?
- DR. DOUGLAS GOTHAM: Yes.
- 16 THE CHAIRPERSON: Rather than
- 17 Midcontint -- Midcontinent?
- MR. BYRON WILLIAMS: Oh, sorry, sir.
- 19 It's been a long night and morning. But thank you.
- 20 Dr. Gotham, you have particular exper --
- 21 experience within the MISO marketplace, which indeed
- 22 predates its actual formation?
- DR. DOUGLAS GOTHAM: That is correct.
- 24 We've worked with MISO almost from their very start,
- 25 when they were just operating their transmission system

- 1 prior to the formation of their wholesale market. We
- 2 worked with them in developing their requests for
- 3 proposals for their market monitor when they first
- 4 hired a market monitor.
- 5 We've worked, through our work with the
- 6 Indiana Utility Regulatory Commission, on a number of
- 7 workgroups, task force committees within the MISO
- 8 stakeholder community. So, yeah, we've -- we've worked
- 9 with -- with MISO even before they had a market, yes.
- 10 MR. BYRON WILLIAMS: And, sir, you hold
- 11 a PhD in electrical engineering?
- 12 DR. DOUGLAS GOTHAM: That is correct.
- MR. BYRON WILLIAMS: And for the past
- 14 twenty-two (22) years, you have worked at the State
- 15 Utility Forecast Group at Perdue University?
- DR. DOUGLAS GOTHAM: Yes.
- MR. BYRON WILLIAMS: You are currently
- 18 its director?
- 19 DR. DOUGLAS GOTHAM: That's correct.
- MR. BYRON WILLIAMS: And as I
- 21 understand it, and I'll ask you to confirm, the State
- 22 Utility Forecast Group -- or SUFG for the reporter --
- 23 is an independent research and analysis group
- 24 established by the Indiana General Assemd -- Assembly,
- 25 funded by the state government through the Indiana

- 1 Utility Regulatory Commission?
- 2 DR. DOUGLAS GOTHAM: That is correct.
- 3 MR. BYRON WILLIAMS: Can you tell us a
- 4 -- a bit about the role of the SUFG and how it came
- 5 into being, sir?
- DR. DOUGLAS GOTHAM: Yes, the State
- 7 Utility Forecasting Group was formed as a result of an
- 8 act of the Indiana General Assembly in response to
- 9 over-forecasting, over-building of generating capacity
- 10 in the State of Indiana, which led to two (2) failed
- 11 nuclear power plants and a utility in bankruptcy.
- We had a 50 percent reserve margin in
- 13 the mid-'80s. The General Assembly decided that they
- 14 wanted to establish an independent forecasting group at
- 15 one of the state universities to assist the regulatory
- 16 commission in determining when new power plants were
- 17 needed.
- 18 This is part of the Indiana's
- 19 Certificate of Need Law. So whenever a utility wants
- 20 to build a -- a new power plant, they file for a
- 21 certificate of need and then our forecast is used as
- 22 one of the factors that the regulatory commission uses
- 23 to determine whether or not that plant is actually
- 24 going to be needed.
- 25 So the State Utility Forecasting Group

- 1 was formed in 1985. We are independent of the
- 2 commission. We actually work for the university, but
- 3 the university has a contract with the regulatory
- 4 commission for us to do our job. One of the main
- 5 things we do is a long-term, twenty (20) year forecast
- 6 of electricity prices, consumption, and resource needs
- 7 for the state as a whole. But we also do a number of
- 8 other studies as directed by the regulatory commission.
- 9 MR. BYRON WILLIAMS: Thank you. And --
- 10 and you've mentioned that the SUFG is independent. And
- 11 just so I'm clear, does it play an advocacy role on
- 12 behalf of various stakeholders, or does it have a more
- 13 advisory role?
- 14 DR. DOUGLAS GOTHAM: We do not advocate
- 15 where -- it's -- my -- my position within the
- 16 university, actually I'm not allowed to be an advocate
- 17 for one (1) side or the other. We do analysis. We do
- 18 policy analysis. So where we don't make policy
- 19 recommendations, we do look at various policy options
- 20 and then model those options and -- and give the policy
- 21 makers the best information we can, in terms of what
- 22 the implications of those policy decisions that they
- 23 have to make are.
- 24 So we're not a -- biassed. We're not an
- 25 advocate. We are simply looking to see -- give -- give

- 1 the best information we can.
- 2 MR. BYRON WILLIAMS: Thank you. And --
- 3 and just to be clear about some of your roles, you
- 4 would provide forecasts of electricity consumption,
- 5 resource needs, and prices for all eight (8) utilities
- 6 in the State of Indiana?
- 7 DR. DOUGLAS GOTHAM: Yes, that's true.
- 8 MR. BYRON WILLIAMS: And under your
- 9 legislative mandate, would it be fair to say that
- 10 you're obliged to assess the probable future growth of
- 11 the use of electricity within Indiana and within its
- 12 region?
- DR. DOUGLAS GOTHAM: Yes.
- 14 MR. BYRON WILLIAMS: And the State of
- 15 Indiana is within the MISO region?
- DR. DOUGLAS GOTHAM: Yes, it is.
- 17 MR. BYRON WILLIAMS: And am I correct
- 18 in suggesting that in developing its load forecast for
- 19 the State of Indiana, one of the inputs that the SUFG
- 20 will employ is an estimate of expected wholesale prices
- 21 within the MISO region?
- DR. DOUGLAS GOTHAM: Yes.
- 23 MR. BYRON WILLIAMS: And am I also
- 24 correct in suggesting that your analysis is guided
- 25 primarily in this regard by estimates of the costs of

- 1 new entry?
- DR. DOUGLAS GOTHAM: Yes.
- 3 MR. BYRON WILLIAMS: And would it be
- 4 fair to say that in February of 2014 you were selected
- 5 by MISO to provide a series of independent ten (10)
- 6 year load forecasts for the MISO region, sir?
- 7 DR. DOUGLAS GOTHAM: Yes. We started
- 8 that project in February.
- 9 MR. BYRON WILLIAMS: And can you tell
- 10 us a little bit about that project?
- 11 DR. DOUGLAS GOTHAM: Sure. The -- MISO
- 12 has -- has asked us to provide a series of three (3)
- 13 annual ten (10) year load forecasts for their market
- 14 region, which includes fifteen (15) states. So we are
- 15 in the process of constructing load forecasting models
- 16 for each one of the fifteen (15) states for MISO, and
- 17 we will be producing a ten (10) year forecast which
- 18 will come out in November. And then we'll produce
- 19 follow-up forecasts in November of 2015 and -- and
- 20 2016.
- 21 MR. BYRON WILLIAMS: Thank you. Am I
- 22 correct in suggesting that until your selection is to
- 23 do forecasts for the region, MISO, unlike a number of
- 24 independent system operators relied solely on utility
- 25 forecasts and did not have an independent forecast?

- DR. DOUGLAS GOTHAM: That's -- that's
- 2 correct. MISO uses for their planning process, for
- 3 their resource adequacy processes. For their resource
- 4 -- their capacity requirement processes, they use the
- 5 forecasts developed by the individual utilities which
- 6 then they will sum up to the -- the MISO level.
- 7 MR. BYRON WILLIAMS: Am I also correct
- 8 in suggesting that, given the absence of independent
- 9 forecasts, MISO has developed an outline of what it
- 10 considers to be acceptable and non-acceptable methods
- 11 of load forecasting?
- 12 DR. DOUGLAS GOTHAM: That is correct.
- 13 MR. BYRON WILLIAMS: And you, sir, are
- 14 familiar with the MISO categorization of acceptable and
- 15 non-acceptable methods of load forecasting?
- DR. DOUGLAS GOTHAM: Yes.
- 17 MR. BYRON WILLIAMS: And in terms of
- 18 these new duties with MISO, am I correct in suggesting
- 19 that -- that the State Utility Forecast Group will be
- 20 developing estimates of statewide average retail
- 21 prices?
- DR. DOUGLAS GOTHAM: Yes, we will.
- 23 MR. BYRON WILLIAMS: And the source
- 24 data for those estimates will flow from EIA regional
- 25 pricing data?

DR. DOUGLAS GOTHAM: That's -- that's
will be the primary driver for those forecasts, yes.

MR. BYRON WILLIAMS: And, sir, it would

- 4 be accurate to say that you have frequently served as
- 5 an instructor on the subject of load forecasting at
- 6 both the Regulatory Studies Program and Grid Schools at
- 7 the Institute of Public Utilities at Michigan State
- 8 University?
- 9 DR. DOUGLAS GOTHAM: Yes.
- 10 MR. BYRON WILLIAMS: And you have
- 11 provided evidence to the Indiana General Assembly House
- 12 Commerce Committee on load forecast for the state?
- DR. DOUGLAS GOTHAM: Yes.
- 14 MR. BYRON WILLIAMS: And likewise,
- 15 provided evidence to the General Assembly of Indiana
- 16 House Ways and Means Committee on load forecasts?
- DR. DOUGLAS GOTHAM: Yes.
- 18 MR. BYRON WILLIAMS: Sir, I understand
- 19 that restructuring and deregulation of the marketplace
- 20 was a subject of considerable discussion in Indiana in
- 21 the late 1990s and early 2000s?
- DR. DOUGLAS GOTHAM: That is correct.
- 23 The state was looking at whether or not they wanted to
- 24 -- to restructure the retail electricity industry at
- 25 the time.

- 1 MR. BYRON WILLIAMS: And in the context
- 2 of restructuring, you prepared a report in 1998 for the
- 3 Indiana Utility Regulatory Commission on the projected
- 4 impact of restructuring on electricity prices for that
- 5 great state?
- DR. DOUGLAS GOTHAM: Yes.
- 7 MR. BYRON WILLIAMS: And likewise, in
- 8 2001, you prepared a report for the regulatory
- 9 commission on the factors of affecting electricity
- 10 prices in a competitive market?
- DR. DOUGLAS GOTHAM: Yes.
- 12 MR. BYRON WILLIAMS: And for the
- 13 purposes of considering the implications of
- 14 deregulation, the SUFG created a wholesale pricing
- 15 model in -- in or about 2000?
- 16 DR. DOUGLAS GOTHAM: Yes. That was a
- 17 regional model looking at the -- the State of Indiana
- 18 as well as neighbouring states within our region of the
- 19 country at a wholesale level.
- 20 MR. BYRON WILLIAMS: Thank you. And
- 21 before the Senate Utilities Commission in February of
- 22 2013, am I correct that you provided testimony
- 23 addressing natural gas prices?
- DR. DOUGLAS GOTHAM: Yes.
- MR. BYRON WILLIAMS: And in January of

- 1 2012, you were responsible for the preparation of a
- 2 report for the Indiana Utility Regulatory Commission
- 3 considering the impacts of federal environmental
- 4 regulation on Indiana electricity prices?
- DR. DOUGLAS GOTHAM: Yes.
- 6 MR. BYRON WILLIAMS: And without going
- 7 into the specific years, you have prepared a number of
- 8 reports on the impact of CO2 restrictions, mercury
- 9 emission reductions, and the projected impacts of the
- 10 Clean Air Interstate Rule.
- 11 Would that be fair, sir?
- DR. DOUGLAS GOTHAM: Yes.
- 13 MR. BYRON WILLIAMS: And of course, I
- 14 missed your famous report on NOx, N-O-X, emissions
- 15 reductions and their effect on electricity prices,
- 16 which was prepared on or about June of 2000?
- DR. DOUGLAS GOTHAM: June of 2000?
- 18 Yes.
- MR. BYRON WILLIAMS: I thought I had
- 20 you stumped there, sir, for a moment.
- 21 There is an obligation, is there not,
- 22 for utilities to report on integrated resource planning
- 23 in Indiana?
- 24 DR. DOUGLAS GOTHAM: Yes. Indiana has
- 25 an integrated resource planning rule.

- 1 MR. BYRON WILLIAMS: And the SUFG
- 2 played a role in the drafting of the new IRP rule in
- 3 Indiana?
- 4 DR. DOUGLAS GOTHAM: That is correct.
- 5 MR. BYRON WILLIAMS: How is IRP, or
- 6 integrated resource planning, defined in Indiana, sir?
- 7 DR. DOUGLAS GOTHAM: In general, it's a
- 8 process where the utilities are required to file -- go
- 9 through a process where they're -- they're trying to
- 10 identify the -- the best options going forward, in
- 11 terms of not just generating capacity, but also demand-
- 12 side resources as well as transmission options.
- 13 So they look, based on their load
- 14 forecast going forward, determine what the -- the best
- 15 means from both a low cost and a low risk standpoint
- 16 are for meeting the -- the future demand for
- 17 electricity, taking into account all those factors.
- 18 MR. BYRON WILLIAMS: Than -- thank you.
- 19 And your organization plays a role in assisting the
- 20 Indiana Utility Regulatory Commission to review the IRP
- 21 plans of the eight (8) utilities in Indiana?
- DR. DOUGLAS GOTHAM: Yes, that's part
- 23 of our contract with the -- the state commission.
- 24 MR. BYRON WILLIAMS: And you assist in
- 25 the review of four (4) IRPs each year?

8338 DR. DOUGLAS GOTHAM: That is correct. 1 2 MR. BYRON WILLIAMS: Sir, just to -- to wrap up with -- with you, you served, at one point in 3 time, as one (1) of two (2) Indiana delegates to the Eastern Interconnection State Planning Counsel, or EISPC, an organization consisting of thirty-nine (39) states, the District of Columbia, and various Canadian 7 provinces? 9 DR. DOUGLAS GOTHAM: That is correct. 10 MR. BYRON WILLIAMS: And EISPC worked 11 with various stakeholders to develop scenarios to be 12 incorporated in long-term resource planning for the eastern interconnection? 13 14 DR. DOUGLAS GOTHAM: That is correct. 15 MR. BYRON WILLIAMS: And among your 16 responsibilities with the EISPC was serving as head of the modelling working group, member of the futures 17 18 working group, and member of the president's technical 19 team? 20 DR. DOUGLAS GOTHAM: That is correct. 21 MR. BYRON WILLIAMS: And you currently, 22 sir, serve as an advisor to the EISPC on issues 23 associated with modelling and engineering? 24 DR. DOUGLAS GOTHAM: That is correct. 25 MR. BYRON WILLIAMS: And I recognize

- 1 that you work for the university and not for any
- 2 particular organization, but would it be accurate to
- 3 say that among the other organizations, that Purdue
- 4 University has cooperated with are the US Department of
- 5 Energy and the Electric Power Research Institute?
- DR. DOUGLAS GOTHAM: Yes.
- 7 MR. BYRON WILLIAMS: Dr. Simpson -- and
- 8 Mr. Chair, I recognize that Dr. Simpson was qualified
- 9 as an expert in applied econometrics and applied
- 10 microeconomics on Wednesday, so we're not going to try
- 11 to requalify him, but we do want to provide a bit of
- 12 information so you can understand the basis for his
- 13 ability to form the opinions that he has.
- 14 Dr. Simpson, with Dr. Gotham, you are
- 15 the author of the Load Forecast Report filed in
- 16 February of 2014 on behalf of CAC (Manitoba)?
- DR. WAYNE SIMPSON: Yes.
- 18 MR. BYRON WILLIAMS: And it is
- 19 accurate, sir, to the best of your knowledge and
- 20 ability?
- DR. WAYNE SIMPSON: Yes.
- MR. BYRON WILLIAMS: And it represents
- 23 both your opinion and the opinion of Dr. Gotham?
- DR. WAYNE SIMPSON: Yes.
- MR. BYRON WILLIAMS: And you've been a

- 1 busy man, Dr. Simpson. You are also the author of a
- 2 report on risk analysis, which was filed in February
- 3 2014 and marked as CAC Exhibit 21?
- DR. WAYNE SIMPSON: Yes, I am.
- 5 MR. BYRON WILLIAMS: And, sir, can you
- 6 explain the term 'a Monte Carlo simulation,' in words
- 7 that even I can understand?
- 8 DR. WAYNE SIMPSON: The idea behind
- 9 Monte Carlo simulation is essentially to postulate, or
- 10 estimate probability distributions that capture the
- 11 range of outcomes of some particular variable that has
- 12 variation, and therefore, in this case, typically
- 13 there's a risky element to it, and then to make draws
- 14 from that distribution, or a combined set of
- 15 distributions in order to understand how the interplay
- 16 of the forces of different risk factors might affect
- 17 the overall outcome.
- 18 MR. BYRON WILLIAMS: Well done, Dr.
- 19 Simpson. I give you high marks as well, from my
- 20 perspective. Given your expertise in applied
- 21 econometrics, I wonder if you can advise us of your
- 22 experience, if any, with replication methods such as
- 23 Monte Carlo simulations?
- 24 DR. WAYNE SIMPSON: There was a lot of
- 25 work in econometrics using Monte Carlo and other

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- 1 replication methods like bootstrapping, to understand
- 2 the properties of estimators and their test properties,
- 3 estimation properties, and so on.
- 4 MR. BYRON WILLIAMS: Okay. With regard
- 5 to the issue of load forecasting, I wonder if you could
- 6 briefly discuss how applied econometrics pro --
- 7 provides you with the insight to offer opinions on the
- 8 load forecast modelling and reliability?
- 9 DR. WAYNE SIMPSON: On the load
- 10 forecasting, both the applied econometrics and the
- 11 applied microeconomics are relevant. The applied
- 12 econometrics is relevant, because we're trying to make
- 13 estimates and forecasts, and this is what -- this is
- 14 what econometrics does. It's one of the tools that
- 15 allows us to do these kinds of things, and the applied
- 16 microeconomics is relevant, because it's the study of
- 17 consumer behaviour, or consumer responses, consumer
- 18 choices. And that includes items like electricity, and
- 19 therefore, the consumer's decisions about load, and
- 20 also producers choices, and therefore the producers in
- 21 Manitoba and their decisions about the amount of
- 22 electricity they -- they use.
- 23 MR. BYRON WILLIAMS: And during the
- 24 2013/'14 Hydro General Rate Application, you provided
- 25 some analytical advice to CAC (Manitoba)?

- DR. WAYNE SIMPSON: Yes.
- 2 MR. BYRON WILLIAMS: And it was at that
- 3 time that you expressed some concern with the abscess -
- 4 absence of analysis of the demand adapting effects of
- 5 price increases?
- DR. WAYNE SIMPSON: That's correct.
- 7 MR. BYRON WILLIAMS: Turning now to the
- 8 issue of risk analysis, I wonder if you could discuss
- 9 how applied microeconomics and applied econometrics
- 10 provides you with the insight to offer opinions on risk
- 11 analysis related to Hydro's resource planning?
- 12 DR. WAYNE SIMPSON: Well, the
- 13 characterization of risk in the modern sense, the
- 14 statistical characterization comes out of the tools of
- 15 econometrics, where there's discussion of -- of
- 16 estimators when there is variability.
- 17 And in terms of microeconomics, again,
- 18 there's the behaviour of producers in context of risk,
- 19 and therefore, the elements of investment analysis
- 20 would come from that.
- 21 MR. BYRON WILLIAMS: And you mention,
- 22 "investment analysis." Through your expertise in
- 23 applied microeconomics, would you have any familiarity
- 24 with portfolio theory?
- DR. WAYNE SIMPSON: Yes. I make no

8343 claims about my investment skills, but I -- I understand the concepts underlying it. 3 (BRIEF PAUSE) 5 6 MR. BYRON WILLIAMS: I've beaten him 7 down. 8 DR. WAYNE SIMPSON: Quieter than I was 9 on Wednesday, more subdued? 10 And, sir, how, if MR. BYRON WILLIAMS: 11 at all, do replication methods such as Monte Carlo fit 12 within the paradigm of modern risk analysis? 13 DR. WAYNE SIMPSON: Well, again, if you 14 want to try to understand the -- the complexities 15 associated with an organization's that's facing a number of risk factors, Monte Carlo is useful, because it allows us to draw from each of those risk factors 17 18 and combine them in order to understand what the 19 outcome is, and then, through replication, doing that over and over again, understand the range of possible outcomes that could occur to the firm under different 21 22 scenarios, and in this case, under different potential 23 development plans for -- for Hydro. 24 MR. BYRON WILLIAMS: Dr. Simpson, you provided expert assistance to CAC (Manitoba) during the

- 1 extensive risk analysis proceedings during the 2010/'11
- 2 general rate application?
- DR. WAYNE SIMPSON: Yes.
- 4 MR. BYRON WILLIAMS: And you had
- 5 occasion during that hearing to review the evidence of
- 6 Drs. Kubursi and Magee with regard to modern risk
- 7 assessment practices and the risks faced by Manitoba
- 8 Hydro?
- 9 DR. WAYNE SIMPSON: Yes.
- 10 MR. BYRON WILLIAMS: And I wonder if
- 11 you could briefly discuss the nature of your work with
- 12 CAC (Manitoba) in that particular proceeding?
- DR. WAYNE SIMPSON: I didn't provide
- 14 any testimony to the PUB, but I did write a -- a
- 15 background paper, if you will, for CAC on Kubursi and
- 16 Magee's approach, finding that their general approach
- 17 was a good one, a good lesson for the treating of -- of
- 18 risk analysis, but that, in terms of the details, there
- 19 were many steps that were -- were in -- either
- 20 inappropriate, ill-advised, or simply time-constrained.
- 21 MR. BYRON WILLIAMS: And through your
- 22 advice to CAC (Manitoba), you identified some room from
- 23 (sic) improvement in the approaches of the two (2) good
- 24 doctors related to probability, distribution, and
- 25 regressions?

- DR. WAYNE SIMPSON: Right.
- 2 MR. BYRON WILLIAMS: And finally, on
- 3 the subject of risk analysis, you have provided
- 4 evidence on at least three (3) occasions to the Public
- 5 Utilities Board with regard to the Manitoba Public
- 6 Insurance rate stabilization reserve?
- 7 DR. WAYNE SIMPSON: Three (3) times,
- 8 yes, that's right.
- 9 MR. BYRON WILLIAMS: And I wonder if
- 10 you could discuss how, if at all, the analysis
- 11 undertaken in that exercise may have relevance for your
- 12 work in this proceeding?
- DR. WAYNE SIMPSON: Well, in many
- 14 respects, that's a -- a less complex exercise, but MPI
- 15 also faces a number of risks associated with claims and
- 16 weather and whatnot, and also risks on the investment
- 17 side, and the cumulative effects of those things,
- 18 again, is something that can be analyzed using the same
- 19 sort of tools of risk analysis as can be used to
- 20 evaluate the impacts of investment plans on Hydro.
- 21 MR. BYRON WILLIAMS: Thank you. Mr.
- 22 Harper, you're the author of review of Manitoba Hydro's
- 23 Preferred Development filed in February 2014 and marked
- 24 as Exhibit CAC-30?
- MR. WILLIAM HARPER: That is correct.

8346 1 MR. BYRON WILLIAMS: And you're also the author of this rather heavy PowerPoint marked as CAC Exhibit 68? 3 MR. WILLIAM HARPER: Yes, I am. 5 MR. BYRON WILLIAMS: And you are the author also of certain information responses filed with regard to your evidence? 7 Yes, I am. 8 MR. WILLIAM HARPER: 9 MR. BYRON WILLIAMS: And subject to 10 certain revisions, which have been previously filed as CAC Exhibit 60, the evidence you've provided to date is 11 12 accurate to the best of your knowledge and ability? 13 MR. WILLIAM HARPER: Yes, it is. 14 MR. BYRON WILLIAMS: And sir, you have 15 expertise in regulatory economics and -- and the 16 economic evaluation of supply and resource planning? 17 MR. WILLIAM HARPER: Yes, I do. 18 MR. BYRON WILLIAMS: You hold a 19 master's degree in management science from the University of Waterloo, with a major in applied 21 economics and a minor in operations research, sir? 22 MR. WILLIAM HARPER: That -- that's 23 correct. 24 MR. BYRON WILLIAMS: Currently, you are 25 associate consultant with Econalysis Consulting Service

- 1 and have almost thirty (30) years' experience in the
- 2 electricity industry?
- 3 MR. WILLIAM HARPER: Just over thirty
- 4 (30) I'd say, yes.
- 5 MR. BYRON WILLIAMS: You've worked for
- 6 five (5) years at the start of the -- your career with
- 7 the Ontario Ministry of Energy as an economist in the
- 8 Strategic Planning and Analysis Group?
- 9 MR. WILLIAM HARPER: Yes, that's
- 10 correct.
- MR. BYRON WILLIAMS: And for the next
- 12 one thousand (1,000) years of your life, or from 1980
- 13 through 2000, you were employed by Ontario Hydro and
- 14 its successor company, Hydro One?
- 15 MR. WILLIAM HARPER: That -- that is
- 16 correct, yes.
- 17 MR. BYRON WILLIAMS: And while at
- 18 Ontario Hydro, your responsibilities included Ontario
- 19 Hydro's wholesale rates and its regulation of the pro -
- 20 province's municipal electric utilities?
- MR. WILLIAM HARPER: Yes.
- MR. BYRON WILLIAMS: And you were
- 23 responsible for the coordination of the Company's
- 24 overall participation in public review processes?
- 25 MR. WILLIAM HARPER: That -- that is

- 1 correct, yes.
- 2 MR. BYRON WILLIAMS: And you have
- 3 testified, sir, before the Ontario Energy Board on
- 4 rates and regulatory matters on numerous occasions?
- 5 MR. WILLIAM HARPER: Yes, I have.
- 6 MR. BYRON WILLIAMS: You've testified
- 7 before the Ontario Environmental Assessment Board with
- 8 respect to Ontario Hydro's demand supply plan?
- 9 MR. WILLIAM HARPER: Yes, I did.
- 10 MR. BYRON WILLIAMS: And since joining
- 11 ESC in 2000, you have provided support to Intervenors
- 12 in regulatory proceedings in British Columbia,
- 13 Manitoba, Ontario and Quebec, sir?
- 14 MR. WILLIAM HARPER: Yes, I have.
- MR. BYRON WILLIAMS: And those
- 16 proceedings have been related to rates, revenue
- 17 requirements, industry restructuring and resource
- 18 planning?
- 19 MR. WILLIAM HARPER: That is correct.
- 20 MR. BYRON WILLIAMS: In addition, you
- 21 have testified as an expert witness before the Manitoba
- 22 Clean Environment Commission, the Manitoba Public
- 23 Utilities Board, and the Quebec Regie de L'Energie?
- 24 MR. WILLIAM HARPER: Yes, yes, I have.
- MR. BYRON WILLIAMS: And with specific

- 1 resul -- regard to resource planning, you've appeared
- 2 as an expert witness before the Regie with respect to
- 3 Hydro Quebec's distributions 2001 and 2004 supply
- 4 plans?
- 5 MR. WILLIAM HARPER: Yes, I did.
- 6 MR. BYRON WILLIAMS: You appeared
- 7 before Manitoba's Clean Environment Commission, with
- 8 the respect to the Need For and Alternatives to the
- 9 Wuskwatim project?
- 10 MR. WILLIAM HARPER: Yes, I did.
- MR. BYRON WILLIAMS: You have assisted
- 12 clients in British Columbia with their participation
- 13 and public reviews undertaken by the BCUC of integrated
- 14 resource plans prepared by BC Hydro and FortisBC?
- MR. WILLIAM HARPER: Yes, I have.
- 16 MR. BYRON WILLIAMS: Similarly, you
- 17 have assisted clients in Ontario with their
- 18 participation in the OEB review of the Ontario Power
- 19 Authority's Integrated Resource Plan in 2007?
- 20 MR. WILLIAM HARPER: Yes, I did.
- 21 MR. BYRON WILLIAMS: I apologize for
- 22 the length of the presentation, sir, but we have three
- 23 (3) witnesses. CAC would ask that Dr. Gotham be
- 24 qualified as an expert in utility and market
- 25 operations, utility and market operations, system

- 1 planning, and load forecasting, and that Dr. Simpson,
- 2 based upon his accepted expertise in applied
- 3 microeconomics and applied econometrics, be found
- 4 qualified to present the opinions found in his
- 5 evidence, and that Dr. -- excuse me -- Mr. Harper be
- 6 qualified with expertise in regulatory economics and
- 7 the economic evaluation of supply and resource
- 8 planning.
- 9 THE CHAIRPERSON: Thank you, Mr.
- 10 Williams. I'll canvass with Intervenors now, starting
- 11 with Me. Hacault, s'il vous plait.
- 12 MR. ANTOINE HACAULT: Merci, M.
- 13 President. MIPUG has no objections to the
- 14 qualifications of these witnesses as set out by Mr.
- 15 Williams.
- 16 THE CHAIRPERSON: Thank you. Mr.
- 17 Shefman, please?
- MR. COREY SHEFMAN: Thank you, Mr.
- 19 Chairman. The MMF has no objection to the
- 20 qualification of the witnesses.
- 21 THE CHAIRPERSON: Thank you, Mr.
- 22 Shefman. M. Monnin...?
- 23 MR. CHRISTIAN MONNIN: Merci, M.
- 24 President, we have no objections.
- THE CHAIRPERSON: Merci. Ms. Ramage,

- 1 please.
- MS. PATTI RAMAGE: I have a few
- 3 questions -- I have a few questions for the witnesses,
- 4 beginning with Dr. Gotham. Sir, you work for -- if
- 5 I've got it right -- the State Utility Forecasting
- 6 Group at Purdue University, correct?
- 7 DR. DOUGLAS GOTHAM: That is correct.
- 8 MS. PATTI RAMAGE: And I can refer to
- 9 that as SUFG, is that right?
- 10 DR. DOUGLAS GOTHAM: That -- that's
- 11 fine
- MS. PATTI RAMAGE: Okay. And SUFG does
- 13 the long-term forecast for the State of Indiana.
- 14 Is that correct?
- DR. DOUGLAS GOTHAM: That is correct.
- 16 MS. PATTI RAMAGE: And I heard -- in
- 17 your evidence you referred a number of times, you said,
- 18 We do the long-term twenty (20) year forecast, or we do
- 19 policy analysis.
- 20 Can you tell me exactly what your role
- 21 is in the production of the State of Indiana forecast?
- DR. DOUGLAS GOTHAM: I have -- my role
- 23 has -- has been quite varied over time, starting out as
- 24 -- as a forecasting analyst, where I was involved in
- 25 updating and maintaining the forecasting modelling

- 1 system itself. And -- and so re-estimating the models,
- 2 putting in the new data sets, running the models,
- 3 examining them to -- the output to make sure that the
- 4 output made sense.
- 5 And then over time was moved into the
- 6 associate director position, where I was still involved
- 7 more at the higher level, in terms of the forecast
- 8 production, but I also had some other responsibilities
- 9 in terms of -- more in terms of working with the
- 10 various stakeholders in Indiana and maintaining those
- 11 relationships.
- 12 And since 2005 I've been the director of
- 13 the Forecasting Group. I'm less involved in the day-
- 14 to-day maintenance of the forecast, although I am still
- 15 -- consult with the -- the analysts that do the -- the
- 16 actual hands-on work in terms of the development of the
- 17 models and -- and making sure that the models, when we
- 18 re-estimate them, that -- that they make sense.
- 19 MS. PATTI RAMAGE: How many are in your
- 20 group?
- 21 DR. DOUGLAS GOTHAM: We -- right now we
- 22 have, including myself, five (5) full-time employees,
- 23 and we just hired one (1) of those to help with the --
- 24 the new work for MISO, and we're in the process of
- 25 trying to hire another full-time employee. And then we

- 1 have a half- time administrative assistant, and also
- 2 anywhere from three (3) to five (5) graduate
- 3 assistants. And we have some -- some faculty members
- 4 that we have -- that we can -- we rely on as well.
- 5 MS. PATTI RAMAGE: And I'm sorry --
- 6 sorry if I'm asking you to repeat yourself, 'cause you
- 7 may have said this, but do you have statistical or
- 8 econometric training?
- 9 DR. DOUGLAS GOTHAM: Not formally, no.
- 10 MS. PATTI RAMAGE: And I also heard you
- 11 say -- or Mr. Williams, I think, said it, that SUFG is
- 12 going to be producing a forecast for MISO, and I -- I
- 13 thought I heard that was for retail rates.
- 14 Is that correct?
- DR. DOUGLAS GOTHAM: That -- no. We
- 16 will be using, as one of the inputs to the forecasting
- 17 model, a retail rate for the individual states, a
- 18 average retail rate as a driver for the forecasting
- 19 models, which we're developing econometric models at
- 20 the state level for the fifteen (15) states in MISO.
- 21 And one of those drivers will be regulated retail
- 22 rates.
- In order to develop those -- those
- 24 forecasts of regulatory -- regulated -- of retail rates
- 25 -- average retail rates at the state level, we are

- 1 going to be developing a second set of econometric
- 2 models. These econometric models are going to be
- 3 driven primarily by EIA's price forecast.
- But EIA's price forecasts aren't at the
- 5 state level. They're at a larger regional level, so we
- 6 want to find a way -- we're finding a way to -- to
- 7 break those regional forecasts down to individual state
- 8 level forecasts because not all of the states' prices
- 9 change at the same rate as other states within the
- 10 census region.
- 11 MS. PATTI RAMAGE: So the forecast
- 12 though that is being produced at the -- at the end of
- 13 the day, what product are you forecasting?
- DR. DOUGLAS GOTHAM: We are forecasting
- 15 energy and peak demand for what MISO refers to as their
- 16 local resource zones, which are certain regions within
- 17 the MISO footprint that are essentially planned as --
- 18 as individual regions within that.

19

20 (BRIEF PAUSE)

- MS. PATTI RAMAGE: And, Dr. Simpson,
- 23 you're an economics professor at the University of
- 24 Manitoba, correct?
- DR. WAYNE SIMPSON: Yes.

- 1 MS. PATTI RAMAGE: And you've been
- 2 teaching economics for most of your career?
- 3 DR. WAYNE SIMPSON: At the University
- 4 of Manitoba since 1979, right.
- 5 MS. PATTI RAMAGE: Do you have any
- 6 direct experience in preparing an electricity load
- 7 forecast for a utility?
- B DR. WAYNE SIMPSON: No.
- 9 MS. PATTI RAMAGE: Have you done a
- 10 natural gas load forecast?
- DR. WAYNE SIMPSON: No.
- 12 MS. PATTI RAMAGE: Have you been
- 13 involved in the preparation of a Power Resource Plan?
- DR. WAYNE SIMPSON: No.
- MS. PATTI RAMAGE: Have you conducted a
- 16 risk analysis assessment of an energy utility?
- DR. WAYNE SIMPSON: Yes, in the sense
- 18 that I reviewed the independent report from Kubursi
- 19 Magee, which related to risk analysis for Hydro.
- 20 MS. PATTI RAMAGE: You -- you reviewed
- 21 the report that was filed by Drs. Kubursi and Magee at
- 22 the 2010 GRA, correct? But you weren't a witness at
- 23 that time?
- 24 DR. WAYNE SIMPSON: I didn't -- I was
- 25 not a witness. I provided background information and

- 1 advice to -- to Mr. Williams.
- MS. PATTI RAMAGE: And I heard Mr.
- 3 Williams reference a background paper that -- where you
- 4 expressed a concern.
- 5 That paper was never filed in the 2010
- 6 GRA, correct?
- 7 DR. WAYNE SIMPSON: I don't believe so.
- 8 I could stand corrected, but I don't believe so.
- 9 MS. PATTI RAMAGE: So the -- the
- 10 opinions expressed in that paper have never been
- 11 tested.
- 12 Is that correct?
- DR. WAYNE SIMPSON: Only tested in the
- 14 sense that there were some modifications made to the --
- 15 to the Kubursi Magee report on the basis of the
- 16 information in that background paper.
- 17 MS. PATTI RAMAGE: That information was
- 18 information, you'd agree --
- DR. WAYNE SIMPSON: On methodology.
- 20 MS. PATTI RAMAGE: -- that a number of
- 21 Intervenors expressed the same views?
- DR. WAYNE SIMPSON: I think I was more
- 23 specific than others, but I -- I take that point, yes.
- 24 MS. PATTI RAMAGE: Are you able to
- 25 point to any publications you have written or courses

- 1 taught where the focus has been on uncertainty or risk
- 2 analysis?
- 3 DR. WAYNE SIMPSON: I have some papers
- 4 with Rob Sproule where I looked at -- we looked at the
- 5 behaviour of individuals under risk. And risk analysis
- 6 is at least indirectly a part of discussions of
- 7 microeconomics, where I've taught a couple of courses.
- 8 It's not directly a topic in econometric courses, where
- 9 I'd taught more extensively and the undergraduate and
- 10 graduate level, but certainly the -- the skills that
- 11 are developed there and that I teach are -- are
- 12 relevant to these questions -- applicable to these
- 13 questions.
- 14 MS. PATTI RAMAGE: None of these relate
- 15 to electric utility resource planning though.
- 16 Is that correct?
- DR. WAYNE SIMPSON: I wouldn't say
- 18 that's an example I would typically draw on in -- in
- 19 teaching or -- or that I have written on in terms of my
- 20 research, no.
- 21 MS. PATTI RAMAGE: And am I correct
- 22 that you were responsible for producing Part 2 of
- 23 Exhibit 5 -- of Exhibit 65, I'm sorry, which is the
- 24 load forecasting for the NFAT, and you produced all of
- 25 Exhibit 69, which is the -- what is it...

- DR. WAYNE SIMPSON: Risk analysis.
- MS. PATTI RAMAGE: Yeah, the risk
- 3 analysis. Yes.
- DR. WAYNE SIMPSON: Yes.
- 5 MS. PATTI RAMAGE: That's correct?
- DR. WAYNE SIMPSON: Yes.
- 7 MS. PATTI RAMAGE: Okay. And, Dr.
- 8 Harper, we'll old friends.
- 9 MR. WILLIAM HARPER: Or Mr. Harper.
- 10 MS. PATTI RAMAGE: Or -- sorry. There
- 11 have been so many doctors here and none of them can
- 12 help me with my arm, but... I -- I have no questions
- 13 for Mr. Harper. I -- he has been here many times, so
- 14 no further questions. But we do have a submission to
- 15 make and I don't know if you'd prefer -- I'm not sure
- 16 if there's anyone else to -- to canvass first?
- 17 THE CHAIRPERSON: Sorry, there is Mr.
- 18 Peters. I have a few questions I wanted to ask Dr.
- 19 Gotham in particular.
- I just wanted to make sure that the
- 21 State Utility Forecasting Group is funded by whom?
- DR. DOUGLAS GOTHAM: Our primary
- 23 funding comes from the Indiana Utility Regulatory
- 24 Commission. That's the -- the Indiana Utility
- 25 Regulatory Commission is required by state law to fund

- 1 a forecasting group at one (1) of the public
- 2 universities in the State of Indiana. Purdue has the
- 3 job. The university has the contract with the
- 4 regulatory commission and we are employees of the
- 5 university who then go and essentially perform the
- 6 duties required in that contract. That's their -- our
- 7 primary source of funding.
- 8 We also have funding as of February from
- 9 MISO to do load forecasts. I am funded in part for the
- 10 work I do for EISPC. So I get -- there's -- there's
- 11 funding from that source, as well. So it -- our
- 12 primary for funding has always been the Indiana Utility
- 13 Regulatory Commission, but there are other sources of
- 14 funding, as well.
- THE CHAIRPERSON: Now you know that
- 16 Manitoba Hydro is associated with MISO, and I guess the
- 17 question I had is whether or not the load forecasting
- 18 work you're doing with -- with -- for MISO extends to
- 19 the load forecast for Manitoba Hydro?
- 20 DR. DOUGLAS GOTHAM: In their request
- 21 for proposals, which came out last fall, they requested
- 22 separate budgets for what they call their market
- 23 footprint, which does not include Manitoba, and their
- 24 reliability footprint, which does.
- We provided estimates of what the cost

- 1 would be in our proposal for both of those. MISO
- 2 elected to go with their market footprint, so it does
- 3 not include Manitoba.
- 4 THE CHAIRPERSON: Just a -- a question
- 5 that I have, and it's with respect to the current work
- 6 that MISO is doing to -- to survey the resource
- 7 adequacy in the capital -- capacity utilization in MISO
- 8 related to the fifteen (15), sixteen (16) -- yeah, the
- 9 fifteen (15), sixteen (16) time frame.
- 10 Are you involved in that?
- DR. DOUGLAS GOTHAM: Not directly.
- 12 THE CHAIRPERSON: Okay. I have no
- 13 further questions, so let's hear a submission from
- 14 Manitoba Hydro.
- MR. BYRON WILLIAMS: Mr. Chair, just
- 16 before Hydro does, there may be one (1) factual
- 17 correction that -- just before Hydro makes its
- 18 submission.
- 19 Dr. Gotham and Dr. Simpson, would it be
- 20 fair to say that CAC Exhibit 65 in its entirety
- 21 represents both of your opinions, sir?
- DR. DOUGLAS GOTHAM: Yes.
- 23 DR. WAYNE SIMPSON: Yes, we -- we both
- 24 have reviewed all parts of the document and agree to
- 25 it.

8361 MR. BYRON WILLIAMS: And you've 1 exchanged drafts and exchanged comments on all parts of the document? 3 DR. WAYNE SIMPSON: Yes. 5 DR. DOUGLAS GOTHAM: Yes. MR. BYRON WILLIAMS: Thank you. 6 7 MS. PATTI RAMAGE: It may be useful if -- Diana, could you bring up Manitoba/CAC Simpson and 9 Gotham 32? 10 11 (BRIEF PAUSE) 12 13 MS. PATTI RAMAGE: And while Diana is 14 doing that, I can start the submission, because it --15 it works into it. I can say that Manitoba Hydro has no objection to the qualifications of either Mr. Harper or Dr. Gotham as -- as submitted by Mr. Williams. 17 18 Manitoba Hydro also accepts Dr. Simpson 19 as an expert in econometrics and microeconomics, as described. We do not, however, accept Dr. Simpson as 21 an expert in the practical application of those 22 disciplines for the purpose of electric load 23 forecasting and risk analysis associated with power 24 resource planning of electric -- of electricity 25 systems, and question his ability to opine on those

- 1 topics in the reports filed.
- 2 While they are -- following one (1) up
- 3 on Mr. Williams's question, while Dr. Gotham and Dr.
- 4 Simpson are jointly responsible for the report and it's
- 5 conclusions, it does indicate in the response that Dr.
- 6 Gotham was the primary author of Part 1, and Dr.
- 7 Simpson the primary author of Part 2.
- 8 We believe that the -- there's a
- 9 significant limitation with respect to the evidence of
- 10 Dr. Simpson. He is critiquing Manitoba Hydros lord for
- 11 -- load forecast in Part 2, but has never been involved
- 12 in the preparation of an electric load forecast, nor a
- 13 gas load -- load forecast, for that matter.
- 14 He hasn't worked in an environment where
- 15 it was necessary to rely on or monitor load forecast
- 16 results. Similarly, Dr. Simpson hasn't prepared a
- 17 power resource plan, nor has he worked with one, nor
- 18 does he have the industry experience to fully
- 19 appreciate the key variables in a power resource plan,
- 20 their correlation or the risks associated with changes
- 21 to those variables.
- It's Manitoba Hydro's submission that
- 23 Dr. Simpson has not conducted a risk assessment of an
- 24 energy utility, nor a risk analysis of resource
- 25 alternatives in the energy sector. Manitoba Hydro does

- 1 not believe a review of the Kubursi/Magee Report
- 2 constitutes conduct of an assessment.
- And while we don't question Dr.
- 4 Simpson's theoretical knowledge of econometrics or
- 5 economics, we think it's critical to demonstrate
- 6 practical application of that skill set in the very
- 7 complex world of -- of the energy industry in order to
- 8 qualify as an expert before this Board.
- 9 Now -- and I have to be careful here,
- 10 because I didn't hear Mr. Williams ask that he be
- 11 qualified as an expert in these topics, but the fact
- 12 is, he's opining on the topics and that's the area of
- 13 concern. We believe to opine on the topics, you have
- 14 to have the expertise, and that expertise is required -
- 15 is acquired by working in the industry for an
- 16 electric utility, or as a consultant with a history of
- 17 providing services to industry participants.
- 18 But without that practical experience,
- 19 you really aren't in a position to opine on what meets
- 20 industry standards, what are acceptable practices, what
- 21 are the practical impacts of using certain processes,
- 22 what has worked, and what hasn't worked.
- 23 And without that practical experience,
- 24 we have serous concerns with accept -- expect -- of
- 25 accepting expert -- expert-type reports on the topic

- 1 matters. And as indicated in the response to Manitoba
- 2 Hydro CAC 32 Part 2 of the load forecasting report,
- 3 what's produced by Dr. Simpson, and we believe that
- 4 report should be read with caution, because lack of
- 5 practical experience -- without that practical
- 6 experience, we just -- we're of the view that it's not
- 7 appropriate to -- to provide that opinion-based
- 8 evidence.
- 9 Similarly in a risk review, without that
- 10 practical experience, we have concerns with that --
- 11 with reliance on that type of evidence, and it's
- 12 Manitoba Hydro's view that we have to take those kind
- 13 of reports with caution.
- 14 THE CHAIRPERSON: Thank you, Ms.
- 15 Ramage. Mr. Williams, would you comment, please?
- 16 MR. BYRON WILLIAMS: Yeah. I -- I do
- 17 just want to ask one (1) fact-based question before we
- 18 do so. Dr. Gotham, in terms of the prefiled expert
- 19 report of you and Dr. Simpson, you are fully familiar
- 20 with the analysis that took part in Part 2 of that
- 21 paper?
- DR. DOUGLAS GOTHAM: Yes, I am.
- 23 MR. BYRON WILLIAMS: And sir, you --
- 24 apart from your Indiana experience, you contributed as
- 25 well, sir, to the analysis that underwent all parts of

- 1 Part 2 based upon your lengthy experience in the state
- 2 of Indiana and more broadly? Would that be fair, sir?
- 3 DR. DOUGLAS GOTHAM: Yes.
- 4 MR. BYRON WILLIAMS: And in the course
- 5 of doing so, you benefited, I would suggest to you,
- 6 sir, greatly from the econometric and microeconomic
- 7 skills that Dr. Simpson brought to that analysis?
- DR. DOUGLAS GOTHAM: That would be a
- 9 fair statement.
- 10 MR. BYRON WILLIAMS: And sir, in terms
- 11 of the load forecast, Dr. Simpson's credentials stand
- 12 on their own. The skill set that -- that he has
- 13 developed and demonstrated to this Board on numerous
- 14 occasions in terms of high level econometric analysis,
- 15 high level microeconomic analysis, is applicable in a
- 16 variety of -- of areas.
- 17 He has demonstrated that ably in -- with
- 18 regard to risk with regard to Manitoba Public
- 19 Insurance. He's demonstrated ably in the outcome of
- 20 the -- the 2010/'11 GRA, where it's -- it's common
- 21 knowledge that the cross-examination undertaken by CAC
- 22 (Manitoba) resulted in material downward revisions in
- 23 the risk estimates of Drs. Kubursi and -- and Magee in
- 24 the range of billions of dollars, and it is common
- 25 knowledge that that was the work of Dr. Simpson.

8366 We -- we fully and well understand why

- 2 Manitoba Hydro would be concerned that Dr. Simpson's
- 3 risk analysis would be accepted. We would submit
- 4 though, it's not because of his -- their concerns about
- 5 his skills. It's their concern about the content of
- 6 his analysis.
- 7 Our client is confident that the skills
- 8 Dr. Simpson has demonstrated, both before this Board,
- 9 in regular appearances, in his academic work, in his
- 10 writing, is fully applicable, and his analysis is a
- 11 basic portfolio theory analysis. It is -- which is
- 12 fully within the skill set that he has ably
- 13 demonstrated over many years. Just one (1) second.

14

1

15 (BRIEF PAUSE)

- MR. BYRON WILLIAMS: We have no further
- 18 submissions.
- 19 THE CHAIRPERSON: Thank you. I believe
- 20 that it would be appropriate for the panel to stand
- 21 down, so that we can discuss this matter and come back
- 22 with a decision. We'll do so as quickly as possible,
- 23 but it's probably a right time to take a break at the
- 24 same time. So why don't we take ten (10) minutes so
- 25 that everybody could have a coffee and so on.

- 1 MS. PATTI RAMAGE: Mr. Chair, before
- 2 the break, Manitoba Hydro would just like one (1)
- 3 point, with respect to Mr. William's comments. And
- 4 because these panel members were not here we would just
- 5 like to go on the record to say, it is not common
- 6 knowledge why the Board -- which parties the Board
- 7 particularly listened to in making its decisions. The
- 8 Board's decisions speak for themselves, and we don't
- 9 think it's appropriate for any party to -- to claim
- 10 that any portion of a decision is a result of any
- 11 particular individual's efforts.
- MR. BYRON WILLIAMS: With respect, Mr.
- 13 Chair, My Learned Friend, misheard me. Under cross-
- 14 examination by Ms. -- by myself, Drs. Kubursi and Magee
- 15 agreed to redo the regression analysis. It is common
- 16 knowledge that as a result of that redone regression
- 17 analysis, as a result of the work of Dr. Simpson, there
- 18 were substantial changes to their estimates ranging
- 19 upwards of -- in the billions of dollars.
- 20 I was not referring to the finding of
- 21 the Board. I was referring to the revisions to the
- 22 evidence of Doctors Kubursi and Magee, because of CAC
- 23 (Manitoba)'s cross-examination, which flowed from Dr.
- 24 Simpson's insight.
- MS. PATTI RAMAGE: And that could

8368 equally be said with Mr. Cormie's meetings with those gentlemen. And I don't claim to have common knowledge of why they did what they did. 3 4 THE CHAIRPERSON: With that, we'll stand down. Thank you. 6 7 --- Upon recessing at 2:30 p.m. --- Upon resuming at 2:45 p.m. 9 10 THE CHAIRPERSON: Okay. The panel has had the opportunity to deliberate on the issues that 11 are before it and has agreed that it'll accept the --13 Mr. Harper, Dr. Simpson, and Dr. Gotham for the areas 14 of expertise that have been outlined by Mr. Williams. 15 So with that, we will proceed with the -- our schedule 16 for today. 17 So, Mr. Williams, please? 18 19 EXAMINATION-IN-CHIEF BY MR. BYRON WILLIAMS: 20 MR. BYRON WILLIAMS: Thank you. 21 Dr. Gotham, I wonder if you can turn to CAC Exhibit 65 22 and lead off. And -- and just for the benefit of the 23 record, I would ask that the witnesses, as they switch 24 from page to page, try and note the page change, so

that we -- we don't have Mr. Simonsen chastising me.

- 1 So if we can remember that, that would be great.
- DR. DOUGLAS GOTHAM: Thank you. I --
- 3 and I would invite questions as I go along, so please
- 4 feel free to interrupt the -- the presentation here.
- 5 I'm going to the -- the second slide, the outline.
- 6 This is the outline of the presentation that Dr.
- 7 Simpson and I will be giving:
- 8 Looking first at standard forecasting
- 9 approaches for load forecasting. Followed by a review
- 10 of the Manitoba Hydro load forecast, the -- the
- 11 modelling structure itself as well as the assumptions
- 12 going into it. Following that will be a response to
- 13 the Manitoba Hydro's rebuttal of the evidence and a
- 14 treatment of -- of new developments that have happened
- 15 over the course of the hearing, followed by a summary
- 16 and conclusion.
- 17 Slide 3 lists, on a very basic level,
- 18 standard forecasting approaches. Top down approaches
- 19 are essentially a way of looking at the -- the load
- 20 forecast from a system-wide basis or from a group of
- 21 customers, like the residential customers. Bottom up
- 22 forecast is built from the individual customer level,
- 23 or the individual device level, and then summed up
- 24 across that. Hybrid approaches are a blending of those
- 25 two (2) approaches. I'll have a little bit more detail

8370 on the specifics of different types of approaches. 2 Slide 4. 3 (BRIEF PAUSE) 5 6 DR. DOUGLAS GOTHAM: Trend analysis, also referred to as a linear trend or a simple regression analysis. This relies on the historical load itself to project the future load and does not take into account any of the causal factors that affect 10 11 electricity usage. 12 So it doesn't take into account things 13 like population growth. It doesn't take into account 14 things like gross domestic product. It doesn't take 15 into account personal income and -- and various other 16 factors that may affect electricity usage. 17 Advantage of -- of the trend analysis is 18 that it's easy to do. The problem is that it's 19 generally inaccurate. The trend analysis were probably the -- the most common method of forecasting through the '50s, '60s, and into the '70s. 21 22 In the 1970s, we saw a general failure 23 of trend analysis to capture significant changes that 24 were happening in the electric industry. The -- one 25 (1) of the things that we saw in Indiana -- one (1) of

- 1 the reasons the State Utility Forecasting Group was
- 2 formed was because of a failure of those trend analysis
- 3 forecasts.
- 4 Indiana was experiencing in the -- in
- 5 the '50s, '60s, and early '70s rapid growth in
- 6 electricity usage on the order of 6 to 8 percent per
- 7 year, and they were using trend analysis forecasts that
- 8 worked fine as long as we continue to see growth at 6
- 9 to 8 percent per year. In the mid-'70s we saw -- we
- 10 had the energy crisis. It was followed in the early
- 11 '70s -- or early '80s by the Rust Belt recession
- 12 referred to, which hit the midwest particularly hard,
- 13 including Indiana, which has a high -- heavy
- 14 manufacturing base.
- 15 And the forecast at the time, using
- 16 those trend analysis, kept assuming that once we get
- 17 through this we're going to get back to the 6 to 8
- 18 percent. Well, we didn't and -- but the utilities kept
- 19 building new generation in order to meet that expected
- 20 6 to 8 percent growth.
- 21 So trend analysis kind of died out in
- 22 the '70s, for the most part, in terms of a forecasting
- 23 method, largely replaced at the time with econometric
- 24 forecasts. And in -- in MISO's white paper in terms of
- 25 acceptable and unacceptable levels -- methods of

- 1 forecasting, they list trend analysis as an
- 2 unacceptable method.
- 3 The -- the other type of top down
- 4 forecast that I'm talking about today is econometric
- 5 forecasts. Econometric forecasts estimate the
- 6 historical relationship between the load and the
- 7 various factors that affect it, as I mentioned earlier,
- 8 things like population, personal income, gross domestic
- 9 product.
- 10 And so you -- you look at what is --
- 11 what the history has been in terms of the relationship
- 12 between those various factors and the load, and come up
- 13 with a mathematical model that explains history as well
- 14 as you can. And then you use that -- that
- 15 relationship, that mathematical relationship you've
- 16 developed, combined with projections of those factors
- 17 to determine what the future load is going to be.
- 18 Econometric forecasting generally gives
- 19 you improved accuracy. The downside to econometric
- 20 forecasts is if you have situations that may be
- 21 changing the historical relationship -- and a good
- 22 example of this is efficiency standards -- that may
- 23 affect the relationship between population and -- and
- 24 electricity load, for instance. Econometric models
- 25 have -- have some difficulty in capturing that. There

- 1 are things you can do to try to capture that, but it's
- 2 not easy. And I will -- and I should mention here that
- 3 MISO does consider econometric forecasting to be an
- 4 acceptable method.
- 5 Switching to the bottom-up approaches,
- 6 there -- one method of -- of forecasting is survey
- 7 based, or also known as informed opinion forecasts.
- 8 And in this case, you use information regarding certain
- 9 customer's future plans as the basis for the forecast.
- 10 So you go out and you -- you survey your customers.
- 11 Find out whether or not they plan on adding new loads,
- 12 adding new facilities, and then base your forecasts in
- 13 order to -- to meet what your customers tell you they
- 14 plan on doing.
- The nice thing about a survey-based
- 16 forecast is it does account for expected fundamental
- 17 changes in demand, especially from large users. So if
- 18 you know you have a new manufacturing facility that's
- 19 coming in next year, you can model that directly and --
- 20 and be certain that you've captured that load.
- 21 The problem with survey-based forecasts
- 22 is they tend to be inaccurate in the long term, largely
- 23 because customers generally don't have that good of a
- 24 handle on where they'll be ten (10) years from now.
- 25 Most -- if you look at customers who've gone bankrupt

- 1 in the last five (5) years, very few of them if you
- 2 talk to them in 2000 were expecting to go bankrupt at
- 3 that time period.
- And also you've got new customers that
- 5 may come in ten (10) years from now that you don't --
- 6 you haven't been talking to because you don't know
- 7 about them. So you can't capture that kind of increase
- 8 down the road that's likely to happen.
- 9 Another problem is it generally lacks
- 10 transparency. Those conversations are usually held
- 11 between the utility and the large customers without --
- 12 with the understanding that the utility is not going to
- 13 be sharing that information publically because that
- 14 would put the customers at a potential disadvantage if
- 15 their competitors knew what their plans were. And MISO
- 16 considers this method to be unacceptable.
- 17 And another bottom up approach is the
- 18 end-use model. In this case, total load is built up
- 19 from the individual device level. So essentially the
- 20 end-use model tracks the number of devices, looking --
- 21 taking into account their -- the various ages of the
- 22 devices, the efficiency levels of the devices, and then
- 23 going forward as you go in -- farther and farther into
- 24 the forecast, it models the addition of new devices, as
- 25 well as the per -- replacement of existing devices.

- 1 So some of the devices that are in
- 2 existence will assume to fail largely based on their
- 3 age. If they're failed, the model will then decide, Do
- 4 I repair it or do I replace it? And if I replace it do
- 5 I replace it with a high efficiency option, or a
- 6 standard efficiency option?
- 7 And the same thing goes true with new
- 8 loads. Is it going to be a high efficiency option? Is
- 9 it going to be a standard efficiency option?
- The nice thing about that is that you
- 11 can directly model changing energy efficiency
- 12 standards. And, so if the -- the standard on -- on
- 13 lighting has changed so that only high efficiency
- 14 lights are allowed, the model given -- in the year that
- 15 that standard comes into play, the model will only
- 16 allow -- be allowed to select the high efficiency
- 17 lighting, so it'll directly capture that.
- 18 It also will capture the competition
- 19 between different methods of -- of producing that end
- 20 use. So a end use model can look at space heating, for
- 21 instance, and -- and model the competition between
- 22 natural gas and electricity. And on the electricity
- 23 side it can look at direct resistive heating versus a
- 24 heat pump.
- The problem with end-use models: very

- 1 data intensive. And in some cases it doesn't capture
- 2 changes in customer behaviour very well. If there are
- 3 things driving the end use that -- the customer
- 4 decision besides pure economics, then you've got to
- 5 find a way to model that -- those -- those other
- 6 decision making factors within the -- the framework of
- 7 the end-use model. MISO considers this to be an
- 8 acceptable method.
- 9 A hybrid model employees facets of both
- 10 the top down and bottom up approaches. Most common,
- 11 and this is becoming more and more popular over the
- 12 last few years, is what's referred to as the
- 13 statistically adjusted end-use model. So it -- it uses
- 14 an econometric formulation within the framework of the
- 15 end-use model and it does a better job of capturing
- 16 those non-economic factors that -- that go into
- 17 customer decision making process.
- 18 So if their des -- if they're making a
- 19 decision not just because it's the cheapest option,
- 20 because they want to be green or because they want to
- 21 buy local or whatever it is, the econometric
- 22 formulation is -- it do -- with it be -- embedded
- 23 within the statistically adjusted end-use model, will
- 24 help capture those types of decision making effects.
- 25 The -- the downside to this is increased

- 1 model complexity. The end-use model itself is -- is
- 2 very data intensive and complex with statis --
- 3 statistically adjusted end-use model is even more so.
- 4 And then MISO considers this, again, a -- also to be an
- 5 acceptable method of forecasting.
- 6 MR. BYRON WILLIAMS: Dr. Gotham, before
- 7 you turn it over to Dr. Simpson, can you just briefly
- 8 describe the approach that you use in -- in Indiana,
- 9 taking into account both your primary tools and also
- 10 validation checks that you employ.
- DR. WILLIAM GOTHAM: Certainly. We
- 12 model each of eight (8) different utilities within the
- 13 state of Indiana. And for each one of those eight (8)
- 14 utilities, we separate them into residential,
- 15 commercial and industrial classifications.
- 16 For our industrial models, we use an
- 17 econometric approach. For the residential and
- 18 commercial models, we have both end-use and econometric
- 19 models. And so when we run a forecast, we'll run both
- 20 sets of those models.
- 21 For several years now, going back to the
- 22 '90's, we've used the end-use model for the commercial
- 23 sector as our primary forecast method, although we'll
- 24 run end -- the econometric model and check to see
- 25 whether or not it's consistent with what's going on

- 1 elsewhere, what the difference is between the end-use
- 2 model and the econometric model, why are they
- 3 different. The reason we use the end-use mo -- we've
- 4 used the end-use model over the econometric is that we
- 5 found that it does a better a job.
- 6 On the residential side, starting with
- 7 our 2011 forecast, we switched from an econ -- the
- 8 econometric model to the end-use model. And the
- 9 primary reason we've made that switch was because of
- 10 the upcoming federal efficiency standards on lighting,
- 11 which we felt the end-use model would do a better job
- 12 of capturing than the econometric model.
- 13 THE CHAIRPERSON: Could you repeat the
- 14 methodology you use for industrial?
- DR. DOUGLAS GOTHAM: Industrial my --
- 16 the -- our industrial model is an econometric
- 17 formulation and it's what is referred to as a CLEM
- 18 model, Capital, Labour, Energy, and Materials. And so,
- 19 it's uses as the primary driver, manufacturing output,
- 20 and we divide that up into industry types. And so,
- 21 automobile parts and manufacturing would be an industry
- 22 type. Primary metals, so making iron, steel and
- 23 aluminum would be another industry type. Chemicals,
- 24 and so forth.
- 25 And each one of those has a -- an

- 1 econometric formulation that will choose the method the
- 2 -- it will choose between cap -- using capital, using
- 3 labour, using energy, or using materials to meet those
- 4 -- that projected output from those -- those sectors.
- 5 THE CHAIRPERSON: And how -- how do you
- 6 capture a new entrant, a large new entrant, in a model
- 7 like that?
- 8 DR. DOUGLAS GOTHAM: The -- the capture
- 9 is to -- to some degree the capture is going to come
- 10 from the -- the input projections in terms of
- 11 manufacturing output. So we get our -- our projections
- 12 from Indiana University School of Business and they
- 13 project how much production is going to happen in those
- 14 various industries.
- We have, in the past, -- and this goes
- 16 back to the '90's -- we have made adjustments to those
- 17 models, based on specific knowledge we had at the time.
- 18 We had a -- two new steel processing facilities that
- 19 are very electric energy intensive coming in. And so
- 20 we made adjustments essentially to the inputs of -- in
- 21 term -- of the -- the I should say -- the input driver,
- 22 the -- the manufacturing output, to reflect the
- 23 increase in that. So we -- you still did it within the
- 24 framework of the econometric model, but we adjusted the
- 25 inputs to reflect the increasing output that was going

- 1 to happen because of that -- those new facilities.
- 2 MR. BYRON WILLIAMS: And just to
- 3 confirm before we turn it over to Dr. Simpson, for the
- 4 residential and commercial, you would run both the end-
- 5 use analysis and the econometric.
- 6 But the primary mechanism right now is
- 7 the end-use analysis?
- 8 DR. DOUGLAS GOTHAM: That -- that is
- 9 correct. We run -- we run both sets whenever we do a
- 10 forecast, and we -- as of the -- the last two (2)
- 11 forecasts, our -- we have used both -- on the
- 12 residential and commercial side, used the end-use model
- 13 for the model that we report.
- 14 MR. BYRON WILLIAMS: Dr. Simpson, over
- 15 to you, please.
- 16 MS. MARILYN KAPITANY: Just before you
- 17 do that, could I just ask one (1) question, Dr. Gotham?
- 18 You mentioned that the econometric model has good
- 19 accuracy, but it doesn't account for things that change
- 20 historical relationships.
- 21 We heard a lot yesterday about
- 22 structural change happening in the indus -- in -- in
- 23 the energy industry where there are some game-changing
- 24 technologies coming on.
- 25 How would you capture those kind of

- 1 things?
- DR. DOUGLAS GOTHAM: There are things
- 3 you can do within a -- an econometric model to try to -
- 4 to try to capture those things. One (1) of them is
- 5 adjusting your input assumptions, and another one is
- 6 using what we refer to as a dummy variable, where
- 7 you're putting in a -- a variable that essentially has
- 8 no value until a certain time period, when you expect
- 9 that change to occur. And then that -- then that --
- 10 that variable essentially kicks in and -- and then
- 11 affects the -- the forecast going forward.
- But all of those things are kind of
- 13 workarounds, and one (1) of the reasons why I mentioned
- 14 that that's an issue with the econometric model. So
- 15 it's kind of -- the model doesn't do it well, but there
- 16 are things you can try to do to -- to get the model to
- 17 go in the direction you want it to.
- 18 MS. MARILYN KAPITANY: So you watch the
- 19 trends, and then you adjust your model accordingly?
- DR. DOUGLAS GOTHAM: We have, yes.
- 21 MS. MARILYN KAPITANY: Thank you.
- 22
- 23 CONTINUED BY MR. BYRON WILLIAMS:
- 24 MR. BYRON WILLIAMS: Just to follow up
- 25 on Board member Kapitany's question, Dr. Gotham, would

- 1 it be fair to say that you would run also different
- 2 scenarios for forecasting exercises?
- 3 DR. DOUGLAS GOTHAM: Yes. We do -- we
- 4 always -- for our -- for our primary forecast, we run -
- 5 we always run at least a base case and a low and a
- 6 high scenario. And then for various other analysis
- 7 we've done, we -- we'll do other types of scenarios
- 8 where we're looking at some specific issue.
- 9 MR. BYRON WILLIAMS: And for your most
- 10 recent forecast in Indiana, can you tell us what the
- 11 low forecast scenario was?
- 12 DR. DOUGLAS GOTHAM: I don't remember
- 13 the specific results of that analysis. The way we do
- 14 our low and our high forecasts are essentially through
- 15 low and high assumptions, in terms of those economic
- 16 drivers.
- So I -- I mentioned we get our forecast
- 18 from Indiana University's business school. They
- 19 provide alternative low- and high-growth economic
- 20 projections that we'll put into our model, and then
- 21 we'll run those projections through our modelling
- 22 system. That's the -- the standard way we've done our
- 23 -- our low and our high scenarios for our traditional
- 24 forecast.
- MR. BYRON WILLIAMS: Finally, might you

- 1 have run a zero load growth scenario as a load scenario
- 2 for the most recent forecast, or is that -- you're not
- 3 sure, sir?
- 4 DR. DOUGLAS GOTHAM: That's not
- something that we would have done, a zero load growth
- 6 forecast, because the primary thing we're looking at is
- 7 what is the forecast.
- 8 MR. BYRON WILLIAMS: Right.
- 9 DR. DOUGLAS GOTHAM: And so we don't
- 10 override the output of the forecast as a scenario.
- MR. BYRON WILLIAMS: Thank you.

12

13 (BRIEF PAUSE)

- DR. WAYNE SIMPSON: Okay. Well, thank
- 16 you for giving the opportunity to present, and I'd like
- 17 to say I've -- I've enjoyed very much, you know,
- 18 working with Dr. Gotham and his considerable skill set
- 19 in developing this load forecasting report.
- 20 What I was asked to do was look at the
- 21 Hydro forecast as it occurs in the NFAT. And I'd first
- 22 like to say, as I say in the report, or the Part 2 of
- 23 the report, and this is something I did write alone,
- 24 which is that a lot of things are said about the load
- 25 forecast in the Elenchus report, and I don't intend to

- 1 repeat those things.
- They've made some significant points
- 3 about the lack of sufficient attention to alternative
- 4 population and economic growth scenarios, alternative
- 5 energy sources, and so on. And I won't have much to
- 6 say about that.
- 7 What I do is focus on some of the
- 8 limitations of the forecasting methodology, some of it
- 9 covering old ground in the sense of the -- of the
- 10 comments I made about the Kubursi/Magee Report which
- 11 didn't get into the record, so I guess I can make them
- 12 for the first time now.
- 13 And also, more particularly, because
- 14 here I think we can say some things about how the
- 15 forecast is biassed, talk about the consideration on
- 16 the -- of the prices, electricity, the rates on -- on
- 17 the load forecast.
- 18 So first, some of the general issues.
- 19 The -- as Dr. Gotham said, the Hydro load forecast is a
- 20 hybrid model. It uses different approaches, some of
- 21 them acceptable under the MISO standard and some not.
- 22 And to some extent, we can contrast this with a unified
- 23 approach. I think the unified approach that one would
- 24 focus on and certainly that is my area of expertise
- 25 would be an econometric approach.

- 1 And there are certainly advantages to
- 2 using a hybrid model in the sense that you aren't
- 3 wedded to econometric model. And Dr. Gotham has
- 4 alluded to that in discussing the advantages, for
- 5 example, of using end-use modelling in certain
- 6 circumstances. It is more complex, and that introduces
- 7 some new questions, and I have three (3) of them, I
- 8 guess.
- 9 They are -- one (1) is the complexity of
- 10 assessment. The blend of approaches in the hybrid
- 11 model makes assessment complex. I was asked to look at
- 12 within sample reliability, which is one (1) of your
- 13 measures at least in the short-term stage of -- of
- 14 forecasting accuracy. That's more easily done with the
- 15 unified econometric approach, somewhat more difficult
- 16 with a hybrid model, especially a hybrid model that
- 17 uses, in fact, quite a wide variety of techniques.
- 18 Secondly, the clarity of the different
- 19 methods. Asked whether the NFAT load forecasting
- 20 methodology is clear. Dr. Gotham and I found it
- 21 difficult to understand the methodology, exactly what
- 22 was being done at various points and the -- the
- 23 justification for the different methods that were used
- 24 as comparison to alternatives, so by the individual
- 25 components of this hybrid forecast justified compared

- 1 to standard alternatives and considering a more unified
- 2 approach that is an econometric approach. Again,
- 3 unclear from the NFAT and the load forecasts in there
- 4 and how they are described and presented.
- 5 So first -- the first element is the
- 6 residential load forecast. And I'll have more to say
- 7 in terms of the price impacts, focussing on this
- 8 sector, later because I think it's the one we can -- we
- 9 have the most evidence on.
- 10 The load forecast is a consensus
- 11 population forecast from the independent population
- 12 forecasts that are commissioned by Manitoba Hydro which
- 13 feeds into a household forecast based on some estimate
- 14 of the size of households, and then a residential
- 15 households load forecast based on an estimate of the
- 16 percentage share of electric heating in those
- 17 households.
- 18 So down the right-hand side we have a
- 19 couple of areas where there are estimates being
- 20 introduced. The size of household, there's an average
- 21 -- an old average being used. And this has been
- 22 discussed, I see, in the -- in the testimony at some
- 23 length. The obvious comparator would be some sort of a
- 24 regression approach which would introduce some
- 25 structural factors, some causal factors into the

- 1 analysis and say, is the size of the household changing
- 2 over time, are there demographic and economic factors
- 3 that are driving this, indeed, are there trends
- 4 because, I mean, one (1) of the components of
- 5 econometric analysis could be a trend analysis, so it
- 6 kind of sup -- supercedes the old trend analysis
- 7 approach that Dr. Gotham discussed.
- 8 And certainly in the case of Indiana,
- 9 Dr. Gotham can speak to this more, there -- there was
- 10 actually a headship model used to estimate the -- the
- 11 size of -- the average size of households.
- 12 Taking the average size of households
- 13 and the population you get an estimate of households.
- 14 Then you look at the percentage electric heating share
- 15 again. Here we have a five (5) year moving average
- 16 used. This is a pretty simple time series model --
- 17 modelling approach. This is a part of time series
- 18 modelling. A more general approach would be an
- 19 autoregressive integrated moving average model; that's
- 20 a standard time series approach that's still widely
- 21 used. But more than that, you know, again we could
- 22 have econometric modelling.
- 23 And it's not clear in these cases
- 24 whether these alternatives were tried and rejected.
- 25 And if they were rejected, on what basis they were

- 1 rejected.
- 2 So the question here is whether some
- 3 sort of top down econometric approach might, in fact,
- 4 do a better job of -- of developing a residential load
- 5 forecast, whether there are these systematic
- 6 demographic and economic factors that would explain
- 7 things like household size and electric heating share
- 8 better than the models that are being introduced.
- 9 And there are some pretty standard
- 10 methods of comparing forecasts based on different
- 11 methods that could be used to see which -- which models
- 12 do the best. And I would note that, for example, as
- 13 Dr. Gotham has discussed in the Indiana case, the sort
- 14 of parallel running of end use and econometric models,
- 15 because while they find right now, for example, that
- 16 the end use models are doing better both in terms of
- 17 their forecasting accuracy and maybe the capability to
- 18 do certain things, who knows when the econometric
- 19 models will -- will have a resurgence and -- and do
- 20 better as well.
- 21 And if you keep different competing
- 22 models open you, of course, have a better opportunity
- 23 to make those kinds of assessments. You know,
- 24 economists talk a lot about competition and the virtues
- 25 of competition. I think in this case drawing a -- an

- 1 analogy from that to -- to econometrics, model
- 2 competition is generally a good thing. If you get
- 3 stuck in a stayed model where you aren't systematic in
- 4 comparing the -- the model with potential alternatives,
- 5 and I think largely in this case alternative
- 6 econometric models, then you have -- you have poton --
- 7 potential for errors in your forecasting.
- 8 The general service mass market does use
- 9 a -- a regression model. Oh, yeah, sorry. The general
- 10 service mass market -- it's confusing. There's two (2)
- 11 screens doing different things.
- 12 A regression model, here the -- there
- 13 have been various changes to the specification. What's
- 14 hard to understand is what statistical criteria are
- 15 being used to decide what specification is the best.
- 16 In other words, what's the best model, the question of
- 17 model selection. What is the justification for the
- 18 model being used? And is that justification related to
- 19 the reliability of the forecast?
- 20 Not only is there competition among
- 21 different types of models, say end use models versus
- 22 econometric models, but there's also typically
- 23 competition between different type of econometric
- 24 models. The modern standard, certainly in economics
- 25 and empirical work in economics is that a variety of

- 1 econometric models are positive that are consistent, or
- 2 plausibly consistent with the -- with the problem being
- 3 addressed, the model being specified.
- 4 And the econ -- the models are then
- selected on the basis of specific criteria, whether
- 6 those criteria are the significance of coefficients,
- 7 the overall significance of the regression, or other
- 8 information criteria, other more sophisticated tests,
- 9 the point is that there's model competition even when
- 10 you go to an econometric model within different models
- 11 and justifying that the model you have is the best one.
- 12 And that's a continuing process, a year-
- 13 to-year process because, of course, variables that
- 14 aren't important at one (1) point in time but you think
- 15 might be relevant to the problem could have -- could
- 16 become important at other stages as -- as circumstances
- 17 change. And that's something you're trying to capture.
- 18 The other element of the GSMM forecast
- 19 is the electricity utilization. Again here there's a
- 20 simply time series moving average process versus more
- 21 complex time series models, but also against
- 22 econometric models. And it's not clear whether
- 23 systematic effects, such as prices and incomes would
- 24 matter here. As well, there's no -- there's no testing
- 25 going on competing -- against competing models of an

- 1 econometric variety.
- MR. BYRON WILLIAMS: Dr. Simpson,
- 3 you're just leaving slide 12. And lest I be chastised
- 4 by Dr. -- or Mr. Simonsen, we're moving on to --
- DR. WAYNE SIMPSON: Thank you.
- 6 MR. BYRON WILLIAMS: -- we're moving on
- 7 to slide 13.
- 8 DR. WAYNE SIMPSON: The top customer
- 9 forecast here is simply an assessment from Hydro's
- 10 experts, informed opinion, in -- in Dr. Gotham's terms.
- 11 It's not the MISO standard. There's a consistent
- 12 upward bias. And here the question is: If you have a
- 13 consistent upward bias, what competing model might do a
- 14 better job?
- The obvious competitor would be some
- 16 sort of econometric model. And I don't see any
- 17 introduction of a competing model to justify the use of
- 18 the -- of the top customer forecast methodology that
- 19 Hydro uses, or to assess the reliability of one (1)
- 20 model versus another.
- 21 Again, model competition, standard
- 22 selection criteria would be a good thing.
- 23 Trend versus volatility. Next slide,
- 24 sorry. The -- Hydro discusses a lot about weather, but
- 25 my impression from this discussion is it's largely

- 1 about heating/cooling days and what I would call short-
- 2 term volatility.
- 3 We're looking at a fairly long-term
- 4 assessment here, assessments of thirty (30) to seventy-
- 5 eight (78) years. And I would think what's more
- 6 important is the trends in things like heating and
- 7 cooling days, or what we typically now call climate
- 8 change but, also, the influence of other long-term
- 9 factors: population growth, GDP growth.
- 10 These are things that Elenchus has
- 11 discussed at length in terms of the alternative
- 12 scenarios that might be explored, and the one that I'm
- 13 going to talk a little bit about, energy price, in
- 14 particular, the electricity price.
- 15 And it's not clear how the alternative
- 16 population/GDP scenarios affect the comparison of
- 17 plans. This is the Elenchus argument. But it's also
- 18 the case that price effects have not been considered at
- 19 all. And as an economist, it seems to me I've got to
- 20 say something about prices in this context.
- 21 Electricity is a -- is a fairly standard
- 22 good. Consumers need it and buy it in significant
- 23 quantities, and I think are probably relatively well
- 24 informed about how it impacts on their budgets. And on
- 25 Wednesday, Mr. Stevens and I talked a little bit about

- 1 it across different kinds of households.
- 2 The discussion here is really just about
- 3 what we would call the average representative
- 4 household, but the -- the basic ideas of consumer
- 5 demand in terms of the theory and the evidence are
- 6 appropriate to this kind of analysis.
- 7 And the factors that are involved in
- 8 that consumer demand traditionally are income, which is
- 9 captured with the GDP; population or simply the
- 10 analysis of demand in per capita terms, which I adjust
- 11 for population; the price of electricity, which I've
- 12 bolded because I'm going to talk a fair amount about it
- 13 in the rest of my presentation; and then the prices of
- 14 close substitutes and complements, other energy prices,
- 15 the whole question of fuel substitution which I think
- 16 is quite important, especially when we're looking at
- 17 the kinds of changes in the prices of electricity that
- 18 are actually likely to occur over the next thirty (30)
- 19 years.
- 20 The trouble there is I don't see a lot
- 21 of evidence that allows me to say a great deal about
- 22 this, and I'm not going to stray into things that I
- 23 don't feel I can -- I can make any specific comments
- 24 about except to say that these things likely matter.
- 25 And if they -- if alternative fuel sources get cheaper

8394 and electricity gets more expensive, you're going to likely see a fair amount of fuel switching of one (1) form or another. 3 And then other factors like weather. But again, in the context of the long-term weather changes because we're looking at the annual load forecasts over a -- a lengthy period of time. 7 8 The Hydro -- the NFAT admits that prices 9 matter. And I've simply taken from chapter 3 the following quote, which I'll read: 10 11 "There are also linkages between 12 electricity prices and demand. Lower 13 priced power prices tend to spur 14 demand and reduce the incentive for 15 efficiency which over time puts 16 upward pressure on prices. Higher 17 power prices, on the other hand, tend 18 to do the opposite, spurring new 19 supply and depressing demand, which 20 in turn moderates those high power 21 prices over time." 22 Prices matter. The demand as well as 23 supply down -- demand curve slope downward. These are 24 the -- this is kind of the gospel of -- of first-year

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economics, if not the rest of the discipline.

8395 But, in fact, there's no consideration 1 of prices in the 2012 or 2013 load forecast. There is some consideration in the subsequent interrogatories, 3 but I think it's fair to say that it assumes a fairly limited commu -- consumer response, and one that I would argue is not consistent with what I see in the literature from other jurisdictions where they have had 7 a chance, where prices have varied considerably, to see how consumers respond. 10 So I want to make a couple of points. 11 One (1) point is that the projected real rates -- rate 12 increases in electricity prices are substantial over time. 13 14 And Mr. Stevens and I produced a graph 15 on Wednesday afternoon that in fact illustrated this, 16 looking at the nominal growth in prices of 4 percent and the real growth of 2 percent, assuming inflation 17 18 rates of 2 percent, which are consistent with the Bank 19 of Canada's target inflation rate. 20 And again, in the NFAT, Appendix D: 21 "The real electricity price is 22 forecast to increase by 1.7 percent 23 in 2013/'14, and then increase by 2 24 percent per year through the rest of 25 the forecast period"

- 1 which implies a cumulative increase of
- 2 around 80 percent, actually a little over 80 percent,
- 3 in electricity prices above general price inflation
- 4 over thirty (30) years.
- 5 So what's the impact of this? I mean,
- 6 the basic argument is that an economist would expect
- 7 that there would be a significant consumer response to
- 8 this. That over time, given the options, that
- 9 consumers would use less, they'd conserve, which would
- 10 make conservationists happy, I guess. They would use
- 11 alternative energy sources, fuel switching, depending
- 12 on what's happening to other fuel prices, and take
- 13 advantage of new technologies that will arise over the
- 14 next thirty (30) years, some of which we can't foresee.
- 15 And the point is that consumers have
- 16 options and will react, and they will react like they
- 17 have in other jurisdictions.
- 18 The second point is that there will be a
- 19 consumer response over time. And the response is
- 20 typically encapsulated in what is called the own price
- 21 elasticity of demand which measures in a unit-free
- 22 sense so we can transport it across different
- 23 situations, the percentage change in the consumption of
- 24 electricity that arises from a 1 percent change in the
- 25 price of electricity.

- This is the standard measure that's used
- 2 across economics. And one (1) of its virtues is that
- 3 it can be used in the kinds of 'what if' scenarios that
- 4 economists and forecasters use. That is to say we can
- 5 say, What if prices increase, as they are here, by 80
- 6 percent over time, what is the likely consumer response
- 7 given what the literature tells us are the likely range
- 8 of outcomes for the own price elasticity.
- 9 In the NFAT, the -- the implication is
- 10 that the effect of the price increases on consumer
- 11 demand will be zero. In your interrogatories, I think
- 12 the implication is that they will be small. It would
- 13 be difficult, certainly not impossible, to tease out
- 14 estimates of the price elasticity of demand for
- 15 electricity in Manitoba.
- 16 We have information on consumption. We
- 17 have information on prices and an analysis could be
- 18 done. It's not one (1) of the -- a place that an
- 19 economist looking for a publication in a peer-reviewed
- 20 journal would look because there's been fairly limited
- 21 variation in the real price of electricity. And what
- 22 economists would look for, what they would call a good
- 23 identification strategy, would be situations, and one
- 24 (1) example is Indiana, where Dr. Gotham can speak more
- 25 to the -- to the details, where there has been a sharp

- 1 increase or, in some cases, a sharp decrease in prices
- 2 and they've been able to measure consumer responses
- 3 over a period of time.
- We suspect that, in the short-term, less
- will happen than the long term, all right. So in the
- 6 long term, elasticity will be -- be larger because
- 7 consumers will be more able to absorb what the impact
- 8 is and will be more able to figure out what the
- 9 responses are either through their own analysis or
- 10 through what other people say is a better way of going
- 11 about dealing with the rising price effects.
- 12 What I have done is I've taken,
- 13 essentially, a meta-analysis that has looked at peer-
- 14 reviewed studies, and this is from the E3 (phonetic)
- 15 network online. And it says:
- "Based on a review of these surveys,
- 17 peer-reviewed journal articles, the
- 18 numbers that come out most often are
- 19 zero point two (0.2) for the short-
- 20 run and zero point seven (0.7) for
- 21 the long-run."
- 22 And basically, we are dealing with the
- 23 long-run here. We're dealing with a forecast that's
- 24 looking out thirty (30) years. That's -- that's a
- 25 pretty long run. I mean, Cain's view was, in the long-

- 1 run, we're all dead. I don't want to say we'll be dead
- 2 in thirty (30) years, but in thirty (30) years we'll
- 3 all be a lot older.
- 4 So I choose something closer to the top
- 5 end of this range, the long-run end. And I choose zero
- 6 point five (0.5) to illustrate, which is a little bit
- 7 more conservative.
- 8 If I remember correctly, the evidence
- 9 for Indiana, for example, found elasticity estimate.
- 10 I'm not sure whether they characterized it as short
- 11 term or long term of zero point four (0.4). So zero
- 12 point four (0.4), zero point seven (0.7), zero point
- 13 five (0.5) seems like a reasonable figure to use.
- 14 And then the third thing I tried to do
- 15 is illustrate that the response to the load forecast in
- 16 subsequent investment decisions is significant. So I
- 17 choose from the literature this .5 long-run price
- 18 elasticity estimate. Take the 80 percent price
- 19 increase over thirty (30) years, and get a 40 percent
- 20 reduction in load. It's half as large. But that's
- 21 pretty substantial because if you look at Hydro's
- 22 residential forecast it's 1.6 percent load growth per
- 23 year. One two -- .2 percent due to population, .4
- 24 percent load growth due to usage, and a ratio of 3:1.
- 25 Population growth is three (3) times as important as

- 1 usage growth in their -- in their forecast.
- This leads to a load growth of 60
- 3 percent over thirty (30) years; 45 percent due to
- 4 population, 15 percent due to -- to usage, the 3:1
- 5 ratio. Without price effects. There are no price
- 6 effects in here.
- 7 But what you see in the -- the price
- 8 effects, if you take an elasticity estimate of point
- 9 five (.5), are pretty big. Forty (40) precent
- 10 reduction in load. Well, a 40 percent reduction in
- 11 load is more than the 50 -- 15 percent increase in
- 12 usage that they predict and leads actually to -- to a
- 13 25 percent decline in usage over thirty (30) years,
- 14 coupled with a -- a 45 percent increase due to
- 15 population, if you accept the population forecast in
- 16 the NFAT, and the overall increase in load is 20
- 17 percent, not 60 percent.
- 18 So the effect of thinking about the
- 19 price effects consistent with the kind of evidence that
- 20 is in the literature is that it reduces the forecast by
- 21 a factor of two-thirds.
- 22 So in Chapter 12, the NFAT projects load
- 23 growth of -- what I've put here is 7.9 gigawatt hours.
- 24 I'm sorry, I -- I did get the number right in the
- 25 report but I don't want to say my eyes are failing me

- 1 but I misread the comma as a decimal. It's 7.9
- 2 thousand gigawatt hours. These don't matter 'cause
- 3 I've been consistent in my -- my visual problems.
- 4 To -- that -- that's 7.9 thousand
- 5 gigawatt hours to 2031/'32. One-third of that is
- 6 residential because residential is only one-third of
- 7 load growth. That's 2.63 thousand gigawatt hours. And
- 8 the -- if the price effect reduces load growth by a
- 9 factor of two-thirds, that's 1.76 thousand gigawatt
- 10 hours. I don't know what that means in terms of
- 11 electricity. It seems like a lot of electricity.
- But it reduces load growth using their
- 13 figures by four point two (4.2) years. If we look at
- 14 the 2013 load forecast, also in Chapter 12, just to get
- 15 a sense of the -- of the size of this, the import of
- 16 this which is what I'm trying to do, the forecast
- 17 revisions there in 2013 reduce load growth by three (3)
- 18 years, and they defer need for new resources by one (1)
- 19 year.
- 20 But we've got reductions in load growth
- 21 of four point two (4.2) years based on the NFAT figures
- 22 because a year of load growth is 420 gigawatt hours,
- 23 from the NFAT. So taking these figures, the
- 24 residential price response alone, which is a third of
- 25 load, would defer resources by one (1) plus years using

- 1 the NFAT's own figures on what the implication is of
- 2 this size of reduction in load growth.
- If we add in the general service mass
- 4 market and the top customers, which constitute two-
- 5 thirds of load, and we think that they may be as
- 6 sensitive to price as the consumers, there arguably is
- 7 less evidence on this -- on the producer side than
- 8 there is on the consumer side, but that would suggest
- 9 that the reduction in resources would be in the order
- 10 of -- resources needed would be in the order of three
- 11 (3) to four (4) years.
- 12 That is to say, the need for new
- 13 capacity based on the NFAT's own figures could be
- 14 deferred as much as three (3) to four (4) years simply
- 15 by building in the price effects using the kinds of
- 16 responses that we observe in the peer-reviewed
- 17 literature.
- 18 MR. BYRON WILLIAMS: Dr. Simpson,
- 19 before you leave this slide, just because we have a
- 20 typographical or eyesight error on this page, you're
- 21 referring to slide 20 of CAC Exhibit 65, and --
- DR. WAYNE SIMPSON: Yes.
- 23 MR. BYRON WILLIAMS: -- what you're
- 24 telling us on the first line is the figure of 7.9
- 25 gigawatt hours is -- should be seven thousand nine

- 1 hundred (7,900)?
- DR. WAYNE SIMPSON: Seventy-nine
- 3 hundred (7,900), right.
- 4 MR. BYRON WILLIAMS: Okay. And then
- 5 the next line, when we see the two point six three
- 6 (2.63) that should be two thousand six hundred and
- 7 thirty (2,630)?
- B DR. WAYNE SIMPSON: Right.
- 9 MR. BYRON WILLIAMS: And likewise on
- 10 the third line, the one point seven six (1.76), we
- 11 should move the decimal point over three (3) to the
- 12 right.
- 13 DR. WAYNE SIMPSON: Seventeen hundred
- 14 and sixty (1,760), yeah. So those should all be
- 15 written -- read as thousands of gigawatt hours.
- 16 MR. BYRON WILLIAMS: And you'll move to
- 17 slide 21 now?
- DR. WAYNE SIMPSON: Right. And then
- 19 finally I was asked to look at load forecast
- 20 reliability. And I -- I find it difficult to assess
- 21 the hybrid approach that Hydro has used, compared with,
- 22 say, an econometric approach, where within sample
- 23 reliability pops up with our squared statistics. And
- 24 there's other measures of -- of forecasting reliability
- 25 that can be used. I don't think it's impossible to

- 1 evaluate the forecasting reliability of a hybrid
- 2 approach with modern replication methods, but that has
- 3 not been done. And in any case, I think the beyond
- 4 sample reliability is far more important; in other
- 5 words, looking over the thirty (30) year relia --
- 6 horizon and looking instead at the reliability of the
- 7 projections for population, for income and the
- B sensitivity of load forecast to these projections. And
- 9 this is something that Elenchus report and their
- 10 testimony to you has -- has covered. And I -- I simply
- 11 point out that it's -- it's there in their report and
- 12 testimony.
- 13 But it should also depend on the
- 14 projections for prices, the not inconsiderable 2
- 15 percent increases in real electricity prices per annum,
- 16 which, if ignored, could inflate the load forecast and
- 17 new system requirements significantly. And I've
- 18 suggested it could exaggerate the needs for new
- 19 electricity by as much three (3) to four (4) years.

20

21 (BRIEF PAUSE)

- 23 DR. DOUGLAS GOTHAM: So we're on slide
- 24 22, the title slide for the rebuttal evidence in new
- 25 development section, and switching to slide 23. And

- 1 this section focuses mostly on looking at the -- the
- 2 Manitoba Hydro rebuttal and our responses to it.
- 3 Page 3 states that the evidence of
- 4 Elenchus and Dr. Simpson and Gotham focus their review
- 5 on Manitoba load growth over the last ten (10) years.
- 6 We feel that this statement is erroneous and at least
- 7 in our case, we did not focus at all on load growth in
- 8 the last ten (10) years. We focussed on issues
- 9 associated with the methodology itself, the
- 10 assumptions, and the transparency of the model. At no
- 11 point did we focus our evidence on Hydro's recent load
- 12 growth. So I think Hydro has erroneously lumped us in
- 13 with Elenchus when it comes to this comment.
- 14 Slide 24, on page 5 of the rebuttal, in
- 15 response to our concern over the projected load growth.
- 16 In light of other forecasts, Hydro presented an
- 17 outdated table from the North American Electric
- 18 Reliability Corporation, NERC, that had generally
- 19 higher forecasts than the most recent version. Not
- 20 higher for all of them, but generally higher. As --
- 21 and the -- that -- an updated version of that has been
- 22 filed in the hearing. I would note that -- that
- 23 updated version, the 2013 NERC report, does indicate
- 24 that load forecasts have been declining steadily over
- 25 the last decade.

- 1 Slide 25, page 8 of the rebuttal,
- 2 provides the historical number of people per household,
- 3 which I've got up here on the slide.
- And on slide 26, Hydro states that this
- 5 trend is clearly demonstrated in overall decline in
- 6 levelization of people per household to around two
- 7 point seven-nine (2.79). We would submit that that
- 8 levelization from that graph is not clear to us. What
- 9 is clear is that it changes over time in response to
- 10 something, some phenomena or -- or phenomenon or
- 11 phenomena out there affecting that, which is why we
- 12 state that a more analytically sound approach is
- 13 appropriate than just assuming that the last value will
- 14 hold true forever.
- 15 Slide 27, page 13, and this was in
- 16 response to a -- a -- in their rebuttal, referring to
- 17 an issue with Elenchus. Tho -- through the econometric
- 18 model used to create the general service mass market
- 19 forecast, Manitoba Hydro has found a significant
- 20 relationship between customer growth and the
- 21 residential basic sector and growth in GDP to customer
- 22 growth in the general service mass market sector and
- 23 forecast using this relationship.
- 24 We would like to point out that since
- 25 the number of residential customers is also an inpoint

- 1 -- input not just to the residential forecast, but the
- 2 -- to the general service mass market forecast, this
- 3 means it's even more important to have a reasonably
- 4 good, analytically sound method of projecting the
- 5 number of residential customers.
- 6 Slide 28. In referring to the average
- 7 use per dwelling on pages 10 and 11, paragraphs
- 8 labelled 2 and 3 in the rebuttal indicate that the
- 9 percentage of dwelling using electricity for space and
- 10 water heating is expected to increase based on current
- 11 trends.
- 12 It's our belief that while that is the -
- 13 the past trends, in terms of electricity price and
- 14 natural gas, and having years of low, stable
- 15 electricity prices, and a -- a fairly recent period of
- 16 high gas prices, up until the last couple of years,
- 17 would tend to drive more electricity space heat --
- 18 space and water heating. However, that's not going to
- 19 be the case in the future as electricity prices rise,
- 20 as we've heard in this hearing.
- 21 And I would note that in MH-87, slide
- 22 82, indicates that Manitoba Hydro will be considering
- 23 DSM initiatives involving fuel switching. So that may
- 24 drive some additional fuel switching. But we expect
- 25 that prices alone will start to -- to change the -- the

- 1 way customers decide to heat their home when they make
- 2 that decision.
- 3 Slide 29, referring to the growth in top
- 4 consumers. On page 13 Dr. Simpson and Gotham discount
- 5 Manitoba Hydro's use of informed opinion and time
- 6 series and its forecast of top consumers on the basis
- 7 that such approaches are deemed unacceptable under
- 8 MISO's list of forecasting methods.
- 9 They then attempt to defend the use of
- 10 in -- informed opinion forecast in the short-term, but
- 11 do not address the use of a linear trend for the long-
- 12 term, which is also a non-acceptable method.
- 13 Furthermore, the section 2.3.5.2, which addresses an
- 14 Elenchus concern, does not address any of our criticism
- 15 in terms of the -- the long-term load -- top customer
- 16 load growth.
- 17 Slide 30, page 14. This assessment is
- 18 based upon only the most recent five (5) year period
- 19 and is dominated by the unexpected closure of one (1)
- 20 top consumer and by the recent economic downturn.
- 21 Again, I would like to point out that this is one (1)
- 22 of the problems with using informed opinion forecasts.
- 23 The fact that you had a closure of one (1) top consumer
- 24 and that it was unexpected shows that you can't
- 25 anticipate everything that's going to happen in the

- 1 future to -- to capture those kind of things.
- 2 Slide 31, referring to price elasticity,
- 3 page 19. Manitoba Hydro has among the lowest
- 4 electricity prices in North America, as outlined in
- 5 Manitoba Hydro's response to PUB/MH-1-256. Electricity
- 6 prices have increased slowly or at close to the rate of
- 7 inflation. As a result, the effective price changes on
- 8 cust -- on customers' use of electricity would have
- 9 been largely overwhelmed by the effect of other factors
- 10 that affect demand for electricity, such as population
- 11 increases, economic growth, improvements in residential
- 12 construction, appliance efficiency, and the underlying
- 13 random year-to-year variation in low -- in load.
- 14 I would agree with this in the past. I
- 15 would say -- state that this -- this is -- no longer
- 16 will be true when you start to see the expected rate
- 17 increases in the future. And so Manitoba Hydro will
- 18 not have low electricity prices forever and it will not
- 19 be the -- overwhelmed by the effect of those other
- 20 factors.
- 21 Slide 32, continuing on price
- 22 elasticity, page 19. In -- in 2012, the model
- 23 incorporating the price of gas price -- gas to price of
- 24 electricity ratio predicted a decline in the percentage
- 25 of new electric heat customers to the total number of

- 1 new customers, while the price of natural gas continued
- 2 to fall. However, the actual market penetration of
- 3 electric heat billed homes increased in 2011 and 2012.
- 4 This is a case where we really don't know enough about
- 5 the model that they were using to be able to say
- 6 whether or not their model was truly appropriate.
- 7 One (1) of the things that -- that we've
- 8 seen in looking at price elasticity is customer
- 9 behaviour doesn't always change the first year prices
- 10 change. So we've looked at lagged prices, so the
- 11 relationship between last year's prices and this year's
- 12 electricity consumption. Or -- or in this -- in this
- 13 case in terms of their choices for space heat or using
- 14 moving averages. And we don't know whether or not
- 15 those things were considered.
- 16 Slide 33, page 20. As well, price
- 17 increases on higher starting prices which results in a
- 18 greater absolute expense to a consumer may result in
- 19 higher price elasticity than in jurisdictions with low
- 20 and stable electricity prices. This is entirely
- 21 possible, but it could also result in a lower price
- 22 elasticity if the starting price is high enough.
- 23 The starting price -- if the price of
- 24 electri -- electricity is very high, you, to a great
- 25 degree, already squeezed out any behaviour changes or

- 1 anything that the customers can do to reduce their --
- 2 their consumption. And they're already using pretty
- 3 much just essential loads at that point, so you're not
- 4 going to see a lot of price elasticity for very high
- 5 prices.
- 6 For very low prices, I would expect a
- 7 similar result in that an increase in price if price is
- 8 very -- if electricity is very, very cheap is probably
- 9 not going to be enough to -- to change things. But as
- 10 we're expecting here, we're going to be transitioning
- 11 from a low price to a higher price. As you get into
- 12 those higher prices in the future, you're not going to
- 13 have -- you're going -- you're going to start to get to
- 14 the point where people are going to hit that trigger
- 15 and make those changes. And --
- 16 DR. HUGH GRANT: Can I interrupt for a
- 17 moment?
- DR. DOUGLAS GOTHAM: Yes.
- 19 DR. HUGH GRANT: I think we know that
- 20 price elasticity varies along a stable demand curve.
- 21 Would that be correct?
- DR. DOUGLAS GOTHAM: I'm sorry, could
- 23 you repeat that, please?
- 24 DR. HUGH GRANT: Price elasticity is
- 25 different along a stable demand curve. Depending where

- 1 you are on a demand curve, the price elasticity
- 2 differs.
- 3 Would that be correct?
- DR. DOUGLAS GOTHAM: Yes.
- 5 DR. HUGH GRANT: And so you're saying
- 6 now that at a high price, demand tends to be more
- 7 inelastic or elastic?
- 8 DR. DOUGLAS GOTHAM: At a very high
- 9 price, demand tends to be inelastic. At a very low
- 10 price, demand tends to be very inealstic. It's in
- 11 between where you start to see the elasticity.
- DR. HUGH GRANT: You must have a -- an
- 13 oddly shaped demand curve.
- 14 DR. DOUGLAS GOTHAM: You have to think
- 15 in terms of long-term elasticities as opposed to short-
- 16 term elasticities.
- DR. HUGH GRANT: I'm just asking along
- 18 a -- take a straight line, stable demand curve, point
- 19 in time, if you moved along it, the elasticity would
- 20 change, correct?
- 21 DR. DOUGLAS GOTHAM: That is -- yes.
- DR. HUGH GRANT: And as I move to a
- 23 higher price, the elasticity would get greater or
- 24 smaller?
- DR. DOUGLAS GOTHAM: I'm -- that's the

- 1 difference between a short-term elasticity and -- and a
- 2 long-term elasticity.
- 3 DR. HUGH GRANT: I'm just moving along
- 4 an existing demand curve.
- DR. DOUGLAS GOTHAM: And that's -- and
- 6 in the long term, the demand curve is not a stable one
- 7 (1) spot. It changes.
- B DR. HUGH GRANT: Okay. I -- I would
- 9 think your -- in your response to this, you should
- 10 think about a change in a dema -- the shift of a demand
- 11 curve moving along a demand curve.
- DR. DOUGLAS GOTHAM: Thank you, sir.
- 13 THE CHAIRPERSON: I'm trying to
- 14 reconcile the earlier long-term price elasticity of
- 15 point seven (.7) with the statement you just made about
- 16 a shift in elasticity as you get out to higher prices.
- 17 Do you have a -- like long term in --
- 18 long term when referring to point seven (.7) is what
- 19 time frame?
- 20 DR. DOUGLAS GOTHAM: For me, long-term
- 21 elasticity refers to a time frame that's long enough to
- 22 incorporate changes in -- not specifically to
- 23 behaviour, like, I'm going to adjust my thermostat, as
- 24 it is to changes in my purchase of -- of end-use -- or
- 25 electricity-using devices.

8414 So it's long enough that I capture the 1 decision to use a higher-efficiency water heater instead of a -- a standard-efficiency water heater, or 3 -- or the -- the change to increase the insulation level in my home due to higher prices. 6 And so for those types of things we're -- and what we focus is on is the years, the multiple years situation. A short-term elasticity is more of a behavioural change; turn -- turn my lights off, and --10 or -- or change my thermostat setting in -- in my home. And -- whereas long term captures more of the -- the 11 12 long term purchasing decisions that the person -- that 13 the customers make. 14 15 (BRIEF PAUSE) 16 17 DR. DOUGLAS GOTHAM: Moving to slide 18 34, in MH-87, slide 12, indicates that Manitoba Hydro 19 will consider incorporating price elasticity in the next forecast, and I applaud them for that. I think that's the right way to go. 21 22 Included in that slide were -- was an 23 estimated impact of 500 to 600 gigawatt hours that 24 represents an elasticity -- I -- I shouldn't say of less 25 than; I -- I apologize -- of zero point zero (0.0) --

- 1 negative point zero five (.05) to zero point (0.) --
- 2 negative zero point zero five six (0.056), which is on
- 3 the low end of what we have seen in other
- 4 jurisdictions.
- 5 And I understand that these numbers are
- 6 not being proposed by Manitoba -- Manitoba Hydro.
- 7 They're just being used essentially as an example. It
- 8 -- it -- I think it's worth noting that if the
- 9 elasticity is higher you're going to see a greater
- 10 reduction. For instance, using a price elasticity of
- 11 minus zero point four (0.4), which was the price
- 12 elasticity that the Brattle Group embedded in their
- 13 export price model, that would indicate a load
- 14 reduction of about 4,000 gigawatt hours rather than
- 15 five hundred (500) to six hundred (600).

16

17 (BRIEF PAUSE)

- 19 DR. WAYNE SIMPSON: Without getting
- 20 into an academic discussion, as much as we might want
- 21 to, I think -- Dr. Grant made a point about the -- the
- 22 elasticity along a linear demand curve, which does
- 23 change. It gets bigger as you move up the curve,
- 24 right.
- 25 But I think what Dr. Gotham is referring

- 1 to is making sense of actual estimates of elasticity
- 2 where probably a variety of functional forms have been
- 3 tested, and -- and the estimates have been produced,
- 4 and there's no presumption there that the -- that the
- 5 demand curve is -- is linear.
- But we're trying to make sense of
- 7 different estimates of elasticity for different
- 8 jurisdictions. I -- I don't know if there's a
- 9 literature that actually looks at the question of
- 10 whether the elasticity estimates are higher in the
- 11 intermediate range than they are at the top end and the
- 12 low end, but I think that was the nature of -- of his
- 13 comments. He wasn't postulating a linear demand curve,
- 14 or trying to work from that construct.
- DR. HUGH GRANT: I'm just going to make
- 16 a simpler point. In deriving a price elasticity, the
- 17 absolute price matters. So the absolute price in
- 18 Manitoba tends to be lower than the absolute price in
- 19 Minnesota, or somewhere else. And so if you had (sic)
- 20 a same percentage increase in the price in the two (2)
- 21 regimes, ceteris paribus, I have less substitution
- 22 possibilities.
- 23 You know, the low -- because electricity
- 24 is so cheap here, that the 1 percent increase isn't
- 25 probably going to induce me to undertake a lot of

- 1 substitution choices. Where in a place where
- 2 electricity is of higher price, then suddenly the --
- 3 there's a lot of other substitutes that become quite
- 4 viable, and so that you expect a greater price
- 5 elasticity in that situation.
- And, so I think -- I'm even going back
- 7 to slide 31. I think the point being made there, that
- 8 absolute price matters in terms of a price elasticity.
- 9 So taking -- yanking a price number out of another
- 10 jurisdiction and assuming it applies in Manitoba
- 11 probably would not be appropriate.
- 12 DR. WAYNE SIMPSON: Yes. But the what-
- 13 if scenario we're looking at is an 80 percent real
- 14 increase in electricity prices forecasted in the NFAT,
- 15 and they're, I think, choosing estimates that are
- 16 gleaned from jurisdictions with higher prices of
- 17 electricity would be appropriate. In other word -- and
- 18 in fact, ones from very low --
- DR. HUGH GRANT: Maybe --
- 20 DR. WAYNE SIMPSON: -- prices elsewhere
- 21 would probably not be -- it would be less appropriate.
- DR. HUGH GRANT: Maybe in twenty (20)
- 23 years.
- 24 DR. WAYNE SIMPSON: Well, we're looking
- 25 forward in -- in the load forecast, yes.

- DR. DOUGLAS GOTHAM: Moving on to slide
- 2 35. On page 25, Manitoba agrees that a perfectly
- 3 accurate forecast is unattainable, and as such,
- 4 presents a forecast created to be a midpoint of the
- 5 potential range of variability. The expectation is
- 6 that there will be a 50 percent chance that actual
- 7 growth will be higher than the forecast, and a 50
- 8 percent chance that it will be lower.
- 9 And I agree entirely with the statement,
- 10 that a perfectly accurate forecast is unattainable, and
- 11 I think it's entirely appropriate to try to produce a
- 12 forecast that has a 50 percent chance that growth will
- 13 be higher and 50 percent that it'll be lower, but it is
- 14 our opinion that they have failed to -- to produce such
- 15 a forecast here, specifically with respect to the price
- 16 elasticity.
- 17 In order for that statement to be true,
- 18 there would have to be an equal probability that the
- 19 price elasticity would be positive as there is that the
- 20 rest of the price elasticity would be negative. That
- 21 means that there's a equal chance that an increase in
- 22 price would result in more consumption as opposed to
- 23 less consumption in order for that to be a true 50/50
- 24 forecast without any price elasticity.
- DR. HUGH GRANT: Could I ask you if you

- 1 -- have you read Stevens and Simpson, the paper
- 2 presented two (2) days ago?
- DR. DOUGLAS GOTHAM: I have not.
- 4 DR. HUGH GRANT: I'm just going to
- 5 suggest, sorry to belabour this point, we only have
- 6 till 5:00, but in Model B of the evidence presented a
- 7 couple days ago, in -- in my calculation, using their
- 8 numbers, a 2 percent price increase amongst high-income
- 9 families leads to a 3.3 percent increase in total
- 10 electricity consumption, which would imply an upward
- 11 sloping demand curve and -- and -- so.
- 12 Mine might be wrong, but it -- it'd be
- 13 worth checking.
- 14 DR. WAYNE SIMPSON: I -- I have read
- 15 Stevens and Simpson, so I -- so I'd like to respond.
- 16 The -- the problem here is that that's not consumption.
- 17 That's percentage share of expenditure.
- 18 DR. HUGH GRANT: Over a fixed income?
- 19 DR. WAYNE SIMPSON: That's right. But
- 20 -- well, over an inco -- over an income range, because
- 21 the -- the hou -- household range, they have income
- 22 there is quite large, but --
- 23 DR. HUGH GRANT: But of average
- 24 consumers, or?
- DR. WAYNE SIMPSON: But that doesn't --

- 1 that -- that doesn't imply that the demand curve slopes
- 2 upward. That implies that if -- if the price goes up,
- 3 that the reduction in consumption is not enough to
- 4 offset the price increase so that your actual
- 5 expenditure goes up.
- 6 DR. HUGH GRANT: Okay. We'll -- we'll
- 7 discuss this at a later time.
- DR. WAYNE SIMPSON: Who's -- who's
- 9 buying the beer?
- 10 DR. DOUGLAS GOTHAM: So the -- the
- 11 summary for the load forecast discussion is that we
- 12 feel that Hydro's forecasting methodology lacks clarity
- 13 and consistency, which makes it difficult to evaluate.
- 14 We feel that Hydro relies on nonstandard methods for
- 15 some components, and overly simplistic assumptions for
- 16 others, for instance, that the number of customers per
- 17 household will not change through time, and the lack of
- 18 price elasticity introduces an upward bias in the
- 19 forecast.
- 20 MR. BYRON WILLIAMS: Dr. -- Dr. Gotham,
- 21 I -- I hope we've escaped without further questions on
- 22 price elasticity for the -- the moment. I -- I think
- 23 we can get you to turn to your discussion of export
- 24 revenues, although I'm not -- we're always happy to
- 25 answer questions from the panel.

- 1 DR. HUGH GRANT: I wonder if we could
- 2 just finish the discussion, at least the questions I
- 3 have.
- 4 MR. BYRON WILLIAMS: Please feel
- 5 welcome.
- DR. HUGH GRANT: Thank you, Mr.
- 7 Chairman. I -- I take, I think, the key points here,
- 8 and one (1) would be that it would have been useful to
- 9 run some different demographic and economic scenarios.
- 10 I'm -- I'm less convinced on -- it's unfortunate that
- 11 there weren't some better efforts to estimate price
- 12 elasticities and income elasticities in the model, but
- 13 I'm kind of inclined to accept the view that Hydro has,
- 14 that these are probably pretty inelastic in a lot of
- 15 ways, and we can debate that on and on.
- 16 But I think the main concern we had --
- 17 sorry, I had and I think some panel members had, and it
- 18 was in the Elenchus report as well as what Hydro had
- 19 done, is that this whole nature of forecasting and the
- 20 sort of conservative nature of econometrics, where
- 21 you're taking the experience of the recent past and
- 22 trying to forecast in the -- into the future.
- 23 And I'm just coming back to panel member
- 24 Kapitany's point is that what we've been facing, and
- 25 especially yesterday, was talk about game-changing

- 1 technologies. So how -- you know, and -- and we can't
- 2 treat these as complete uncertainties, but how in the
- 3 world are we supposed to -- to deal with these things
- 4 in terms of load forecast?
- 5 And so it seems like what you presented
- 6 to us is, Let's -- let's do a load forecast assuming
- 7 the world's not going to change, you know, the -- all
- 8 these relationships are going to be the same, and this
- 9 will be demand. And what's really facing the panel as
- 10 an issue is, What's the likelihood of this game-
- 11 changing technology coming along and throwing all this
- 12 stuff out the window?
- 13 And so the only thing -- I guess my
- 14 question, and I should probably pose it that way, is in
- 15 terms of forecasting and economic results.
- 16 One (1) thing that Mr. Dunsky did
- 17 yesterday was to take, for example, the rate of decline
- 18 in the price of solar technology, and just project
- 19 those forward, and assuming, then, that that rate of
- 20 invidid -- innovation's going to maintain itself, and
- 21 then using that as a way of forecasting, when, in fact,
- 22 off-grid type of technology might come in, and then the
- 23 idea that we should be building that sort of thing into
- 24 a load forecast.
- 25 Is that done in the kind of forecasting

- 1 models you've seen, and should it be, and can it be?
- 2 DR. DOUGLAS GOTHAM: I -- I would say
- 3 attempts have been made to do that, and I think it
- 4 should be. It's not easy, and it's -- it's easy to
- 5 either overcount or undercount when you come to the --
- 6 the impact of -- of the game -- game-changing
- 7 technologies that will -- may take -- take folks off
- 8 the grid, for instance, the -- the idea that -- that
- 9 customers will self-generate.
- 10 And it's a -- it's an issue that we face
- 11 in Indiana, because ten (10) years ago, we were in your
- 12 shoes. We had, in the early 2000s, the fourth or fifth
- 13 lowest electricity prices of any state in the -- in the
- 14 union, and we're now in the mid-twenties (20s), and we
- 15 are seeing customers, particularly some of our large
- 16 industrial customers, looking at the option of self-
- 17 generating rather than buying from their local utility.
- 18 And so how do you incorporate that into
- 19 a forecast? If you -- you're in the situation like we
- 20 are where we've actually seen some increase in self-
- 21 generation, an econometric model's going to capture
- 22 some of that -- that trend, but if you expect that to -
- 23 to accelerate going forward, it's -- it's not unless
- 24 you force it to.
- So it really comes to what adjustments

- 1 do you make, either to the model structure and the
- 2 model inputs, or even after the model has run, in order
- 3 to try to capture that stuff? And it -- and it
- 4 basically comes into trying to -- to put your thumb on
- 5 the mo -- on -- on the scales to the right level to
- 6 make that -- the forecast model come out in -- in the
- 7 direction that you feel is right.
- B DR. HUGH GRANT: Sir, my last point,
- 9 though, in the absence of doing some kind of projection
- 10 of -- of assuming that innovation will continue, at
- 11 least, so that prices of things like solar panels will
- 12 get cheaper and cheaper and cheaper and -- and off-grid
- 13 technology becomes more and more viable, in the absence
- 14 of doing that, then, you would agree that any load --
- 15 if you -- if you don't do that, your load forecast is
- 16 going to overestimate, systematically overestimate
- 17 demand.
- 18 DR. DOUGLAS GOTHAM: For -- for that
- 19 particular game-changing technology, yes. There are
- 20 potential game-changing technologies that would go in
- 21 the other direction, and I'm thinking in terms of, say,
- 22 plug-in vehicles.
- DR. HUGH GRANT: Right. Okay.
- 24 MR. DOUGLAS GOTHAM: You know?
- DR. HUGH GRANT: Good point. Thank

- 1 you.
- DR. WAYNE SIMPSON: Just -- just to
- 3 comment on that, the estimates of consumer response
- 4 here are all inelastic. That is, they're less than one
- 5 (1). So the question is, how inelastic is consumer
- 6 demand?
- 7 In the Hydro reports, the -- you know,
- 8 not very responsive is basically no response at all.
- 9 Point oh-five (.05) is basically zero. I think point
- 10 five (.5) is reasonable in the light of what we've
- 11 observed elsewhere.
- 12 It probably is fairly limited in terms
- 13 of its horizon, but it -- it's limited in the sense
- 14 that, if there are game-changing technologies, and
- 15 they'll be driven not only by the prices of those
- 16 technologies, but the price of the alternative, which
- 17 is electricity. Then that'll -- that'll -- response is
- 18 going to go up, and that's going to increase that
- 19 perceived elasticity, unless you incorporate the prices
- 20 of other energies, which, as I said, there's less
- 21 information on that. It's harder to predict, and
- 22 that's why I -- I didn't do it.
- 23 But I think -- I think, in fact, from
- 24 what you've said, I'm being conservative, looking
- 25 forward in the sense that these -- these switches would

- 1 make the consumer more responsive rather than less.
- 2 With the exception, as -- as Dr. Gotham said, that
- 3 there are some other things to consider, too, like
- 4 electric vehicles. We don't know much about that
- 5 technology and how much it's going to penetrate either.
- 6 DR. HUGH GRANT: My last point, just to
- 7 end on a point of -- and I assume you're speaking as
- 8 Gotham and Simpson now, and not Stevens and Simpson,
- 9 and I'll leave it at that?
- DR. WAYNE SIMPSON: Yes.
- MR. BYRON WILLIAMS: And Board member
- 12 Grant, I didn't mean to preempt your questions. I
- 13 apologize if I gave that impression, so.
- 14 Dr. Goth -- Mr. Chair, does the panel
- 15 need a -- a break, or can -- would you like us to
- 16 proceed?
- 17 THE CHAIRPERSON: I'm trying to canvass
- 18 the panel members as you were speaking. So I just want
- 19 -- probably a good idea to take --
- 20 MR. BYRON WILLIAMS: A five (5) minute
- 21 --
- 22 THE CHAIRPERSON: -- a very quick
- 23 break, because we have limited time today, but let's
- 24 take a quick -- we've been sitting for over an hour
- 25 now, so.

- 1 --- Upon recessing at 4:03 p.m.
- 2 --- Upon resuming at 4:15 p.m.

3

- 4 THE CHAIRPERSON: I apologize for the
- 5 delay. I just wanted to mention before we start the
- 6 proceedings that tomorrow morning, we're slated to
- 7 begin at that -- ten o'clock, and accessing the
- 8 building may be a bit of an issue because of enhanced
- 9 security during weekends, so it, like -- you will have
- 10 to go to the front door of the building and likely have
- 11 to sign in. So -- and then the -- the elevator might
- 12 be a bit iffy, but there will be a security guard on
- 13 the main floor, and that individual will be able to
- 14 assist you if the elevator is out of commission.
- But coming to this floor, somebody will
- 16 be here. So just bear with us, because it's unusual
- 17 for us to have proceedings on a Saturday, although it
- 18 may become a habit in the future. So -- so just bear
- 19 with us while we get through those logistical issues
- 20 tomorrow. So back to you, Mr. Williams.

- 22 CONTINUED BY MR. BYRON WILLIAMS:
- 23 MR. BYRON WILLIAMS: Yes. And -- and
- 24 thank you, and -- and, Dr. Gotham, before we turn to
- 25 export revenues, you've heard reference to the

- 1 discussion of Mr. -- Mr. Dunsky yesterday in terms of
- 2 grid parity and solar voltaic, and -- and other issues.
- 3 Can you characterize, based upon your
- 4 twenty-two (22) years of experience in this field, the
- 5 level of uncertainty you observe in -- in the
- 6 marketplace?
- 7 DR. DOUGLAS GOTHAM: Well, we see -- or
- 8 I guess I should speak for myself. I see a fairly high
- 9 degree of uncertainty. In -- in load forecasting,
- 10 there's always uncertainty, and there always has been,
- 11 but in the -- right now, it's -- it's probably higher
- 12 than it's been in the -- in the past.
- I -- I mentioned that one (1) of the
- 14 factors leading up to the formation of my group was the
- 15 -- the switch between that very high rate of growth we
- 16 saw back in the '60s of 6 to 8 percent, and going --
- 17 and then going, forward not seeing that growth rate.
- 18 What we saw in the mid '70s and early '80s was
- 19 essentially a paradigm shift in the relationship
- 20 between the -- the economy and -- and electricity use
- 21 in Indiana.
- We went from 6 to 8 percent per year to
- 23 two (2), two and a half (2 1/2), sometimes 3 percent a
- 24 year pretty consistently from the late '80s through the
- 25 mid 2000s. And the -- the drivers, to me, behind that,

- 1 were we were coming out of a period of -- of high
- 2 energy prices, with the oil embargos, the -- the energy
- 3 crisis of the '70s, followed by a significant
- 4 recession.
- 5 Right now, we are coming out of a period
- 6 of high energy prices followed by a very significant
- 7 recession, and I think we're -- we're in the middle of
- 8 that paradigm shift. So the next question is: Where
- 9 is the new normal? And we're getting to the point
- 10 where we're coming out of the recession. We may have
- 11 some -- a -- a better idea than we would have two (2)
- 12 years ago, but there's still significant uncertainty in
- 13 terms of what the new normal is for load growth and
- 14 that relationship between economic growth and load
- 15 growth.
- 16 MR. BYRON WILLIAMS: Thank you.
- 17 Perhaps we can turn to CAC Exhibit 66, please.
- DR. DOUGLAS GOTHAM: Okay. I'm going
- 19 to speak about my review of the export price forecast,
- 20 going to slide 2. Due to the -- to its competitively
- 21 sensitive nature there wasn't -- was -- was very little
- 22 information available in regard to the actual export
- 23 price forecast that -- that Hydro was using and the
- 24 assumptions behind the forecast.
- Thus, it was not possible for me to draw

- 1 definitive conclusions when I reviewed the -- the
- 2 export price forecast, so I focussed on aspects that
- 3 were available rather than crying about the stuff that
- 4 I didn't have. This is largely the supplemental
- 5 information that was included by Hydro in its NFAT
- 6 filing, as well as information that was provided
- 7 specifically regarding the Brattle Group export price
- 8 forecast. The other five (5) consultants that went
- 9 into the consensus forecast were not available.
- 10 Potential areas of concern that I saw in
- 11 the Hydro supplemental information was the issue of
- 12 whether or not transmission congestion was being
- 13 incorporated. Hydro is looking to sell into a -- a
- 14 region within MISO that has difficulty exporting power
- 15 to the rest of -- of MISO, because of -- of limitations
- 16 on the transmission system. So congestion occurs
- 17 between the Minnesota Hub area and the rest of MISO
- 18 that has -- can have a detrimental effect on the price
- 19 that they would be -- that Hydro would be receiving
- 20 when they sell power.
- 21 Another potential issue that I saw in
- 22 the supplemental information was the projected load
- 23 growth in the export region. And finally, the
- 24 inclusion of -- of carbon costs in the -- in the price
- 25 forecast.

- 1 Looking at transmission congestion, it
- 2 can be significant in that it shrinks the size of the
- 3 market essentially. If you can't get power out of the
- 4 Minnesota region, then the market largely, for the most
- 5 part, becomes just the Minnesota region, not all of
- 6 MISO.
- 7 It also reduces the price that Hydro
- 8 receives from the exported energy. There are a number
- 9 of public -- different public sources that indicate
- 10 that there is transmission congestion between the
- 11 Minnesota Hub and the rest of MISO. You see it if you
- 12 look at historical market prices. The -- the MISO
- 13 transmission planning process itself, what they refer
- 14 to as MTEP, is -- also indicates that there is
- 15 transmission congestion between Minnesota and the rest
- 16 of their system. MISO's independent market monitor's
- 17 state of the market report indicates that there is
- 18 congestion in that region, as well as the Federal
- 19 Energy Regulatory Commission.
- 20 One (1) of the things I did to look for
- 21 an additional indication of how often congestion is
- 22 affecting market prices was I looked at daily market
- 23 price indices published by Megawatt Daily that provide
- 24 prices for four (4) hubs in the MISO region: the
- 25 Minnesota, Michigan, Indiana, and Illinois hubs. And I

- 1 compared those individual daily hub -- hubs both for
- 2 on-peak and off-peak prices to see if there was a
- 3 substantial difference between the Minnesota Hub price
- 4 and the rest of the hubs. So if there is -- if the
- 5 Minnesota Hub price is below the -- the other two (2)
- 6 hubs, then there may be a -- a congestion issue.
- 7 That -- that could also be -- if the --
- 8 if the difference is small that could be explained
- 9 simply from transmission losses in trying to get power.
- 10 So there'll be a price difference there. And so I used
- 11 a threshold here of 10 percent. So anytime the one (1)
- 12 of the hub prices was either 10 percent higher than the
- 13 other three (3), or 10 percent lower than all the other
- 14 three (3), I flagged it.
- 15 And as this graph shows, for the -- the
- 16 time period analyzed here, April through December, over
- 17 35 percent of the time on the off-peak index, Minnesota
- 18 -- the Minnesota hub price was more than -- was at
- 19 least 10 percent less than any of the other three (3).
- 20 And that indicates to me that there is congestion
- 21 occurring at that because you wouldn't expect
- 22 transmission losses to create that big of a price
- 23 difference.
- Looking at load growth, in the
- 25 supporting information Hydro provided load growth

- 1 forecasts that I feel may be inappropriate for the
- 2 region that they're selling into. They provided a US
- 3 national load growth projection from EIA of 0.9
- 4 percent.
- 5 If you look at that -- the -- the
- 6 specifics of that projection, if you look at the east
- 7 north central region, which includes Wisconsin, and the
- 8 west north central region, which includes Minnesota,
- 9 those projections are much lower for those regions.
- 10 And a higher load growth projection will result in
- 11 higher export prices.
- 12 Looking at carbon costs, their
- 13 supplemental information includes cost associated with
- 14 restrictions on carbon dioxide emission. There is
- 15 considerable uncertainty as to if, when, and to what
- 16 degree some form of carbon restriction will be posed on
- 17 the Midwest. And if they don't materialize, export
- 18 prices and revenues will be significantly reduced.
- 19 Now, as I mentioned, I'm looking here
- 20 specifically at their supplemental information. I
- 21 don't know whether or not that informat -- that
- 22 information -- or that -- those assumptions or some
- 23 assumption similar to it was included in the export
- 24 price forecast, with the exception of the -- the
- 25 Brattle Group, where some of that information is

- 1 available.
- 2 So I -- I'm just pointing out that if
- 3 the -- if the supplemental information is indicative of
- 4 what went into the export price forecast, I think there
- 5 are problems. If it's not, then I don't -- I -- then I
- 6 don't know.
- 7 Referring to the uncertainty of carbon
- 8 costs, you've heard Potomac refer to two (2) reference
- 9 prices, one with and one without carbon costs. They
- 10 and MNP estimated the likelihood of carbon pricing to
- 11 be 50/50. The inclusion of these carbon costs in the
- 12 individual consultant forecasts are not available, so I
- 13 don't know what was -- what was in their -- their
- 14 forecast.
- 15 And I'm not necessarily saying that
- 16 carbon costs won't happen. I don't know if we'll have
- 17 carbon costs, but if we don't and we're counting on it,
- 18 we've got problems.
- 19 THE CHAIRPERSON: Just to make sure the
- 20 record is correct, I don't know that Potomac estimated
- 21 50/50 on carbon pricing. I think they accepted MNP's
- 22 forecast as being what they would use for their
- 23 calculation. So maybe you know otherwise, Mr.
- 24 Williams, but I just want to make sure that the record
- 25 is clear because I don't know that Potomac provided us

- 1 with a clear estimate.
- MR. BYRON WILLIAMS: Certainly, Mr.
- 3 Chair, we interpreted Potomac's evidence to say that
- 4 they had two (2) futures which they consider to have
- 5 equal likelihood, one (1) with a carbon future and one
- 6 (1) without a carbon future. But again, I -- I think
- 7 we'll -- we'll certainly take your guidance and go back
- 8 to the record.
- 9 THE CHAIRPERSON: Yeah, we'll have to
- 10 go back to the record. I think that my recollection is
- 11 they accepted MNP's, but --
- 12 DR. DOUGLAS GOTHAM: In -- in their --
- 13 THE CHAIRPERSON: -- disputed though,
- 14 but...
- 15 DR. DOUGLAS GOTHAM: In their -- their
- 16 report they actually had four (4) price trajectories:
- 17 two (2) with carbon, two (2) without. And they had a
- 18 20 percent likelihood on one (1) of the carbon futures,
- 19 a 30 percent likelihood on another one of the carbon
- 20 futures, and then a 20 and a 30 for the no carbon
- 21 futures.
- 22 So I think we can -- from the math
- 23 behind that --
- 24 THE CHAIRPERSON: That's agreed. We'll
- 25 go back to the record and clarify that point.

- DR. DOUGLAS GOTHAM: Thank you. In
- 2 terms of the likelihood of -- of carbon restrictions,
- 3 from my experience, I think that the likelihood of the
- 4 Midwest region imposing their own carbon restrictions
- 5 is very small. Much of the Midwest is -- relies on an
- 6 industrial-based economy that needs competitive
- 7 electricity prices in order to be economically
- 8 competitive. If we lose those prices, as, you know, I
- 9 -- I mentioned we're kind of in the middle of the pack
- 10 now, if we impose our -- in Indiana at least, if we
- 11 impose a -- a cost on top of that, we're going to put
- 12 ourselves in a -- a competitive disadvantage. Our
- 13 former governor put an op-ed in the -- the Wall Street
- 14 Journal to the -- that effect, stating that his -- his
- 15 opposition to -- to our carbon cap and trade.
- 16 THE CHAIRPERSON: Was he a Republican?
- 17 DR. DOUGLAS GOTHAM: Yes. In -- in the
- 18 interest of full disclosure, he is now my boss, because
- 19 he's the president of Purdue University, so.
- 20 MR. BYRON WILLIAMS: Doc -- Dr. Gotham,
- 21 you're not necessarily accepting his characterization.
- 22 You're -- you're portraying the political cri --
- 23 climate, I'll suggest to you.
- DR. DOUGLAS GOTHAM: Oh, yeah. I'm --
- 25 $\,$ I'm not -- I'm not trying to -- to say whether or not I

- 1 think there should be a carbon tax or cap in trade.
- 2 I'm just looking at the -- the -- what I see as
- 3 the -- the reality of the -- the opinions of -- in --
- 4 in the region.
- 5 So absent the Midwest taking it upon
- 6 themselves, what are -- what is the -- the factors
- 7 affecting whether or not the fed -- there will be
- 8 federal action? Which I think, if it's going to
- 9 happen, that's how it's going to happen.
- 10 As I'm sure you're -- you've been made
- 11 aware, the US Environmental Protection Agency is
- 12 expected to release proposed performance standards for
- 13 existing generation this summer. Those standards will
- 14 be an ini -- initially, they'll be the -- the proposed
- 15 standards. They'll go through a fairly lengthy comment
- 16 period, come up with finalized standards, which
- 17 probably won't happen until sometime next year, and
- 18 then that's when the court challenges will start to
- 19 take place, assuming Congress doesn't step in, in the
- 20 meantime and do something directly themselves.
- 21 They're currently -- there is little
- 22 indication that Congress will do something in the
- 23 current climate, the divided Congress we have doesn't
- 24 seem to be able to agree on much of anything, and
- 25 certainly not agreeing on -- in terms of doing

- 1 something in terms of a -- a climate legislation.
- 2 Furthermore, the Obama administration is
- 3 on the record as saying that they're not proposing a
- 4 carbon tax. I don't think until -- unless something
- 5 shakes out completely different, probably not until the
- 6 2016 election cycle, I don't think we're -- we're
- 7 likely to see much coming out of the -- the -- out --
- 8 out of Congress in terms of any type of Con -- climate
- 9 legislation.
- 10 So why are carbon costs important, and -
- 11 and I must apologize to Mr. Williams. This is slide
- 12 11. So looking at the Brattle Group's base in low CO2
- 13 cases, and their low CO2 case is actually a no CO2
- 14 case, inclusion of moderate CO2 costs will result in an
- 15 increase of thirteen (13) to fourteen (\$14) per
- 16 megawatt hour in the export price. From the opposite
- 17 perspective of what -- what happens if they don't
- 18 happen, the price of exports would be about twenty (20)
- 19 to 25 percent lower, and that's based on both the --
- 20 the Brattle Group's modelling, as well as the Potomac
- 21 modelling.
- 22 Furthermore, La Capra indicated that the
- 23 results of having no costs for carbon are significant
- 24 with the Preferred Development Plan benefits versus
- 25 all-gas, dropping by about \$340 million. So carbon

- 1 costs matter, and whether or not they happen will have
- 2 a big impact on what those export prices -- export
- 3 prices will be and the revenue that would be received
- 4 from them.
- 5 The next thing I did after looking
- 6 through those -- those three (3) issues for the
- 7 supplemental information was to do a comparison of the
- 8 export price forecasts that I had available to me. In
- 9 this case, I'm looking specifically at three (3)
- 10 different sources. The one labelled MTEP-12 is the --
- 11 is the Midcontinent ISO's transmission planning process
- 12 from 2012, in which they per -- they published hourly
- 13 price information at various locations within their
- 14 system for three (3) different: 2017, 2022, and 2027.
- I also looked at the Brattle report and
- 16 the Potomac report, essentially estimating these
- 17 numbers as best I could from the -- the graphs that
- 18 were in the report. I don't have the numbers behind
- 19 them, so.
- 20 And what I -- what -- the -- the first
- 21 one of these two (2) tables shows what they refer to as
- 22 their -- their base or reference or business-as-usual
- 23 case, but these -- these -- in some cases, these aren't
- 24 really directly comparable. For instance, the MTEP-12
- 25 does not have any carbon costs in their reference case.

8440 So the bottom one looks at something 1 that I feel is -- while it's not a perfect match, is a much more comparable set of -- of numbers, and you can 3 see that, in this case, the MTEP numbers and the Brattle Group numbers are very close together, and the Potomac numbers are slightly below that. 7 So this gives me at least some confidence that we're -- that the Brattle Group numbers are in the range of what we're seeing from other 10 sources. I should note that the -- the -- some of 11 12 the assumptions, in terms of things like load growth 13 for the MTEP analysis, was more robust than what was in the Brattle numbers, so that would create some 14 15 difference if they were on a truly equal basis, and 16 their pricing point was a little bit different, but I 17 don't think it's enough to be that -- that significant. 18 MR. BYRON WILLIAMS: Dr. Gotham, before 19 you leave this slide, just to make sure we -- when we're looking at the -- the -- what you would charac --21 appear to characterize as an apples-to-apples 22 comparison on the bottom, we're seeing basically the --23 the no-carbon or -- or low-carbon scenarios in -- in 24 all three (3) situations. 25 DR. DOUGLAS GOTHAM: That is -- that is

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1 correct, and -- and I'm not -- I didn't pick that in

2 order to somehow indicate that I think we should only

3 be looking at a no-carbon scenario. It's the one that

4 has the -- the most direct comparison between the three

5 (3).

6 The only -- of -- of the four (4)

7 scenarios that MISO included in the MTEP process, the

8 only one that includes carbon is kind of a kitchen sink

9 approach, where they throw in a bunch of other things

9 approach, where they throw in a bunch of other things

10 as well, and so it's not really a very comparable

11 numbers to use compared to the -- the Brattle or

12 Potomac numbers that do -- that also include carbon.

13 So I -- that -- the rea -- only reason for -- for

14 choosing that was because it was the most comparable

15 set.

So my, essentially, take-away from the

17 Brattle price forecast is I felt that the assumptions

18 in the Brattle forecast regarding congestion and load

19 growth in the export region are appropriate. I thought

20 they were -- that the congestion numbers they were

21 getting was -- it was similar to -- were similar to

22 what I was seeing in looking at the actual historical

23 market prices.

The load growth numbers that they

25 included in their model were similar to what EIA was

- 1 projecting at a regional basis rather than a national
- 2 basis. I'll note that the Brattle forecast does
- 3 include carbon costs that may or may not happen in the
- 4 future.
- 5 The Brattle forecast is consistently
- 6 above the Potomac forecast, but similar to the MISO
- 7 MTEP prices, especially when you consi -- compare
- 8 similar carbon assumptions.
- 9 So my take-away from that was that if
- 10 the Brattle forecast is actually representative of the
- 11 -- the consensus forecasts that -- that Hydro's using,
- 12 I feel that the forecast is in the range of reasonable.
- 13 If the foreca -- if the actual forecast is higher than
- 14 that, then there may be some cause for concern.
- MR. BYRON WILLIAMS: Just before you
- 16 leave this slide, any -- any comments -- do you have
- 17 any comments about the relative transparency of the
- 18 Potomac information available versus the Brattle
- 19 information?
- 20 DR. DOUGLAS GOTHAM: Sure. The -- the
- 21 Potomac information was, I felt, was -- was --
- 22 certainly was more transparent than the Brattle
- 23 information. I thought Brattle was fairly transparent
- 24 in terms of the -- kind of the exogenous assumptions
- 25 that went into their model, what they assumed for

- 1 carbon, what they assumed for load growth, what they
- 2 used for price elasticity, and so forth.
- 3 There is very little, if any,
- 4 information about the model itself that's used, whereas
- 5 Potomac was -- was more open, in terms of what the --
- 6 the model itself was, so -- as well as the -- the
- 7 assumptions that went into it, the exogenous
- 8 assumptions.
- 9 MR. BYRON WILLIAMS: Thank you.
- 10 DR. DOUGLAS GOTHAM: So the next
- 11 section is looking at the rebuttal to the evidence.
- 12 And -- and page 97 it is -- the rebuttal indicates that
- 13 both Potomac and Gotham reports contain several
- 14 mischaracterizations.
- 15 And in this case, I think it's another
- 16 situation where Hydro may be lumping my analysis in
- 17 with -- with the -- the analysis of the independent
- 18 expert consultant. I don't think there are as -- there
- 19 -- there's very little in the rebuttal regarding what I
- 20 would consider any mischaracterizations, and I will go
- 21 to the -- the two (2) issues that I've -- I've located
- 22 here in -- in the up coming slides. They -- they state
- 23 that:
- 24 "The Gotham Report appears to assume
- 25 that the indicative macro level US

	8444
1	electric load growth statistics
2	outlined in Chapter 3 of the NFAT
3	filing were provided by Manitoba
4	Hydro to each price forecast
5	consultant as a required input."
6	And that is false. The report clearly
7	states that. I won't bore you by reading the the
8	citation from the quote essentially, but what this says
9	is we I stated up front, I don't know what's in
10	their forecast. And, so I'm only looking at this to
11	get an indication is if this is indicative, here are
12	the things to be concerned about. I'm not under the
13	assumption that those were that they were directed
14	to to use these that information.
15	Another section where they had issue
16	with our report refers to the the in the section
17	entitled 'Carbon price'. Looking at the carbon price -
18	- and they made the claim that the carbon price
19	embedded within the export price forecast is
20	reasonable, and that may or may not be true, but I
21	cannot make a determination based on the rebuttal
22	because it's it's too heavily redacted. I can't
23	I don't know what's in there, so I can't I can't say
24	whether or not it it is reasonable or not.
25	On page 107, Hydro appears to take issue

- 1 with my use of such simple and subjective terms as
- 2 'significant' with regard to congestion. Yet, in their
- 3 own response to Information Requests, they use terms
- 4 such as 'minimal' and 'relatively minor' to indicate
- 5 the -- what -- the -- the impact of congestion. And I
- 6 don't really want to try to get into, I guess, a
- 7 semantic argument over whether it's significant or it's
- 8 minimal or relatively minor, but I don't believe that
- 9 the -- what we've seen has -- in his -- historically is
- 10 minimal or minor. And I certainly don't think that
- 11 what I've seen so far in 2014 is minimal or minor.
- 12 Looking at the -- the average weekly
- 13 price indices for those four (4) same hubs, this is
- 14 also from Megawatt Daily, for the year 2014, you've got
- 15 -- the first four (4) columns are the on-peak average
- 16 weekly indices, and you can see that Minnesota is the
- 17 lowest at fifty-one point seven seven dollars (\$51.77)
- 18 per megawatt hour, which is actually fairly high
- 19 compared to what we've seen, but we had a very extreme
- 20 winter that was -- put a lot of upward pressure on --
- 21 on prices in -- in MISO.
- 22 But to -- those numbers -- and this was
- 23 just on an average basis, are 12 to 27 percent lower
- 24 than -- on-peak than their counterparts. Off-peak it's
- 25 even more extreme. Minnesota being thirty-two dollars

- 1 and fifty-four (\$32.54) cents. That's 18 to 36 percent
- 2 lower off-peak than their counterparts.
- 3 And this is driven by the fact that you
- 4 can't get power out of Minnesota into those higher
- 5 priced regions when those -- when they're -- those
- 6 price differences occur. And so if you're in the --
- 7 the business of selling into the market, this was a
- 8 great winter to be in the business of selling into the
- 9 market, because the prices were high, but the folks
- 10 selling into Minnesota were not in a position to really
- 11 take advantage of those high prices, and so that --
- 12 this is the situation that -- that Hydro could see down
- 13 the -- down the road in those -- those periods when you
- 14 could really make some hay in the market. If
- 15 congestion stops that, you're not going to get the
- 16 revenue that you might otherwise.
- 17 Another recent development, and this was
- 18 just earlier this month, MISO released the results of
- 19 their 2014/2015 planning resource auction. So
- 20 essentially, in this case, utilities -- the -- the
- 21 utilities have a -- a planning resource requirement,
- 22 and they have to have a certain amount of -- of
- 23 resources available in -- in -- for the next year, and
- 24 a -- and then MISO takes bids and offers and determines
- 25 the -- the price at which those offers clear.

- 1 And the results show a much lower price
- 2 in zone 1, which is Minnesota, North Dakota, parts of -
- 3 or in western Wisconsin, than they do in zones 2
- 4 though 7, which is the rest of the MISO central and
- 5 north area, and there's a -- a exhibit here...
- 6 MR. BYRON WILLIAMS: Diana, if you
- 7 could pull up, please, CAC Exhibit 67?
- DR. DOUGLAS GOTHAM: And so this is --
- 9 this is from MISO's report on the planning resource
- 10 auction. I'll -- I'll draw your attention to the bul -
- 11 the second bullet that says the auction produced
- 12 three (3) clearing prices. Local resource zone 1
- 13 cleared at three dollars and twenty-nine cents (\$3.29)
- 14 per megawatt-day. So essentially, if you're selling 1
- 15 megawatt of capacity for every day, you get three
- 16 dollars and twenty-nine cents (\$3.29) if you're selling
- 17 into that -- into that zone, which is the North Dakota,
- 18 Minnesota, western Wisconsin zone.
- 19 Zones 2 through 7 cleared at roughly
- 20 five (5) times that level, sixteen dollars and seventy-
- 21 five cents (\$16.75) per megawatt-day. The -- and zones
- 22 2 through 7 are the rest of the MISO north and central
- 23 regions. Zones 8 -- 8 through 9 cleared at almost that
- 24 level. That's the MISO south region.
- 25 The other points to be taken from here

rest of them.

8448 is in that statement 1 on that second bullet, the reason why the -- the price was low in -- in local resource 1 was because of -- the capacity export limit 3 was binding. They couldn't get more capacity out of that region to sell into the other regions, so the price was depressed there relative to the rest of MISO. 7 MR. BYRON WILLIAMS: Dr. Gotham, I must -- I'm not seeing that reference. I wonder if you can 9 just... 10 DR. DOUGLAS GOTHAM: It --Okay. 11 bullet 2 says the auction produced three (3) clearing 12 prices: 13 "Number 1) Local resource 1 cleared 14 at three dollars and twenty-nine 15 cents (\$3.29) per megawatt-day as its 16 zonal capacity export limit bound." 17 MR. BYRON WILLIAMS: Thank you. 18 DR. DOUGLAS GOTHAM: And so if we page 19 down one (1) slide, they give the -- the resource -planning resource auction results, and you can see the 21 last row shows the auction clearing price of three dollars and twenty-nine cents (\$3.29) in zone 1. 22 23 find it particularly interesting that the row above 24 that shows the export limit from that zone into the

25

well.

8449 And you'll notice that one (1) of these 1 numbers is significantly smaller than the rest. The -the zonal -- the export limit from zone 1 is only 286 3 megawatts compared to all the rest of them being in the -- anywhere from one thousand three hundred and fifty 6 (1,350) up into the over four thousand (4,000) range. So this is a indication here that there 7 is -- there are issues with getting power out of Minnesota into the rest of -- of MISO. The -- there is a -- the -- the last slide, we don't need to go there, 10 but the last slide does have a -- a list of acronyms, 11 12 so if you try to -- want to try to make sense of all 13 the LCRs and FRAPs and stuff like that, you're --14 you're welcome to. 15 So if we could switch back to the presentation. Thank you. 16 17 MR. BYRON WILLIAMS: And we're on slide 18 20? 19 DR. DOUGLAS GOTHAM: Right. And we're switching to slide 21, reference to the -- the concept 21 of grid parity. You've heard discussion about grid 22 parity. Mr. Todd, from Elenchus, spoke about this, and 23 the concept of the domestic load forecast. But the 24 concept is also applicable to the export market, as

24

8450 If the -- the idea behind the grid 1 parity is that electricity prices increase and the cost of customer-owned generation decreases, it becomes 3 economically competitive. Any further increases in price to the customer will drive customers to generate them -- for themselves. 7 You could see that happening, not only in your domestic load forecast, but you could see that happening in the export region. And it act --10 essentially produces a cap on what the price in that region could be, because if the price goes above that, 11 people will generate for themselves. So it's -- it's 13 another level of uncertainty when it comes to that --14 that price forecast. 15 The level of the cap itself and when we 16 reach it really depends on the future cost of the various self-generation options. So if photovoltaics 17 18 become cheaper, as -- as some believe they will, you 19 would -- you would start to see that impact. You could also make the case for other technologies, fuel cells 21 and -- and things like that, which would allow 22 customers to generate for themselves. 23 In summary, the specific inputs and

25 feel there are some issues that -- that we need to be

results of the export price forecast are not public.

PUB re NFAT 04-25-2014 8451 aware of. The congestion issue may limit the amount of energy that can be moved through the Minnesota region, reducing prices. 3 The future load in the export region may be lower than indicated by the supplemental information. Now, I don't know whether or not that's reflected in the -- the actual export price forecast or not. 9 And then, finally, the existing timing 10 and magnitude of carbon costs represent a major source 11 of uncertainty. 12 MR. BYRON WILLIAMS: Mr. Chair, we're 13 ready to turn to another presentation. Just in terms of -- I'm assigning some homework to ourselves in terms 15 of the Potomac carbon quotes. We will look at -- it's

not an undertaking, but March 31st, 2014, at page

4,389, page 4,459, page 4,460, 4,573, and 4,574. 17

18 - I'm told by brilliant researchers in the room other

19 than me, are the ones where those discussions take

20 place.

21

22 (BRIEF PAUSE)

23

24 MR. BYRON WILLIAMS: We're -- we're at

25 the -- the guidance of the Board. I'll indicate that

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- 1 Mr. Harper estimates about an hour for his
- 2 presentation. I'm going to estimate about an hour and
- 3 fifteen (15) minutes, but in that range. So we'll --
- 4 we -- we are at the Board's -- whatever you -- you
- 5 direct us to do.
- THE CHAIRPERSON: Well, we are time
- 7 constrained today, so we would -- we would be
- 8 adjourning, as I said earlier, at five o'clock. So my
- 9 inclination is to continue, but I think it'd be wise to
- 10 recess -- adjourn for the day right now.
- 11 And -- and hopefully you'll have a good
- 12 evening, those of you who are going to be resting. And
- 13 we'll see each other again tomorrow morning at ten
- 14 o'clock.
- And a reminder -- I'm sorry, Mr.
- 16 Wojczynski -- Ms. Ramage, please?
- 17 MS. PATTI RAMAGE: Can we safely assume
- 18 then tomorrow begins at 10:00 and continues until we're
- 19 done? It'd be...
- 20 THE CHAIRPERSON: Until we drop, yes.
- 21 MS. PATTI RAMAGE: And Manitoba Hydro
- 22 has an exhibit that it can distribute. We can use the
- 23 last seven (7) minutes, if that's okay.
- THE CHAIRPERSON: Yeah.
- MS. PATTI RAMAGE: It's Manitoba Hydro

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8453
  Exhibit 104. So it's more of that 104 economics
 2 analysis. It's 14-2, supply and demand tables for Plan
   14 and Plan 17.
 3
 5
  --- EXHIBIT NO. MH-104: Supply and demand tables
                              for Plan 14 and Plan 17
 6
 7
                  MS. PATTI RAMAGE: And we will -- Plan
   17, which -- the LCA hypothetical No New Generation
10
  Plan.
11
                  THE CHAIRPERSON: Thank you. With
12 that, I think we're done. So we'll see each other at
13 ten o'clock tomorrow morning.
14
15
                        (PANEL RETIRES)
16
17 --- Upon adjourning at 4:53 p.m.
18
19
20 Certified correct,
21
22
23 Cheryl Lavigne, Ms.
24
25
```

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