

## 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

March 26, 2014

Pages 3812 to 4093



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3819 --- Upon resuming at 9:01 a.m. 2 3 THE CHAIRPERSON: Good morning. It's nine o'clock. I think we're prepared to continue, or at least we are ready to continue. Mr. Bedford, do you have any documents that you wish to acknowledge? 7 MR. DOUGLAS BEDFORD: Not documents, but you will remember that Mr. Wojczynski was asked to report first thing this morning on the status of some material that was to be filed, and he will do that 10 11 forthwith. And as soon as he's done, Dr. Shaffer undertook to look into a couple of matters, and he has 13 the responses to those undertakings. 14 15 MANITOBA HYDRO PANEL 6 CONTINUED: 16 KAREN ANDERSON, Previously Sworn 17 TED BLAND, Previously Sworn 18 NORMAN BRANDSON, Previously Sworn 19 JANE KIDD-HANTSCHER, Previously Affirmed 20 SHAWNA PACHAL, Previously Affirmed 21 IAN PAGE, Previously Sworn 22 MARV SHAFFER, Previously Sworn 23 VICTOR SPENCE, Previously Sworn 24 ED WOJCZYNSKI, Previously Sworn 25

- 1 MR. ED WOJCZYNSKI: I have three (3)
- 2 items. First of all, I was asked as to when the
- 3 financials will be coming. Our schedule had said that
- 4 the first financials would be available on the 24th,
- 5 and they didn't -- and they were not available. I
- 6 phoned -- talked last night to Ms. Carriere and Mr.
- 7 Rainkie this morning, and their plan and intention is
- 8 to have all of the financials this Friday.
- 9 There is a risk they will have to be
- 10 redone again. What's happened should explain why they
- 11 were not available on the 24th, is they had done the
- 12 runs and there were some problems with them, and they
- 13 had to redo -- they're in the middle of redoing them.
- 14 As Ms. Carriere had testified and Ms.
- 15 Flynn had testified, in the process when we do either
- 16 the economic or the financial runs, part of it
- 17 obviously is we do a run; we check it and make sure
- 18 everything looks good. And with some frequency we
- 19 have -- in the checking we find there's something that
- 20 isn't right, and we have to redo them. And that's
- 21 what happened this time.
- 22 And so they apologize for that. And --
- 23 and Mr. Rainkie indicated he can give an explanation
- 24 of that when he's on the stand on the 4th. But they
- 25 will have -- their --their plan is to have all of them

- 1 this Friday, but there is -- there is a risk they'll
- 2 have to redo them over the weekend. But they -- they
- 3 don't think that'll happen.
- 4 Secondly, I was asked about whether or
- 5 not -- I think it was under advisement, whether we
- 6 could provide the -- the impact of the -- on Keeyask
- 7 of our partner income arrangements if they chose,
- 8 instead of doing the preferred, to do the common.
- 9 There was an IR that in -- in the
- 10 process that did indicate the impact on Manitoba
- 11 Hydro's net income statement of going with a 17 1/2
- 12 percent common arrangement, but that did not include
- 13 payments to -- that did not include the calculation or
- 14 the payments to the -- the First Nations. It in -- it
- 15 was the impact on net income.
- 16 So I -- I guess I might need some
- 17 clarity here. Was it the impact on the net income, or
- 18 was it the -- the dividends the KCN would be
- 19 receiving? I think you're probably looking for the
- 20 dividends to the KCN.
- MR. SVEN HOMBACH: That's correct, Mr.
- 22 Wojczynski. When I was asking you yesterday, I was
- 23 looking at the dividends to pay to the KCN from the
- 24 perspective of benefits to th KCN, yeah.
- MR. ED WOJCZYNSKI: And, so we can

- 1 provide that, or -- or -- probably I should back up a
- 2 little bit. We can calculate that, and provide that.
- 3 That was -- that is not automatically done when you do
- 4 the net income. You don't have to do that.
- 5 But that was not done. The last time
- 6 we have done the calculation of the dividends was at
- 7 the -- during the ratification process with the First
- 8 Nations.
- 9 So Liz Carriere -- Ms. Carriere and her
- 10 staff will do -- can do that. It's not CSI. But they
- 11 are doing all these financials first, so it's -- you
- 12 know, it's the same group of people. So what we'll do
- 13 is put it in the queue. And the priorities, as we
- 14 understand them right now, is finish those financial
- 15 evaluations.
- 16 Well, like you said, Mr. Chair, I
- 17 should maybe seek confirmation from the panel of this
- 18 that we're at your guidance. We understand the
- 19 priorities for the financial people right now is to
- 20 finish those -- the runs, what we call the updated DSM
- 21 runs. That is the different levels of DSM and the
- 22 different plans. And that's what we already talked
- 23 about, that they're targeting to have them all done
- 24 for Friday. That's, right now, their number 1
- 25 priority.

- 1 Their second priority was the request
- 2 from the panel last week, Friday I believe it was,
- 3 that -- Thursday, that -- what is the impact of a
- 4 higher Keeyask and Conawapa capital cost? That's the
- 5 second priority.
- 6 And the third priority right now would
- 7 be doing this dividend calculation. Does that seem
- 8 like the appropriate priority?
- 9 THE CHAIRPERSON: Yes, it would be.
- 10 MR. ED WOJCZYNSKI: So that -- that is
- 11 what we will do, and I'll relay that on to them. The
- 12 last item I have is panel member Kapitany had asked
- 13 about the operating jobs on Keeyask and the Keeyask
- 14 turbines. And so what we've done is calculate what
- 15 they are on an equivalent basis. And by that, what I
- 16 mean is Keeyask has 3,003 dependable gigawatt hours
- 17 associated with it.
- So to put things on the same basis,
- 19 we've calculated what the employment number would be
- 20 for direct jobs on each of the resources. And Keeyask
- 21 is thirty-eight (38) jobs. Conawapa would be twenty-
- 22 seven (27). A simple-cycle gas turbine is thirty-
- 23 eight (38) jobs, which is identical to Keeyask. And
- 24 combined-cycle gas turbine is forty-seven (47) jobs.
- 25 So I believe that fulfills your -- your

- 1 request.
- MS. MARILYN KAPITANY: You had
- 3 mentioned wind as well?
- 4 MR. ED WOJCZYNSKI: We have that as
- 5 well, yes. We have a range for the wind. It would
- 6 range from fifty-eight (58) to one hundred and fifteen
- 7 (115), yeah. Okay, thank you. That completes my
- 8 responses this morning.
- 9 DR. MARVIN SHAFFER: There were two
- 10 (2) matters that I said I would follow up with and
- 11 check overnight. The first concerns the share of the
- 12 Manitoban employment with the Northern projects that
- 13 would be filled by Northern Aboriginal workers.
- 14 And you may recall -- and this came up
- 15 on -- it was on page 180 of the Board counsel
- 16 documents, line 19. I was the one who raised the
- 17 concern about the 50 percent number because at the
- 18 very same time I was looking at a revised response to
- 19 PUB/MH I-245, where I had a share of 37.5 percent,
- 20 Northern Aboriginals' share of Manitoba wages.
- 21 Those two (2) numbers are in fact
- 22 consistent. And it was my mistake, just looking at it
- 23 quickly, in that the 50 percent number that's on page
- 24 180 of the Board counsel documents, line 19, refers to
- 25 the share of person years of employment that were

- 1 assumed to be filled by Northern Aboriginal workers,
- 2 whereas the 37.5 percent in Table 2 of the
- 3 interrogatory response refers to the share of wages,
- 4 the difference being an assumption about the average
- 5 wage of the mix of occupations filled by Aboriginal
- 6 workers versus the overall project.
- 7 In both cases, and it was consistent in
- 8 -- all along, the -- the net effect of what share of
- 9 the wages we assumed constituted net benefits for the
- 10 Northern constructions was in the order of 12 to 12.5
- 11 percent. And that's why I was satisfied it was
- 12 consistent. And I double checked, and it is
- 13 consistent. So that was the first matter.
- 14 The second matter is actually just a
- 15 page -- or two (2) pages back, page 178, Table 13.5.
- 16 And Board counsel was asking questions about, Well,
- 17 why was there a disproportionate increase, as I forget
- 18 the -- the -- there was a few questions about this
- 19 table, but wanted to understand what was responsible
- 20 for the -- the changes.
- 21 And there were a number of changes and
- 22 they arose because information became available
- 23 subsequent to the completion of this report. And some
- 24 of the major ones were: with respect to operations
- 25 and maintenance in northern Manitoba there was a

- 1 significant reduction you can see in Table 13.5, and
- 2 that was due to revised estimates of the incremental
- 3 O&M in northern Manitoba, associated with the Conawapa
- 4 project. I'm talking about the person years now.
- 5 Also, there was a significant increase
- 6 in southern Manitoba construction; that was due to --
- 7 for -- for a couple of reasons. The original
- 8 estimates didn't include transmission PYs and we put
- 9 those in, that's part of it. And the other, a big
- 10 part, from the shift from northern to southern
- 11 Manitoba was a re-allocation of person years of
- 12 employment associated with the Northern projects that
- 13 were really headquarter employment; in other words,
- 14 they would take place in southern Manitoba.
- 15 And those are the -- the main reasons
- 16 for the changes that you asked about yesterday. I
- 17 hope that clarifies it.
- 18 MR. SVEN HOMBACH: It does. Thank
- 19 you. Anything else?
- 20 MR. DOUGLAS BEDFORD: Ms. Pachal has
- 21 one (1) clarification from her testimony yesterday.
- MS. SHAWNA PACHAL: Yesterday Ed and I
- 23 talked about when the Cree make their decision about
- 24 investing either preferred or common and we talked
- 25 about final closing. And when we checked our notes

- 1 last night, it's actually a hundred and eighty (180)
- 2 days after final closing. So six (6) months after
- 3 final closing. And final closing is after the last
- 4 turbine is commissioned at the generating station.
- 5 So the Cree do not have to make their
- 6 investment decision whether they're going preferred or
- 7 common until they know what all the costs are
- 8 associated with the construction of the project. And
- 9 they'll also know at that point in -- at that point in
- 10 time what the market is doing. So just a
- 11 clarification on that about when their decision needs
- 12 to be made.
- MR. SVEN HOMBACH: Thank you. Does
- 14 that conclude the matters Manitoba Hydro has to speak
- 15 of?
- 16 THE CHAIRPERSON: I have a question, I
- 17 quess, just a minor question. Although, I was
- 18 thinking last night if I was in the shoes of a -- of a
- 19 Cree, I would probably want to have the -- the ability
- 20 to convert those preferred to common. But I quess --
- 21 is that -- is that something that's in -- I --
- 22 something that's in the contract with the -- or the
- 23 arrangement with the -- the partners?

24

25 (BRIEF PAUSE)

- 1 MS. SHAWNA PACHAL: We believe that --
- 2 well, subject to check, we believe they can convert at
- 3 the twenty-five (25) year point and again at the fifty
- 4 (50) year point, or... We -- but we'd have to check
- 5 that, but there is an opt -- option to convert at
- 6 twenty-five (25) years.
- 7 MR. SVEN HOMBACH: Okay. Mr.
- 8 Chairman, I -- I have some cross-examination left
- 9 remaining this morning. I anticipate it will be
- 10 approximately until the coffee break. After that it
- 11 will be MIPUG's turn to cross-examine followed by CAC.
- 12
- 13 CONTINUED CROSS-EXAMINATION BY MR. SVEN HOMBACH:
- 14 MR. SVEN HOMBACH: Good morning,
- 15 everyone. Yesterday we were discussing the benefits
- 16 to northern Aboriginal groups of the projects and I
- 17 took the Manitoba Hydro panel through some of those
- 18 benefits. And we haven't yet had an opportunity to
- 19 discuss the training initiative that you mentioned,
- 20 Ms. Pachal. And I'd like to turn your attention to
- 21 page 99 of Board counsel's book of documents.
- That's an excerpt from the Joint
- 23 Keeyask Development Agreement, more specifically, it's
- 24 Article 12. And if you scroll down to the middle of
- 25 the page, Section 12.1.3, that sets out the funds for

- 1 the training initiative.
- 2 And, Ms. Pachal, can you please confirm
- 3 that that is the total sum that you're talking about
- 4 when you're referring to the northern Aboriginal
- 5 training as part of the Keeyask project?
- 6 MS. SHAWNA PACHAL: That's correct.
- 7 MR. SVEN HOMBACH: So that's
- 8 approximately 45 million in total?
- 9 MS. SHAWNA PACHAL: Sixty (60)
- 10 million.
- 11 MR. SVEN HOMBACH: How much of the
- 12 money set out in this section has actually been
- 13 expended to date?
- 14 MS. SHAWNA PACHAL: About 99 percent
- 15 of it.
- 16 MR. SVEN HOMBACH: So it follows,
- 17 then, that the training initiative is more or less
- 18 complete at this point, or are you upping the budget?
- 19 MS. SHAWNA PACHAL: No, it is
- 20 complete.
- MR. SVEN HOMBACH: How many people
- 22 have gone through the training?
- 23
- 24 (BRIEF PAUSE)
- 25

- 1 MS. SHAWNA PACHAL: There was two
- 2 thousand six hundred and seventy (2,670) participants,
- 3 one thousand (1,000) -- so individuals who are
- 4 involved in the initiative. There was one thousand
- 5 eight hundred and seventy-six (1,876) who successfully
- 6 completed one (1) course, and there were three
- 7 thousand eight hundred and three (3,803) courses
- 8 successfully completed.
- 9 MR. SVEN HOMBACH: And can you
- 10 describe to the panel at a high level what types of
- 11 jobs you were actually training for? And if that is
- 12 too much for the time that's left remaining, I'd be
- 13 prepared to accept an undertaking that provides a
- 14 breakdown in table format.
- MS. SHAWNA PACHAL: Well, it -- it --
- 16 we were training for -- well, first of all, it's
- 17 really important to understand that the training
- 18 initiative was designed, developed, and implemented by
- 19 the Cree Nation, so they made the choices in terms of
- 20 what areas they wanted to train for, and a lot of
- 21 their initial training was associated with life skills
- 22 training and upgrading to get individuals in their
- 23 community to a level where they could actually be
- 24 studying in a particular area that was a skilled
- 25 trade, or a non-designated trade, or a support trade.

- 1 And so, based on the -- what the
- 2 communities chose to do, they trained in all different
- 3 areas, but you have the advantage of my Cree partners
- 4 sitting behind me, and they ran the training
- 5 initiative in their communities, so they'd probably be
- 6 in the best position to tell you what they trained
- 7 for.
- 8 MR. SVEN HOMBACH: If you'd like to
- 9 defer to them, I'd certainly like to hear it.

10

11 (BRIEF PAUSE)

- MS. KAREN ANDERSON: Good morning. My
- 14 name is Karen Anderson, Fox Lake Cree Nation. So in
- 15 our community, the majority of the training that we
- 16 provided to our members were life skills and
- 17 upgrading, and then we went on to the heavy equipment
- 18 operator training. We've had carpenters, completed
- 19 some of them not -- not fully to Level 4, but there's
- 20 been, I think, at least four (4).
- We had some of our members training in
- 22 computer technology. We've had members in the food
- 23 service industry. I'm not sure quite the name of the
- 24 courses right here, but those are the major ones that
- 25 we had done. We had the -- a wide variety of

- 1 different courses that our members took.
- MS. MARILYN KAPITANY: Mr. Hombach,
- 3 could I just ask a follow-up question?
- 4 MR. SVEN HOMBACH: Of course.
- 5 MS. MARILYN KAPITANY: Is there a
- 6 sense of the number of people who were trained for the
- 7 Wuskwatim project? How many still remain in the
- 8 communities, have built on their skills, and then will
- 9 be in a position if Keeyask goes forward to -- to be
- 10 part of the construction of Keeyask?
- 11 MS. SHAWNA PACHAL: Just give us a
- 12 minute to check that, and we'll get back to you on
- 13 that.
- 14 MS. KAREN ANDERSON: Okay. So for Fox
- 15 Lake, most of the trainees that were in the food
- 16 service industry, like the food -- levels going
- 17 towards the -- I just can't remember the name of it,
- 18 I'm sorry, but it's in the food service industry
- 19 because of our DNC with -- with the catering contract.
- 20 So that's where we had a majority of our members,
- 21 catering -- or training, and they've worked at
- 22 Wuskwatim and some have left that -- that job
- 23 category, and -- and then they've taken other courses
- 24 also, but currently, we do have people working at
- 25 Keeyask who have completed those courses. Thank you.

- 1 MS. JANE KIDD-HANTSCHER: Maybe if I
- 2 can just further add to that question. So we do know
- 3 from the reporting that a hundred and eighty-nine
- 4 (189) trainees under the Hydro Northern Training and
- 5 Employment Initiative found work at Wuskwatim,
- 6 specifically, and then in terms of NCN individuals, we
- 7 also track how many people from Nelson House are
- 8 working at -- on the Keeyask infrastructure project,
- 9 and until the end of February 2014, there are -- are
- 10 twenty-one (21) members from Nelson House working.
- So the hundred and eighty-nine (189)
- 12 that worked at Wuskwatim, though, would be
- 13 representative of all participants in the program,
- 14 certainly not just Nelson House residents, just for
- 15 clarification.
- 16 MR. TED BLAND: Ted Bland, York
- 17 Factory. I'd just like to add to Karen Anderson's
- 18 comments there. York Factory also ran similar --
- 19 similar programs as -- as Fox Lake, because Fox Lake
- 20 is our joint venture partner in the -- the catering
- 21 and security portion of the contracts for DNCs.
- We, too, ran catering and security
- 23 training in our community. We did run construction
- 24 programs, as well. We did a little bit of upgrading,
- 25 heavy equipment, carpentry training. We also included

- 1 a program through, I guess, the workforce that -- that
- 2 people are already in -- in Keeyask, and that's the --
- 3 the Red Seal Program where we have our membership
- 4 training to become red sealed chefs.
- 5 We don't have the numbers available on
- 6 hand, but that is something that we can access if we
- 7 were to get a little bit of time.
- 8 MR. SVEN HOMBACH: It would be helpful
- 9 to obtain just a table with the numbers.
- 10 MS. SHAWNA PACHAL: I will provide
- 11 them to you now.
- MR. TED BLAND: Okay. Thank you.
- 13 MS. SHAWNA PACHAL: Of the two
- 14 thousand six hundred and seventy (2,670) participants
- 15 in the HNTEI initiative, five hundred and ninety-five
- 16 (595) completed some training in job catery --
- 17 categories required for Keeyask project construction,
- 18 designated trades, apprentices, non-designated trades,
- 19 and construction support.
- 20 The remainder of the two thousand six
- 21 hundred and seventy (2,670) participants also
- 22 undertook educational upgrading, two hundred and nine
- 23 (209) of them, life skills, three hundred and thirty-
- 24 eight (338), short programs, two hundred and fifty-
- 25 four (254), professional and administrative courses,

- 1 one hundred and sixty (160), designated pre-employment
- 2 training, three hundred and twenty (320) were working
- 3 towards becoming apprentices, and some did not
- 4 complete courses, seven hundred and fifty-five (755)
- 5 who started and didn't complete.
- 6 Some of these trainees, even though
- 7 they didn't complete, may be eligible for non-
- 8 construction related positions on the projects. In
- 9 terms of the HNTEI funds of -- of the \$60 million, 40
- 10 percent of the dollars were spent in community
- 11 infrastructure, which included administration, 17
- 12 percent, recruitment program development and
- 13 retention, 16 percent, capital, 7 percent. Capital
- 14 would be things like buying computers and setting up
- 15 training facilities and such.
- 16 Classroom and on-the-job training was
- 17 60 percent of the dollars. Of that 60 percent, 19
- 18 percent was funded -- was spent funding towards
- 19 designated trades training, 4 percent towards
- 20 construction support, 15 percent towards non-
- 21 designated training, professional and administrative
- 22 was 9 percent, and 13 percent was spent on upgrading.
- 23 MR. SVEN HOMBACH: Thank you, Ms.
- 24 Pachal. Would you be in a position to file that
- 25 information that you just read into the record by way

3836 . of an undertaking as a table?

- MS. SHAWNA PACHAL: I certainly can.
- 3 The undertaking is to file the information on the
- 4 statistics associated with the HNTEI initiative and
- 5 the table that I just read. HNTEI, H-N-E-T-I (sic),
- $6 \quad H-N-T-E-I$ .

7

- 8 --- UNDERTAKING NO. 63: Manitoba Hydro to file the
- 9 information on the
- 10 statistics associated with
- 11 the HNTEI initiative as a
- 12 table

- 14 CONTINUED BY MR. SVEN HOMBACH:
- MR. SVEN HOMBACH: Now, would any
- 16 other of the KCNs like to speak to the training
- 17 initiative?
- 18 MR. VICTOR SPENCE: Hello. Victor
- 19 Spence, TCN. I'm representing the CNP partnership,
- 20 Tataskweyak and War Lake First Nation. In regard to
- 21 jobs and tra -- training, I'm not directly involved in
- 22 that process. We have a team that -- that is -- works
- 23 on behalf of TCN.
- However, I can honestly say that, you
- 25 know, there are challenges in deal -- in dealing with

Tataskweyak and War Lake.

3837 the process, but we -- it has worked and we pro -- had training in carpentry, heavy equipment operators, and mills trade, I believe that's what it's called, and 3 ironworkers. So there are a number of trainings that were undertaken by the staff on behalf of the nation, and regrettably, I don't have the numbers in front of me, but I can provide the numbers as -- as an 7 undertaking. 9 MR. SVEN HOMBACH: Thank you. that would be helpful to the Board, and I assume that 10 would be filed through Manitoba Hydro's counsel, an 11 12 undertaking to provide the numbers of people -- to 13 provide a breakdown of the number of people that have 14 undergone the Tataskweyak training initiative. 15 --- UNDERTAKING NO. 64: Provide a breakdown of the 16 17 number of people that have 18 undergone the Tataskweyak 19 and War Lake training 20 initiative 21 22 MR. SVEN HOMBACH: Did I phrase that 23 correctly, sir? 24 MR. DOUGLAS BEDFORD: It would be

- 1 MR. SVEN HOMBACH: And War Lake.
- MR. VICTOR SPENCE: That's correct.
- 3 MS. SHAWNA PACHAL: I'd also like to
- 4 follow up on Ms. Kapitany's question about employment,
- 5 so a little bit more extensive information which I
- 6 will add to the undertaking that we provide with the
- 7 other -- how the funds were spent.
- 8 Of -- of the individuals who went
- 9 through the program, one thousand three hundred and
- 10 ninety-five (1,395) individuals obtained post-training
- 11 employment. We had a target in that initiative of
- 12 seven hundred and ninety-four (794), and we exceeded
- 13 it, because we achieved one thousand three hundred and
- 14 ninety-five (1,395).
- 15 Sixty percent of the individuals worked
- 16 on initiatives and at jobs in their communities. That
- 17 was eleven hundred and seven (1,107) of them. Sixteen
- 18 percent of them worked with non-community northern
- 19 employers. Thirteen (13) percent of them worked at
- 20 Hydro between Wuskwatim, the Keeya -- on Keeyask and
- 21 the Keeyask Infrastructure Program, and Manitoba Hydro
- 22 operations, and 11 percent of them worked with other
- 23 employers in the province and out of the province.

24

25 CONTINUED BY MR. SVEN HOMBACH:

3839 1 MR. SVEN HOMBACH: And, Ms. Pachal, let's go to page 105 of the Board counsel book of documents. That's a table that shows the breakdown of 3 Aboriginal hires for the Keeyask Project, correct? 5 MS. SHAWNA PACHAL: MR. SVEN HOMBACH: Can you give the 6 Board an idea as to the percentage of people that have undergone the Keeyask training initiative that have actually been hired to work on the Keeyask Project? 10 MS. SHAWNA PACHAL: I don't have that 11 number at my fingers. So you're saying, How many of 12 these individuals that are listed in this chart are trainees from the HNTEI initiative? 13 14 MR. SVEN HOMBACH: Yes, and even on an 15 approximate percentage basis. 16 17 (BRIEF PAUSE) 18 19 MS. ALICE PAYNE: Well, we'll check to see if -- I'm not sure if that number's available. 21 We'll check to see if we can get it. 22 MR. SVEN HOMBACH: Thank you. You'll 23 advise by way of undertaking? 24 MS. SHAWNA PACHAL: Yeah. So I'll 25 undertake to determine whether or not in -- on your

3840 page 105, the -- the Table 1 that identifies the hires from the Keeyask Project to date, how many of those individuals were HNTEI trainees. 3 4 MR. SVEN HOMBACH: Thank you. 5 6 --- UNDERTAKING NO. 65: How many hires for the 7 Keeyask Project to date in Table 1 on page 105 were 9 HNTEI trainees 10 11 CONTINUED BY MR. SVEN HOMBACH: MR. SVEN HOMBACH: The last issue I'd 12 13 like to explore with respect for the training 14 initiative is the long-term prospects, and perhaps 15 let's go to page 175 of the Board counsel book of 16 documents for a moment. That's Figure 13.5 from the 17 NFAT that shows the annual construction employment. 18 And what we established is that there's 19 going to be a fairly large construction employment spike for a number of years, and then it will level 21 off significantly, and I'd like to get a better 22 understanding as to what the concerns are with respect 23 to long-term prospects from the training initiatives 24 once those construction jobs are disappearing. 25 Do you expect a significant number of

- 1 people from the communities to have to seek employment
- 2 in southern Manitoba or outside the province? How is
- 3 that addressed?
- 4 MS. SHAWNA PACHAL: Well, I think the
- 5 communities have selected the types of training and
- 6 direct negotiated contracts that would associate to
- 7 skills that are transferrable off the construction
- 8 projects into their communities, so, you know, like
- 9 heavy equipment operator training and those kinds of
- 10 training, carpentry and -- and so forth, because those
- 11 are transferable skills into their community and into
- 12 other industries in the north. And, as well, in
- 13 security or -- yeah, security and catering and those
- 14 types of initiatives that would potentially provide
- 15 them with opportunities in some of those areas in the
- 16 north as well.
- So that would be -- they've -- they've
- 18 looked -- that -- that's obviously one (1) of the
- 19 things that's the most important to consider is -- is
- 20 the transferability. So there's no point in training
- 21 somebody to, you know, do something that's only a
- 22 specialized trade that would only last for a few
- 23 months on the Keeyask project, and then they would
- 24 have to move out of province to utilize that skill.
- 25 So the communities have -- have looked at training in

- 1 the areas where there would most transferable skills
- 2 after the projects.
- 3 MR. SVEN HOMBACH: For Conawapa, no
- 4 similar training initiative has been set up yet,
- 5 correct?
- 6 MS. SHAWNA PACHAL: It's just being
- 7 discussed. And we've also just undertaken -- the
- 8 province and us have just started to roll out
- 9 something called the "Northern Construction Trades
- 10 Training Program," which is a pilot project to look at
- 11 individ -- taking individuals, apprentices, and
- 12 working with the Manitoba -- the Northern Manitoba
- 13 Sector Trades Council, and guaranteeing those indivi -
- 14 one (1) of the challenges with the training is for
- 15 the apprentices to get their hours and finding them
- 16 the hours that they need in order to get to their next
- 17 level.
- 18 So the pilot project -- the Northern
- 19 Construction Trades Training Pilot Project, the
- 20 objective of that is to quarantee the individuals that
- 21 we bring into this program, and I think we're starting
- 22 with twenty (20) or thirty (30). I can't remember the
- 23 exact number. But the idea is, is that we have worked
- 24 with the Northern Manitoba Sector Trades Council who
- 25 is connected with other industries in the north, with

- 1 mining and forestry and so forth.
- 2 And so the individuals we bring into
- 3 that program, between Hydro and the other industries,
- 4 will make sure that those individuals can find
- 5 employment to get the hours that they need. And so
- 6 that's -- it's a real challenge on Hydro projects to
- 7 get apprentices their hours because, as you've seen
- 8 from all these charts, when you need them on the
- 9 projects is very spiky. It goes up and down, and you
- 10 need carpenters and then you don't, and so on and so
- 11 forth.
- 12 So it's hard on the Hydro projects to
- 13 get them all the hours they need through all their
- 14 levels. So we're partnering with these -- with the
- 15 Northern Manitoba Sector Council and these other
- 16 industries and the province to -- to try and focus
- 17 more concentrated, ensuring that they can get their
- 18 hours. And then -- and -- and then we are starting to
- 19 think through, working with our partners, starting to
- 20 think through what should we do in terms of Conawapa
- 21 training.
- 22 And we're also anticipating -- I mean,
- 23 there's on-the-job training on Keeyask. They'll -- I
- 24 talked about that yesterday in my presentation. And
- 25 we anticipate they'll -- they'll be a number of on-

- 1 the-job training opportunities and apprentices getting
- 2 their training if Keeyask is -- is -- gets underway.
- 3 A number of them will be training on Keeyask towards
- 4 Conawapa as well.
- 5 MS. JANE KIDD-HANTSCHER: If I could
- 6 just add a couple of other additional points as a
- 7 person who worked on the Wuskwatim project very
- 8 closely. If you look at this chart that's up in front
- 9 of you, although it starts with the sequence of the
- 10 Preferred Development Plan, if you go back to 2006
- 11 when we started building Wuskwatim you have,
- 12 essentially, twenty (20) plus years of people that
- 13 could be working in a particular occupation.
- 14 And we are seeing that in follow-up to
- 15 the question from Board member Kapitany, that
- 16 individuals who worked on Wuskwatim, say from the
- 17 outset, developed a skill or have got an
- 18 apprenticeship, have now moved on to the Keeyask
- 19 project. And, additionally, could finish working
- 20 there and -- and move on to another project after
- 21 that. So it's a long time span. You look at it,
- 22 essentially, as you -- you could build, essentially, a
- 23 career.
- The other piece that's important is
- 25 although as we have talked about there aren't near the

- 1 number of jobs on the projects once they're
- 2 operational, there are opportunities. And we have
- 3 seen, with the conclusion of the Wuskwatim
- 4 construction project, individuals who built those
- 5 skill sets continuing to work either at the site for
- 6 Manitoba Hydro in our positions, or under additional
- 7 contracts that we have with the community in the areas
- 8 of the skills that they built while they worked on the
- 9 project.
- 10 So there's a couple of -- you know,
- 11 there's a couple of important points to add in terms
- 12 of the longevity that is possible when people get
- 13 these -- these training under their belt.
- 14 MR. ED WOJCZYNSKI: Perhaps I could
- 15 add something that brings together part of what I said
- 16 yesterday on this issue, is we were talking about the
- 17 definition of the Preferred Development Plan, the
- 18 timing of Conawapa. I recall saying that -- that we
- 19 had not indicated that 2026 was a likely date and that
- 20 it could be a few years after that.
- I would suggest that one (1) of the
- 22 considerations that we would have about the timing of
- 23 Conawapa is that if it was slightly later by
- 24 "slightly" I mean, one (1), or two (2), or three (3)
- 25 years, not ten (10) years that it would mean a bit

- 1 more evening out of the demand on labour and -- which
- 2 would perhaps reduce some of the cost pressures. But
- 3 also that it would mean that the demand would be less
- 4 peaky. And -- and you would see that big peak and
- 5 small peak more evened out so that you had them
- 6 separated in time, but more -- more balanced.
- 7 So that is one (1) of the things that
- 8 would be a consideration for Manitoba Hydro in
- 9 addition to all the other things we've talked about.
- 10 And so -- so some of the concerns, and downsides, and
- 11 -- and risks that -- and uncertainties associated with
- 12 building Conawapa for 2026, if we did push it back a
- 13 few years, some of those would reduce and have these
- 14 other kinds of benefits.
- 15 And -- and I -- that is something that
- 16 is on our mind when we talk about -- about having the
- 17 flexibility to move Conawapa back somewhat.
- 18 MR. SVEN HOMBACH: Now, in terms of
- 19 direct distributions to the partners, nothing has been
- 20 agreed to with respect to Conawapa yet.
- 21 Did I hear Manitoba Hydro correctly
- 22 that for Conawapa it might not follow equity
- 23 participation stake, or is a similar model being
- 24 contemplated for Conawapa?
- 25 MS. SHAWNA PACHAL: For income?

- 1 MR. SVEN HOMBACH: Yes, for -- for
- 2 direct partnership income, the -- the income sharing.
- 3 MS. SHAWNA PACHAL: There is going to
- 4 be some sort of income sharing; the exact model of
- 5 what that looks like is still under discussion with
- 6 our partners.
- 7 MR. SVEN HOMBACH: And is it likely
- 8 going to be an ownership stake similar to the -- the
- 9 common shares?
- 10 MS. SHAWNA PACHAL: I can't speak to
- 11 that yet, because we're in negotiations and
- 12 discussions with our partners.
- 13 THE CHAIRPERSON: I don't want to
- 14 belabour this point, but in a discussion yest --
- 15 yesterday with Dr. Shaffer, I wondered about this
- 16 graph, because Ms. Pachal yesterday told -- told us
- 17 that there would be about twenty-two hundred (2,200)
- 18 jobs at the peak of Conawapa. And this is not coming
- 19 out in the graph here.
- 20 Conawapa is show -- you know, even
- 21 though that Conawapa is going to be built, it's
- 22 actually showing decline in employment. So there's --
- 23 there's something that's wrong with the graph. Either
- 24 one (1) piece of information or --
- MS. SHAWNA PACHAL: They're two (2)

3848 different scales. One -- twenty-two hundred (2,200) is the number of human beings, like the people. And this is person years. So they're different 3 calculations. That's why it doesn't add up. 5 6 (BRIEF PAUSE) 7 CONTINUED BY MR. SVEN HOMBACH: 9 MR. SVEN HOMBACH: Is it possible for 10 Manitoba Hydro to reconcile between those two (2) and 11 just provide a comparison table, if data presumably is 12 available? 13 14 (BRIEF PAUSE) 15 16 MS. SHAWNA PACHAL: Yeah, I think it would be pretty hard to reconcile those two (2) 17 18 things. They're two (2) totally different measures. 19 They're completely different things. 20 THE CHAIRPERSON: It's needed. 21 MS. SHAWNA PACHAL: Thank you. 22 23 (BRIEF PAUSE) 24 CONTINUED BY MR. SVEN HOMBACH: 25

3849 MR. SVEN HOMBACH: Thank you. 1 Movina on then from the issue of Aboriginal and northern First Nations' benefits, yesterday I believe Mr. 3 Wojczynski was on the record indicating that the net present value calculation for water rentals and capital tax that was provided in Chapter 13 is only with water rentals and capital tax revenue that's covered by export. Is that correct? 9 MR. ED WOJCZYNSKI: I would include a debt guarantee fee in that, as well. And that's over 10 the life of the project. When -- when they did the 11 NPVs of -- in the economic analysis, they're all over 13 the life of the project. And, so when -- when -- if 14 you look at the All Gas Plan --15 MR. SVEN HOMBACH: Maybe you can 16 actually illustrate this, Mr. Wojczynski. If we go to page 169 of the book of documents, the bottom of the 17 18 page, Table 13.3. 19 Does this -- does this table include only revenues that are recovered from exports, or is 21 it on a gross basis? 22 23 (BRIEF PAUSE) 24

MR. ED WOJCZYNSKI:

They are gross in

- 1 each case.
- 2 MR. SVEN HOMBACH: So this includes
- 3 money to be recovered from Manitoba ratepayers?
- 4 MR. ED WOJCZYNSKI: Yes. But can I
- 5 take the explanation further or --
- 6 MR. SVEN HOMBACH: Please.
- 7 MR. ED WOJCZYNSKI: -- were you going
- 8 to follow up?
- 9 MR. SVEN HOMBACH: I -- I was going to
- 10 follow up and refer you to the next chart which deals
- 11 with net benefits, but perhaps you can explain the
- 12 matter further, Mr. Wojczynski.
- MR. ED WOJCZYNSKI: Yes. If you use
- 14 the chart -- Table 13.3, which has the -- the gross
- 15 amounts for each of the plans, what you would need to
- 16 do is to look incrementally the differences. So when
- 17 we did the NPVs in the charts that I presented, and
- 18 Ms. Flynn presented that showed the -- the NPV of the
- 19 transfers to the province, those were the difference
- 20 between the All Gas Plan and the Preferred Plan, or
- 21 the Keeyask/Gas Plan.
- 22 So the -- the amount of capital tax,
- 23 water rentals, and debt guarantee fee that's in the
- 24 All Gas was subtracted from the Preferred Development
- 25 Plan, and then we only showed the difference. And --

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- 1 and the reason we say that that amount over the life
- 2 of the project comes from the exports is that when you
- 3 do the NPV of the total expenditures and the total
- 4 benefits, and compare them to the All Gas we end up
- 5 getting a positive numbers.
- 6 So -- so that would suggest that the --
- 7 that the increase in costs by going to the Preferred
- 8 Plan is more than covered by the increase in revenues.
- 9 So the increase in costs include both the capital cost
- 10 and capital tax, water rental, and debt guarantee fee.
- 11 So the increase in debt guarantee fee,
- 12 water rental, and capital tax, plus the capital costs
- 13 are more than covered by the increase in export
- 14 revenues. And that's why we say they come over the
- 15 life of the project from -- from the exports.
- 16 MR. SVEN HOMBACH: So just because I'm
- 17 still somewhat unclear on this issue, the numbers that
- 18 we're looking at, those are -- that's the NPV of the
- 19 total capital tax and water rental revenue over the
- 20 seventy-eight (78) year analytical time frame?
- 21 MR. ED WOJCZYNSKI: This table was
- 22 actually prepared in Chapter 13 by Dr. Shaffer, so I'm
- 23 not -- I understand it's gross but I'm not sure over
- 24 what time period. We would have to look to Dr.
- 25 Shaffer to answer that.

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1 DR. MARVIN SHAFFER: The -- the water

- 2 rentals are the present value the -- that resource
- 3 planning estimated, and -- when they did their
- 4 analysis of the plans over the -- the period ending --
- 5 over the planning period through to 2047.
- 6 And the capital tax was over the -- the
- 7 same period, and it was estimated as -- by the
- 8 financial planning team because it's a more
- 9 complicated calculation, but it was over that same
- 10 period.
- 11 MR. SVEN HOMBACH: Thank you.
- 12 THE CHAIRPERSON: Dr. Shaffer, is
- 13 there a reason that the sales taxes that would be
- 14 generated by the projects are not included in net
- 15 present value calculations?
- 16 DR. MARVIN SHAFFER: So these charges
- 17 and taxes are those that are paid by Manitoba Hydro
- 18 either, you know, as part of its annual operating
- 19 expenditures or, in the case of the debt guarantee
- 20 fee, as part of its obligations because of the -- the
- 21 debt guaranteed by government, similar with the
- 22 sinking fund.
- 23 Sales taxes and income taxes, for
- 24 example, on employment, it -- it relates to the
- 25 discussion we had yesterday. And -- and the question

- 1 is those -- those are taxes associated with levels of
- 2 activity in the province. And let's just first deal
- 3 with the sales taxes paid by people in -- within
- 4 Manitoba, in other words, who -- who aren't in-
- 5 migrants.
- 6 The question becomes: Would they not
- 7 have been spending money if they hadn't been working
- 8 on the -- the project? Would they not -- if -- if
- 9 we're talking about those sales taxes associated with
- 10 spending by workers.
- 11 So the assumption was that there aren't
- 12 necessarily incremental sales taxes. We didn't have
- 13 estimates of the sales taxes paid by Manitoba Hydro on
- 14 its purchases, if that's what you're asking. And
- 15 that's why those aren't included.
- 16 But it really relates to what your view
- 17 is of the incremental economic activity in the
- 18 province, is it changing where people are working or
- 19 is it changing the amount of work taking place by
- 20 Manitobans.
- 21 As far as the in-migrants go, as I said
- 22 yesterday, if they're paying taxes, either sales taxes
- 23 on their purchases of goods and services or income
- 24 taxes, to some extent, to the Manitoba Government, the
- 25 assumption that we made, again a conservative one, is

3854 that's offset by increased government expenditures associated with a larger population. 3 (BRIEF PAUSE) 5 CONTINUED BY MR. SVEN HOMBACH: MR. SVEN HOMBACH: Dr. Shaffer, are 7 you in a position to have Manitoba Hydro file the detailed schedule supporting this table? Presumably, in arriving at these numbers you used an Excel 10 11 spreadsheet. 12 DR. MARVIN SHAFFER: You -- you're 13 asking for the annual cashflows? 14 MR. SVEN HOMBACH: Yes, I'm -- I'm 15 looking for the schedule supporting the numbers set out in Table 13.3 of Manitoba Hydro's business case. 17 DR. MARVIN SHAFFER: What -- what I --18 I can provide, and I assume this is what you mean, is 19 -- is the annual capital tax, water rental, debt quarantee fee, et cetera, over the planning period --21 MR. SVEN HOMBACH: Yes. 22 DR. MARVIN SHAFFER: -- that led to 23 these present value calculations. 24 MR. SVEN HOMBACH: Yes. Thank you. 25 I can certainly DR. MARVIN SHAFFER:

3855 provide that. 2 3 --- UNDERTAKING NO. 66: Dr. Shaffer to provide the annual capital tax, water 5 rental, debt quarantee fee, 6 et cetera over the planning period that led to those present value calculations 9 10 CONTINUED BY MR. SVEN HOMBACH: 11 MR. SVEN HOMBACH: I'd like to take 12 Manitoba Hydro back to a slide presented by Mr. 13 Wojczynski yesterday. And, Mr. Wojczynski, it's page 4 of your presentation. Unfortunately, I don't have 14 15 the page number for the overall PDF. It is 16 the...okay. That's the chart that includes the 17 return-on-equity metric that I understand was 18 determined based on the difference between the net 19 present value at 5.4 percent and to 4.65 percent. 20 I would like an undertaking from 21 Manitoba Hydro to file the detailed supporting 22 schedules for this in a similar format to what was 23 filed in response to -- or in a similar format to what 24 was filed in Manitoba Hydro Exhibit -- I believe it 25 was 104.4.

3856 MR. ED WOJCZYNSKI: Yeah, we can do 1 that. It might be helpful -- I believe it was -there is an overhead in Manitoba Exhibit 95 which actually shows the calculation, not for all three (3) of these, but for one (1) of them, as -- if -- if that would be helpful. But we can do the undertaking and -- and show it later. 7 9 (BRIEF PAUSE) 10 11 MR. SVEN HOMBACH: I would still like the -- the undertaking, Mr. Wojczynski. But if you'd 13 like to go to that slide for a minute, that might be 14 helpful to the Board. 15 MR. ED WOJCZYNSKI: We just have to 16 get the undertaking. It's from another panel, so I... 17 18 (BRIEF PAUSE) 19 20 MR. SVEN HOMBACH: It is an 21 undertaking to file the detailed supporting schedule 22 for the revised calculations shown on page 4 of Mr. Wojczynski's Power Point presentation of March 25th, 24 2014. 25 MR. ED WOJCZYNSKI: Yes.

	3857
1	UNDERTAKING NO. 67: Manitoba Hydro to file the
2	detailed supporting
3	schedule for the revised
4	calculations shown on page
5	4 of Mr. Wojczynski's Power
6	Point presentation of March
7	25th, 2014
8	
9	MR. ED WOJCZYNSKI: And Exhibit 95,
10	page 131. We provided this as for the earlier
11	presentation, and what it contains well, let's just
12	go to Level 2 DSM 'cause is the normal standard
13	WACC test says you take your weighted average cost to
14	capital, which in we're now using 5.4 percent, and
15	you and we compare let's just use
16	Keeyask/Conawapa right now.
17	You take the cash flows for that, you
18	compare it to the cash flows of the All Gas sequence,
19	and you get an NPV based on 5.4 percent. And as long
20	as you get a zero or more, you've pass well, as
21	long as you get a dollar (\$1) or more you've passed
22	the WACC test which means you have enough return to
23	the equity that is inside your WACC that that this
24	is beneficial.
25	The equity that is in the WACC is that

- 1 we have a 75:25 debt-equity ratio, and in the 25
- 2 percent of the -- of the equity portion, we have a 3
- 3 percent premium over the borrowing cost, over the debt
- 4 cost. So there -- when you calculate a 5.4 percent
- 5 you are getting that return to that amount of equity.
- 6 If -- if you subtract out, or take out
- 7 that portion of equity you come back to the Manitoba
- 8 Hydro's borrowing cost which is 4.65 percent. So this
- 9 table shows that for the -- let's say the
- 10 Keeyask/Conawapa Plan, that we had an NPV of 5.4
- 11 percent equal to 45 million. If you recalculate that
- 12 at only the debt cost, you get one billion three
- 13 hundred and sixty-four million (1,364,000,000).
- 14 And the difference between those two
- 15 (2) is the amount of return -- you get a net return to
- 16 the equity that's embedded in the WACC, and -- and, so
- 17 you subtract those two (2) numbers and you get the
- 18 number on the right-hand side, which is one billion
- 19 three hundred and nineteen million (1,319,000,000),
- 20 that is that embedded return on equity.
- 21 And we did exactly that same
- 22 calculation for the table that I was just asked to pro
- 23 -- do an undertaking on. And -- and we will provide
- 24 that table as an undertaking.

- 1 CONTINUED BY MR. SVEN HOMBACH:
- 2 MR. SVEN HOMBACH: Thank you. One (1)
- 3 last series of questions to Dr. Shaffer before I move
- 4 on to the macro environmental issues.
- 5 Dr. Shaffer, you used a discount rate
- 6 of 6 percent for purposes of Chapter 13, correct?
- 7 DR. MARVIN SHAFFER: That's correct.
- 8 MR. SVEN HOMBACH: And that was based
- 9 on what is called the social opportunity cost of
- 10 capital?
- DR. MARVIN SHAFFER: The weighted
- 12 average social opportunity cost to capital --
- MR. SVEN HOMBACH: Okay.
- DR. MARVIN SHAFFER: -- that's
- 15 correct.
- 16 MR. SVEN HOMBACH: Have a look,
- 17 please, at Board counsel's book of document page 130.
- 18 That's the tornado diagram. It's Figure 10.1 from
- 19 Manitoba Hydro's business case that shows the
- 20 sensitivities for the overall business case.
- 21 And the real discount rate for Manitoba
- 22 Hydro's overall NPV analysis is the single biggest
- 23 factor, correct?
- DR. MARVIN SHAFFER: Yes.
- MR. SVEN HOMBACH: Does that also hold

- 1 true for the socioeconomic analysis conducted by you?
- DR. MARVIN SHAFFER: As comparing
- 3 particularly a thermal, a All Gas Plan with a Hydro
- 4 Plan, the discount rate would be very important,
- 5 that's correct.
- 6 MR. SVEN HOMBACH: And it's fair to
- 7 say there have been different papers and different
- 8 opinions as to what a proper discount rate is for this
- 9 type of analysis?
- DR. MARVIN SHAFFER: Yes.
- 11 MR. SVEN HOMBACH: And in the table
- 12 supporting your presentation, are you in a position to
- 13 change the discount rate to show what the different
- 14 outcomes would be?
- 15 DR. MARVIN SHAFFER: I -- I haven't
- 16 done that calculation.
- MR. SVEN HOMBACH: But it's something
- 18 you're in a position to do based on the math that you
- 19 --
- 20 DR. MARVIN SHAFFER: I could. There'd
- 21 be some effort involved, but -- because there's a lot
- 22 of calculations that go into it. It's not just one
- 23 (1) spreadsheet with all the accounts and all the
- 24 numbers. But it's certainly possible.

major bearing on this.

3861 1 (BRIEF PAUSE) 2 3 DR. MARVIN SHAFFER: I -- I can tell you directionally what -- what it'll do. 5 MR. SVEN HOMBACH: Yes, please. 6 DR. MARVIN SHAFFER: As you lower the discount rate the effect of that is -- is to give greater weight to future consequences. And that would mean you would give greater weight to the ongoing costs associated with the -- the Gas Plans. 10 going to make a capital intensive alternative like the 11 12 Hydro projects much more favourable. 13 And so the lower the discount rate, the 14 greater would be the advantage of the Preferred 15 Development Plan, certainly over the All Gas Plan, and 16 to a lesser extent the other plans as well. 17 MR. SVEN HOMBACH: And it follows that 18 if you up the discount rate to, let's say, 8 percent 19 that would tend to favour the All Gas Plan? 20 DR. MARVIN SHAFFER: That's correct, 21 because as you increase the discount rate you'll be 22 giving less weight to the future consequences. And 23 when you're dealing with assets, Hydro assets lasting, 24 you know, up to a hundred years, obviously that has a

- 1 MR. SVEN HOMBACH: Let's turn then to
- 2 the subject of macro-environmental issues. Now,
- 3 Manitoba Hydro followed a VEC approach, a valuable
- 4 ecosystem components, correct?
- 5 MS. SHAWNA PACHAL: For our Keeyask
- 6 assessment we did, and that's generally the approach
- 7 we take for environmental assessments.
- 8 MR. SVEN HOMBACH: And you -- and
- 9 you're in the early stages for the Conawapa assessment
- 10 to date.
- Is that fair to say?
- 12 MS. SHAWNA PACHAL: That's correct.
- 13 That's correct.
- 14 MR. SVEN HOMBACH: Now, the VEC
- 15 process, is that -- did you take that from the
- 16 valuable ecosystem component approach that's set out
- 17 under CEA, the Canadian Environmental Assessment Act?
- MS. SHAWNA PACHAL: Yes, we did.
- 19 MR. SVEN HOMBACH: And the Keeyask
- 20 environmental review has been completed to date, but
- 21 the Clean Environment Commission has not issued its
- 22 report yet, correct?
- 23 MS. SHAWNA PACHAL: That's correct.
- MR. SVEN HOMBACH: And can you
- 25 indicate when that is anticipated?

- 1 MS. SHAWNA PACHAL: The Monday after
- 2 Easter Sunday, whichever that is. Because I remember
- 3 putting it in my calendar. So whatever the --
- 4 whatever somebody -- could somebody help me looking at
- 5 a calendar? The Monday after Easter Sunday.
- 6 MR. SVEN HOMBACH: It's Easter Monday,
- 7 a day that we're currently trying to keep free for the
- 8 panel, so I -- it's in all our minds, Ms. Pachal.
- 9 MS. SHAWNA PACHAL: Oh, well, it's not
- 10 a holiday for Hydro, so it's -- I think it's April
- 11 21st. Does that sound right? Okay. April 21st.
- 12 MR. SVEN HOMBACH: And to date
- 13 Conawapa has not been sent to the Clean Environment
- 14 Commission? There's no direction from the province as
- 15 of yet, correct?
- MS. SHAWNA PACHAL: That's correct.
- 17 MR. SVEN HOMBACH: And appreciating
- 18 that this panel is being asked to just look at the
- 19 macro-environmental issues, Manitoba Hydro filed a
- 20 matrix of the environmental effects in response to
- 21 CAC/Manitoba Hydro Information Request 1-231a?
- MR. ED WOJCZYNSKI: Yes.
- 23 MR. SVEN HOMBACH: And you indicate in
- 24 that response to Information Request that Manitoba
- 25 Hydro looked at thirty-eight (38) valuable ecosystem

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- 1 components; not all of those are addressed in -- in
- 2 its filing in the NFAT.
- 3 Can you give the panel an understanding
- 4 on how you selected the VECs to address in this
- 5 process?
- 6 MR. ED WOJCZYNSKI: We use judgment
- 7 related to what are the more prominent issues that
- 8 needed to be addressed. That was in part developed,
- 9 or in response to -- we had, I believe, it was a pre-
- 10 hearing conference that discussed the definition of
- 11 macro-environmental and socioeconomic. And then,
- 12 pursuant to that, we met offline with the Consumers
- 13 Association and -- and agreed what would be reasonable
- 14 for this process.
- And -- and what we -- I -- I -- counsel
- 16 and myself participated with Consumers Association and
- 17 -- and I think it's -- I -- I think I'm being fair to
- 18 say we agreed that looking at every single possible
- 19 environmental or socioeconomic issue would not be
- 20 helpful for this exercise and -- and certainly was not
- 21 in keeping with the terms of reference, in that we
- 22 should pick ones that would be the more -- I'm using
- 23 the word 'prominent'. You can say more important, but
- 24 the -- so that's what we did do. And we used our
- 25 judgment as to what that should be.

3865 MR. SVEN HOMBACH: And on the federal 1 level Keeyask is undergoing a federal environmental assessment as well? 3 MS. SHAWNA PACHAL: That's correct. 4 5 MR. SVEN HOMBACH: And that's 6 following the comprehensive study approach, correct? 7 MS. SHAWNA PACHAL: That's correct. MR. SVEN HOMBACH: Which is the most stringent or the highest level of assessment that exists at the federal level? 10 11 12 (BRIEF PAUSE) 13 14 MS. SHAWNA PACHAL: So the highest 15 level -- under -- Keeyask was filed under the old federal legislation. There's new legislation now, but 16 so a CSR wouldn't be the highest level. It would be a 17 18 federal panel, and it -- and there's a Cooperation 19 Agreement. Well, it's now expired between Canada and Manitoba, but Manitoba has had the hearing, and the 21 feds are doing a comprehensive study report. 22 MR. SVEN HOMBACH: And that study 23 report has not been released to date, has it? 24 MS. SHAWNA PACHAL: It has been 25 released to the stakeholders, not to Manitoba Hydro,

3866 so our partners have -- or have it for review, and I believe the other First Nations and stakeholders that the federal government consulted with in their -- in 3 their process have copies of it for review. 5 MR. SVEN HOMBACH: And Manitoba Hydro has not obtained a copy from its partners to date? 7 MS. SHAWNA PACHAL: Yes, we have. MR. SVEN HOMBACH: Okay. Are there 9 any surprises? 10 MS. SHAWNA PACHAL: No. 11 12 (BRIEF PAUSE) 13 14 MR. SVEN HOMBACH: And perhaps to 15 clarify, by 'surprise,' I meant anything that would 16 set back the project or significantly increase mitigation costs that Manitoba has not been budgeted 17 18 for, just to be clear. 19 MS. SHAWNA PACHAL: No, we were generally pleased with the report, and it most 21 importantly had no findings of significance in the context of the envir -- in -- what the federal 22 23 environmental legislation means in terms of 24 significance.

MR. SVEN HOMBACH:

In terms of the

- 1 mitigation costs, I assume that Manitoba Hydro went
- 2 into the provincial CEC review process anticipating
- 3 certain mitigation responses, and hopefully
- 4 anticipating a favourable ruling by the CEC based on
- 5 those mitigation responses?
- 6 MS. SHAWNA PACHAL: Well, by
- 7 mitigation response, I mean, I -- I'm assuming you
- 8 mean our mitigation and monitoring programs, and we're
- 9 hoping that the -- anticipating that the CEC will find
- 10 the mitigation that we've proposed, and the monitoring
- 11 we've proposed to be more than adequate.
- 12 MR. SVEN HOMBACH: And the cost of all
- 13 those programs, has that been incorporated in the net
- 14 present value analysis of any project involving
- 15 Keeyask?
- 16 MR. ED WOJCZYNSKI: Yes, but I need to
- 17 put a qualifier on that, and as Mr. Bowen had
- 18 indicated at some point in his testimony, the old --
- 19 the -- the mitigation and compensation costs are
- 20 always included in our NPV analysis, and they were
- 21 included in our -- the analysis for this NFAT process.
- 22 It -- it did happen, though, that through oversight,
- 23 some of the mitigation costs were not in the old
- 24 estimates.
- 25 And when we did -- and -- and in one

- 1 (1) of our -- two (2) of our IR responses, we
- 2 indicated we were reviewing that, and in the -- in the
- 3 new capital cost estimates that we have all been using
- 4 the last three (3) weeks, or four (4) weeks, or, you
- 5 know, however long it's been, one (1) of the causes of
- 6 the increase in capital cost for both Keeyask and
- 7 Conawapa was some of the -- the putting back in the --
- 8 mit -- some mitigation costs that had been previously
- 9 accidentally left out.
- 10 What it is under the accounting
- 11 policies that we are now -- that we are using, and I'm
- 12 not an accountant, but that's been explained to me
- 13 many times now, any mitigation costs related to a
- 14 project, over the life of that project, have to be
- 15 included in the in-service cost of that project.
- 16 And what happened originally, the cap -
- 17 the mitigation costs which happened during the
- 18 construction period were included in the capital cost
- 19 of the project, and then the mitigation costs after
- 20 the end of construction were identified by our
- 21 mitigation group, and cash flowed and everything, but
- 22 the construction people thought that they would be
- 23 including them in the -- that they would be included
- 24 in the NPV analysis separately, but actually, they
- 25 were intended to be in the capital cost.

25 caribou.

3869 So in the new capital cost that we've 1 been using and presented here include all the mitigation costs now, and that was one (1) of the 3 factors that caused them to increase, and they were in the tens of millions of dollars. It was not trivial. MR. SVEN HOMBACH: Have you made any 6 7 adjustments to the Conawapa capital cost based on anticipating additional mitigation measures required? 9 MR. ED WOJCZYNSKI: Yes. And the --10 this -- what I was talking about was both Keeyask and 11 Conawapa. 12 MR. SVEN HOMBACH: In terms of 13 regulatory risk to both Keeyask and Conawapa, if you 14 had to list the top three (3) VECs, what would they 15 be? 16 17 (BRIEF PAUSE) 18 19 MS. SHAWNA PACHAL: We're just consulting with our partners to make sure we're all on 21 the same page. So I think sturgeon would be considered first, and then worker interaction or 22 23 public safety, the impact on the community --24 communities associated with the projects, and then

- 1 MR. SVEN HOMBACH: So let's deal with
- 2 lake sturgeon first. Lake sturgeon is not currently
- 3 listed under SARA, the Species of Risk Act, is it?
- 4 MR. ED WOJCZYNSKI: No.
- 5 MR. SVEN HOMBACH: But there's been
- 6 discussions about a possible listing, and Manitoba
- 7 Hydro has identified that?
- 8 MR. ED WOJCZYNSKI: Yes, and let's be
- 9 precise here, because this is an important issue, and
- 10 it's easy to get confused. COSEWIC, the Committee on
- 11 the Status of Endangered Wildlife in Canada, has
- 12 identified them as being at risk, and that does not,
- 13 under the Species -- Federal Species of Risk Act, that
- 14 -- that does not bring in a listing under SARA, the --
- 15 SARA being the Species of Risk Act.
- 16 What it then does is initiates a
- 17 process whereby Environment Canada for terrestrial
- 18 species and -- and DFO for aquatic species then
- 19 assesses them through a process laid out under the
- 20 Act, and that process has been underway for a number
- 21 of years now.
- MR. SVEN HOMBACH: One (1) of the
- 23 concerns, if not the key concern, with respect to lake
- 24 sturgeon is that Gull Rapids is a spawning ground for
- 25 lake sturgeon?

- 1 MR. ED WOJCZYNSKI: Yes.
- 2 MR. SVEN HOMBACH: And Gull Rapids
- 3 will disappear with the construction of Keeyask?
- 4 MR. ED WOJCZYNSKI: Yes.
- 5 MR. SVEN HOMBACH: They'll form part
- 6 of the reservoir?
- 7 MR. ED WOJCZYNSKI: Well, the -- the
- 8 powerhouse and dam would be essentially situated at
- 9 the rapids, and then upstream of that would be the
- 10 reservoir, yes.
- 11 MR. SVEN HOMBACH: And another issue
- 12 is that the Keeyask dam will prevent migration from
- 13 Stevens Lake to Gull Lake or vice versa?
- 14 MR. ED WOJCZYNSKI: Migration upstream
- 15 would be prevented. Sturgeon would be able to communi
- 16 -- traverse downstream through either the spillway or
- 17 the smaller ones through the -- through the turbines.
- 18 MR. SVEN HOMBACH: Has Manitoba Hydro
- 19 conducted any studies that deal with turbine mortality
- 20 for downstream passage?
- 21 MR. ED WOJCZYNSKI: We have done
- 22 research on mortality on -- on modern turbines. We
- 23 had a project working with DFO at the Kelsey
- 24 generation station, where we're re-runnering Kelsey
- 25 and putting in new modern turbines, and did an

3872 analysis on those. 2 MR. SVEN HOMBACH: And at a high level, what were the findings? 3 4 5 (BRIEF PAUSE) 6 7 MR. ED WOJCZYNSKI: What we have done is done modelling of the situation at Keeyask, and with the kind of turbines we're going to be using, which, I might add, the turbines have been designed to 10 11 be what we would call fish friendly with modern 12 modifications, and -- but the modelling has indicated 13 that over a 90 percent survival rate for sturgeon going through the turbines, and we're talking about 14 15 the -- the adult sturbines (sic) over half a metre. 16 MR. SVEN HOMBACH: Sorry, 90 percent 17 survival rate for sturgeons bigger than half a metre? 18 19 (BRIEF PAUSE) 20 21 MR. ED WOJCZYNSKI: I misspoke. Less 22 than half a metre. 23 MR. SVEN HOMBACH: Now, without 24 wanting to go into too much detail, sturgeons are fish 25 that breed only once they're quite old, and they live

3873 a long time. They live to about eighty (80) years, is it, give or take? 3 MR. ED WOJCZYNSKI: Something like that. 5 MR. SVEN HOMBACH: So -- and they grow -- they keep growing over their life. 7 MR. ED WOJCZYNSKI: They grow for quite a long time, yes. 9 MR. SVEN HOMBACH: So is there a 10 regulatory risk that if the turbines are dangerous particularly to the larger fish, those are the fish 11 12 that would reproduce, and that increases the level of 13 regulatory risk, even if on a percentage basis, most 14 of them survive? 15 16 (BRIEF PAUSE) 17 18 MS. PATTI RAMAGE: Mr. Chair, Mr. 19 Hombach, it -- it may be of assistance to the panel to know that a -- a full six (6) days was spent on this 21 topic at the CEC hearing, and so the CEC will be 22 covering this in detail. I -- I don't know that Mr. 23 Wojczynski has quite the level of information that the 24 CEC was provided, or is able to provide that. 25 MR. SVEN HOMBACH: And all I'm looking

3874 is for a very high level answer, considering that Manitoba Hydro identified this as the top regulatory risk, Ms. Ramage. 3 4 5 (BRIEF PAUSE) 6 MR. ED WOJCZYNSKI: I -- I -- as was just communicated, we -- this was dealt -- dealt with extensively at the CEC, but what I can communicate, for the larger fish, the ones particularly who are 10 doing -- producing the most spawn, obviously the --11 12 the larger ones will produce more that, yes, there --13 there would be a concern about losing any -- losing 14 any of them. 15 But first of all, the research 16 indicates that the larger stur -- sturgeon do not tend 17 to go down to the intake of the turbines. 18 Secondly, particularly the -- the very 19 larger ones, we -- the trash racks would prevent them from going down into the turbines, and they're strong 21 enough that they can swim in -- in the stream. 22 And thirdly, what we have see -- tend 23 to seen that the -- that the large ones that do go 24 through the turbines do tend to survive, although we 25 don't believe we have a precise number for that.

3875 1 CONTINUED BY MR. SVEN HOMBACH: MR. SVEN HOMBACH: And as part of 3 filing Manitoba Hydro's metrics, Manitoba Hydro provided a list of planned mitigation measures. can be found at page 231 of Board counsel's book of 7 documents. And to briefly go through them, Mr. Wojczynski, it states: 9 "The partnership will develop new 10 sturgeon habitat, undertake an 11 experimental upstream fish passage 12 study, install turbines that enlarge 13 -- that enable a large percentage of 14 fish to successfully pass downstream, 15 and then implement a regional 16 stocking program." 17 MR. ED WOJCZYNSKI: Yes. 18 MR. SVEN HOMBACH: These are based on 19 what Manitoba Hydro was walking into the Clean Environment Commission with? 20 21 MR. ED WOJCZYNSKI: It wasn't Manitoba 22 Hydro, it was the partnership, which is the First 23 Nations and Manitoba Hydro, yes. 24 MR. SVEN HOMBACH: Do you -- do you currently have any reason to doubt that this will be

3876 sufficient, that you will be asked to undertake additional measures? 3 (BRIEF PAUSE) 5 6 MR. ED WOJCZYNSKI: We don't believe that we're going to get any surprises in there. We 7 have done -- Manitoba Hydro and its partners have -have done a very extensive program of research and investigation into this. 10 11 As we said, it was investigated significantly at the CEC hearing. I -- I'll add two 12 13 (2) more comments to that. One (1) is that if there 14 are going to be any surprises, and surprises do 15 happen, we are having a -- a major monitoring program 16 that is part of this and we're going to be using what's called adaptive management. It's a term we 17 18 have mentioned previously in this hearing process. 19 don't know that we've actually discussed it. 20 What adaptive management is, you -- you 21 have a plan for doing something. You -- you monitor 22 that you're being successful. In this case it's 23 sturgeon. You moni -- we will monitor various aspects 24 of the sturgeon population and how well they're doing. We're going to be having a number of measures

- 1 including the ones just mentioned. And -- and we will
- 2 be assessing -- monitoring on an ongoing basis with
- 3 our partners, with DFO, with Manitoba Conservation
- 4 Water Stewardship.
- 5 And if the populations don't increase
- 6 in the area of Keeyask as we are projecting them to do
- 7 and plan for them to do, we will modify our -- our
- 8 measures, expand them as required, so that the
- 9 sturgeon population is, as we've been saying, better
- 10 off with Keeyask than without Keeyask.
- 11 MS. SHAWNA PACHAL: I would also add
- 12 that we've been working and discussing this issue for
- 13 a long time with DFO and Manitoba Conservation and
- 14 Water Stewardship. And probably the best indicator we
- 15 have at this point is in the comprehensive study
- 16 report that the federal government has issued in draft
- 17 for review. They're comfortable with the measures
- 18 that we're taking on sturgeon.
- MR. SVEN HOMBACH: And perhaps --
- 20 MR. ED WOJCZYNSKI: This -- this is an
- 21 important topic, so you're going to get a full
- 22 response. Some of the things that we have done,
- 23 Manitoba Hydro has, for -- for many years, befo --
- 24 including before we started on the Keeyask project, we
- 25 have had a Lake Sturgeon Enhancement Program. That's

- 1 not just in the Keeyask area, that's more broad.
- 2 We have -- we are some of the most
- 3 active participants in two (2) of the sturgeon boards
- 4 in the province, one (1) the Nelson River, one (1) on
- 5 Saskatchewan River. And we have been expanding those
- 6 programs. We have, with our partners, established a
- 7 Sturgeon Stewardship Committee on the Nelson River,
- 8 the Lower Nelson River, in -- in the reach of the --
- 9 not just Keeyask, but also the existing stations on
- 10 the Lower Nelson and poten -- and then the future
- 11 potentially Conawapa.
- 12 We have entered into agreements with
- 13 our partners with twenty (20) years of funding for
- 14 programs, and we are working with DFO and Manitoba
- 15 Conservation Water Stewardship on a stewardship -- a
- 16 sturgeon stewardship agreement. We are just
- 17 finalizing an MOU with -- a memorandum of
- 18 understanding with DFO on looking at two (2) of the
- 19 area -- of the designated units -- the rivers. Let's
- 20 just use that term now, one (1) of them being the
- 21 Lower Nelson where we will be identifying all the
- 22 measures needed to -- including research and
- 23 mitigation for the sturgeon to meet all the
- 24 objectives.
- 25 And the -- the sturgeon stewardship

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- 1 agreement that we are working on with the three (3) --
- 2 the two (2) other entities, DFO and Manitoba, would be
- 3 the basis of a long-term program for sturgeon in the
- 4 area of Keeyask and the Lower Nelson, and eventually
- 5 the idea is we'd expand that to other -- other systems
- 6 in Manitoba. And should sturgeon be listed on -- in
- 7 the area of Keeyask, then this stewardship agreement
- 8 would become a -- a conservation agreement that would
- 9 be the basis of the permitting for -- for Keeyask.
- 10 So we have also already in place -- the
- 11 entity responsible in Manitoba for sturgeon
- 12 stewardship is Manitoba Conservation and Water
- 13 Stewardship. The federal government, DFO, has a
- 14 direct interest through the Species at Risk Act, but
- 15 actually it is Manitoba Conservation and Water
- 16 Stewardship who have that responsibility.
- 17 They have a -- a stewardship plan, and
- 18 we have signed, between Manitoba and Manitoba Hydro, a
- 19 -- a memorandum of understanding on sturgeon where
- 20 we're working together extensively on sturgeon
- 21 together, further enhancement of the population.
- MR. SVEN HOMBACH: Now, MNP indicated
- 23 in their report that Manitoba Hydro is planning to
- 24 construct a temporary fish passage while determining
- 25 whether or not it needs to add a permanent fish

- 1 passage to Keeyask.
- Is that a fair statement made by them?
- MR. ED WOJCZYNSKI: What we're going
- 4 to be doing is -- a -- a form of what you -- MNP
- 5 described. We're not actually going to build a -- a
- 6 massive facility to do that. Once -- as per extensive
- 7 discussions with DFO and Manitoba Conservation, what
- 8 we're going to be doing -- and -- and based on the
- 9 biological information, is monitoring where the
- 10 sturgeon are once the project is in place. Then we're
- 11 going to be catching or trapping some and -- and then
- 12 doing some experimental capture and truck where we
- 13 capture them and then take them upstream, and then
- 14 monitor what happens.
- 15 And then over time, as with our
- 16 monitoring, we will jointly assess whether or not a
- 17 more permanent arrangement is required or not.
- MR. SVEN HOMBACH: And the temporary -
- 19 the -- the capital cost for the temporary
- 20 arrangement, is that included in the most recent cost
- 21 estimate for Keeyask?
- MR. ED WOJCZYNSKI: Yes, and it's
- 23 capital and operating cost that -- those costs are
- 24 included, yes.
- MR. SVEN HOMBACH: Okay.

3881 (BRIEF PAUSE) 1 2 3 MR. SVEN HOMBACH: If I can turn your attention to page 262 of Board counsel's book of documents. That's an excerpt from the MNP report that deals with possible capital costs if a permanent 7 fishway needed. 8 Now, has Manitoba Hydro had an 9 opportunity to review these capital costs and does it agree with MNP's conclusions of what those capital 10 11 costs might be? 12 13 (BRIEF PAUSE) 14 15 MR. SVEN HOMBACH: Before you answer 16 that question, in -- in fairness I should point you to page 262 of Board counsel's book of documents where 17 18 MNP ultimately concludes that it's reasonable to 19 assume that costs will be about \$50 million. 20 21 (BRIEF PAUSE) 22 23 MR. ED WOJCZYNSKI: We've had 24 extensive work done with consultants on this issue and 25 there was discussion at CEC on this issue. First of

- 1 all, we don't think, based on the biology that we
- 2 know, that an upstre -- an upstream fish passage, or
- 3 downstream fish passage will be required. But we
- 4 recognize that if we're wrong on that that we would --
- 5 we would -- we are committed to proceeding with such a
- 6 thing.
- 7 Two (2) more comments. If there was a
- 8 requirement for taking sturgeon from downstream to
- 9 upstream the viable means, and the means we probably
- 10 wouldn't end up doing, is expanding on the capture and
- 11 truck approach that may involve facilities would be on
- 12 the -- on the low cost side. But the range of costs
- 13 that are presented here in the MNP report are
- 14 representative of the range of capital costs that
- 15 could possible be incurred down the road in the worst-
- 16 case scenario.
- 17 And part of our thinking of contingency
- 18 is that we have uncertainty in things and the
- 19 contingence to cover some of those kind of
- 20 uncertainties, although, we don't have a specific
- 21 number put in just for these things.
- MR. SVEN HOMBACH: You're saying it
- 23 could actually be higher than 50 million, or that
- 24 that's the number that Hydro agrees with?
- MR. ED WOJCZYNSKI: In the very worst-

- 1 case scenario it could be higher than 50 million, but
- 2 we think that's very unlikely.
- 3 MR. SVEN HOMBACH: Is there currently
- 4 any contingency built into the most recent capital
- 5 cost estimate for Keeyask to address this issue?
- 6 MR. ED WOJCZYNSKI: I would -- I know
- 7 that that was under consideration when we were doing
- 8 our contingency, but I would -- and I -- I believe
- 9 it's probably in the probabilistic, but -- but I would
- 10 like to doublecheck on that one. So subject to check,
- 11 it is in the contingency.
- 12 MR. SVEN HOMBACH: What is the worst-
- 13 case situation if lake sturgeon receive a SARA
- 14 designation? Does it have the potential to shut down
- 15 the project?
- MR. ED WOJCZYNSKI: Our...

17

18 (BRIEF PAUSE)

- 20 MR. ED WOJCZYNSKI: This topic has
- 21 been explored in the interrogatories, and just CAC
- 22 Round 2-141 is one (1) of them. And what we have
- 23 concluded with the recent information from dealing
- 24 with DFO and the species at risk process is that we
- 25 think it is extremely unlikely that we would not get a

- 1 permit.
- Is it theoretically possible? Yes.
- 3 But if sturgeon are listed on the Lower Nelson, then
- 4 the very likely situation is that we would take the
- 5 sturgeon stewardship agreement that we're in the
- 6 process of putting together with DFO and Manitoba
- 7 Conservation, and that would be the basis of a section
- 8 11 -- what's called a section 11 conservation
- 9 agreement. And on that basis, combined with a section
- 10 73 authorization under the Species at Risk Act, we
- 11 would get permits for -- for Keeyask.
- 12 If there were problems with the
- 13 permitting and that more work had to be done after the
- 14 sturgeon are listed, if that did happen, then what
- 15 would happen, there could be a delay to Keeyask of a
- 16 year or two (2). And -- and that would be the risk
- 17 that we think is a credible risk that would have to be
- 18 considered in the case of Keeyask. But the risk that
- 19 -- we think it's an essentially negligible risk that
- 20 we would not get a permit.
- 21 At an early time we were worried about
- 22 that. And -- but what's happened in the last couple
- 23 years, Environment Canada and DFO and Parks Canada
- 24 have been working with something called the Species at
- 25 Risk Advisory Committee of which I happen to be a

- 1 member and working at -- at -- coming up with a viable
- 2 permitting scheme because this legislation is
- 3 relatively new, the federal legislation.
- 4 And there was concern earlier that
- 5 permitting would not be a practical means to go
- 6 forward. But there -- there's been sufficient
- 7 development with Environment Canada and DFO that now
- 8 that concern has eased and we are confident we'd be
- 9 able to get permits under such a situation.
- 10 MR. SVEN HOMBACH: For caribou, which
- 11 was one (1) -- another one (1) of the top three (3)
- 12 factors that you identified, does -- does the primary
- 13 risk relate to a finding that there might be boreal
- 14 woodland caribou which are protected under SARA?

15

16 (BRIEF PAUSE)

- 18 MS. SHAWNA PACHAL: I don't -- I don't
- 19 think the issue with caribou is which herd it is.
- 20 There's -- there's been some debate about where
- 21 woodland boreal caribou are or are not, and we've
- 22 taken a precautionary approach and assumed that for
- 23 the herd that isn't listed, but people believe could
- 24 potentially be boreal woodland caribou, we've assumed
- 25 it is for the purposes of our assessment.

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3886 And so I think one (1) of the concerns 1 with caribou is that they'll move away from the area when -- during construction, but as I mentioned 3 yesterday, from other projects and other research, we -- we see caribou generally come back to those areas after the disturbance has died down. So we expect that to -- to happen, and so that, I think, is one (1) 7 of the primary concerns associated with the caribou. MR. SVEN HOMBACH: So, Ms. Pachal, 10 when you --11 MS. SHAWNA PACHAL: And -- and I might 12 mention, last year, when we had our Keeyask 13 infrastructure project going, I think there was 14 thousands -- I can't remember. There's some people in 15 the room who might remember how many thousands of 16 caribou came across at the -- at the Keeyask 17 infrastructure project site. It was an amazing thing. 18 Thousands of caribou right in the middle of the 19 construction site. It was quite something to see.

- 20 MR. ED WOJCZYNSKI: I could also add
- 21 to that, that unlike the sturgeon situation, the
- 22 federal government has, after intensive effort across
- 23 Canada, come up with a recovery strategy, and -- and
- 24 so the conclusions of that are what led into the
- $^{25}$  Keeyask assessment and conclusions there. So there --

PUB re NFAT 03-26-2014 3887 there isn't uncertainty as to what the federal and -government environmental processes concluding on caribou. 3 MR. SVEN HOMBACH: So when Manitoba Hydro is identifying this as a top three (3) regularity risk on the environmental side, is it a risk of increased capital costs and additional mitigation measures, project delay, or project 9 shutdown? 10 11 (BRIEF PAUSE) 12 13 MR. ED WOJCZYNSKI: First of all, the 14 caribou issue is important in its own right, because 15 caribou are important species. Secondly, they're very -- the --16 17 they're very important to our -- our partners and to 18 other Aboriginal people, and so that gives it some --19 some additional prominence. 20 And thirdly, the risk to the project would be that there would be some additional 21

22 monitoring required, and potentially some adaptive

23 management, but we don't see it being a -- a risk that

24 the project couldn't proceed or be delayed.

3888 1 (BRIEF PAUSE) 2 3 MS. SHAWNA PACHAL: Yeah. I think just to reinforce, we picked it as one of our top VECs because it's so important to our partners, not because it's a risk to the project. 7 MR. SVEN HOMBACH: An environmental risk, per se, as opposed to a financial risk? 9 MS. SHAWNA PACHAL: Correct. 10 MR. SVEN HOMBACH: And in terms of public safety that you identified, Ms. Pachal, does 11 12 that refer to the issue of community interaction and 13 keeping workers at the camp, or --14 MS. SHAWNA PACHAL: Yes, it does. 15 MR. SVEN HOMBACH: Since that's a -an issue we covered yesterday, I'd briefly like you to 17 -- take you to the adverse effects agreements, and I 18 believe it was you, Ms. Pachal. Yesterday you 19 indicated you do not see those as being a benefit. 20 Is that because you look at those as 21 being compensatory in nature? 22 MS. SHAWNA PACHAL: Well, more so that I see them as we would -- we would enter into adverse effects arrangements regardless of whether or not we 24 25 had a partnership. If there is some sort of impact

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- 1 that has been identified and verified, we would enter
- 2 into an adverse effects arrangement regardless of
- 3 whether or not there was a partnership.
- So I don't see it as a benefit, per se.
- 5 I see the -- the combination of the adverse effects
- 6 arrangements and the -- the offsetting programs within
- 7 those combined with the -- the benefits through the
- 8 partnership, the employment, the training, the
- 9 business opportunities, the income, all combined
- 10 together to create the -- the net benefit.
- 11 MR. ED WOJCZYNSKI: If -- if you look
- 12 at how worldwide the evolving approach to resource
- 13 development, we used to have a paradigm, twenty (20),
- 14 thirty (30) years ago -- fifteen (15) years ago, where
- 15 what you would do in projects, whether it's hydro or
- 16 anything else, is you would identify the negative
- 17 impacts through consultation and studies and whatever,
- 18 and then you would mitigate them so that you come to a
- 19 place where people are no wa -- worse off with a
- 20 project than without the project. That was the
- 21 paradigm until recently.
- 22 What has evolved increasingly, and --
- 23 and Manitoba Hydro is a strong proponent of this, is
- 24 that we'd like the projects to be not just that people
- 25 are no worse off than without the project, but they're

- 1 actually better off. So what the mitigation is
- 2 intended to do is deal with the adverse impacts, and
- 3 either prevent them or somehow offset them or deal
- 4 with them.
- 5 But in addition to that is to provide,
- 6 in various forms, benefits so that overall, the -- the
- 7 local people who are in the area of the project,
- 8 however one defines that, that overall, not only are
- 9 they not -- not worse off, but that there are benefits
- 10 which have them better off with the project.
- MR. SVEN HOMBACH: And, broadly
- 12 speaking, there's two (2) components to those
- 13 agreements, right? There's a financial component and
- 14 a -- a program component? I'm looking at page 286 of
- 15 the Board counsel's look of -- book of documents,
- 16 what's currently open. That shows the -- the
- 17 financial payments to the First Nations?

18

19 (BRIEF PAUSE)

- 21 MS. SHAWNA PACHAL: As we mentioned
- 22 before, we start with the approach that we try to
- 23 avoid an impact at -- to start with. So as I
- 24 mentioned before on transmission, we have the opp --
- 25 much more opportunity to do that, but we do have

- 1 opportunities on the generation side to do that as
- 2 well. And so we try to design our projects in ways to
- 3 avoid the impact to start with. If we're not able to
- 4 avoid it, we try to mitigate it, and -- and so we used
- 5 to -- primarily, that was just a -- a matter of
- 6 various types of programs that the Corporation would
- 7 engage in.
- 8 And then we moved to a place where we
- 9 actually, in terms of mitigation, do an -- you know,
- 10 various types of environmental mitigation and programs
- 11 and activities associated with the projects. But our
- 12 partners -- we also fund our partners to implement
- 13 programs that they want to implement to mitigate the
- 14 impacts on -- on themselves and their communities. So
- 15 the adverse effects contains funding to fund programs
- 16 associated with those offsetting programs. And then
- 17 for residual effects, for impacts that we are unable
- 18 to mitigate, there is some residual compensation.
- MR. SVEN HOMBACH: And, Ms. Pachal,
- 20 the offsetting programs that you refer to are
- 21 described at pages 281 through 285 of Board counsel's
- 22 book of documents that contains excerpts of each of
- 23 the four (4) adverse effects agreement.
- 24 And I won't ask you to describe them
- 25 all in detail today, but what I will ask Manitoba

3892 Hydro to do is to file a high level description or a matrix of each of the offsetting programs for the record. 3 5 (BRIEF PAUSE) 6 7 MS. SHAWNA PACHAL: Yeah, we did that for the CEC, and we can bring that back and -- and provide that to you. 10 MR. SVEN HOMBACH: Thank you. 11 12 --- UNDERTAKING NO. 68: Manitoba Hydro to file a 13 high level description or a 14 matrix of each of the 15 offsetting programs per the 16 adverse effects agreement 17 18 CONTINUED BY MR. SVEN HOMBACH: 19 MR. SVEN HOMBACH: So the residual compensation, and that's what we're looking at at page 286 of Board counsel's book of documents, it would be 21 22 an annual payment for Tataskweyak, for example, of 23 about 2.1 million per year? 24 MS. SHAWNA PACHAL: Yes, I -- I haven't had a chance to go through that, but that's

3893 what it appears to be, the -- a -- a guaranteed annual amount. 3 MR. SVEN HOMBACH: And -- and these payments are going to be made for as long as the projects are operational, right? They will not culminate at the end of the seventy-eight (78) year 7 analytical period? MS. SHAWNA PACHAL: I believe that's 8 the case for Tataskweyak, War Lake, and York Factory, but not for Fox Lake. I think Fox Lake has different 10 arrangements. I'm not entire -- this isn't my area of 11 12 expertise particularly, so. 13 MR. SVEN HOMBACH: Perhaps Manitoba 14 Hydro can clarify if any of those are currently scheduled to terminate at a certain point in time, by 15 16 way of undertaking if necessary? 17 MS. SHAWNA PACHAL: Just -- if you 18 give me a moment to consult, I'll just get you an 19 answer right away. 20 21 (BRIEF PAUSE) 22 23 MS. SHAWNA PACHAL: I'm told in this 24 undertake -- or in this IR, this response, it shows

somewhere when the Fox Lake -- under the Fox Lake

3894 area. So the others all go for the life of the project, but the guaranteed annual amounts are on the schedule here for Fox Lake. It looks like it's 2025. 3 Is that right? If I'm read -- am I reading the schedule right? Jack, is that right, 2025? Yeah. 6 Yeah, 2025. 7 (BRIEF PAUSE) 9 10 MR. SVEN HOMBACH: I want to touch briefly on the issue of greenhouse gasses, if I may, 11 or do you have anything to add on -- on this issue, Ms. Pachal? 13 14 MS. SHAWNA PACHAL: No. 15 MR. SVEN HOMBACH: Okay. 16 THE CHAIRPERSON: Me. Hombach, we're at twenty (20) minutes to 11:00. How much longer have 17 18 you got? 19 MR. SVEN HOMBACH: About fifteen (15) 20 minutes in total, Mr. Chairman. 21 THE CHAIRPERSON: I think we should 22 break right now, please. So let's take ten (10) 23 minutes, please. 24 25 --- Upon recessing at 10:42 a.m.

3895 --- Upon resuming at 11:01 a.m. 2 3 MR. SVEN HOMBACH: Let's continue on. And I understand from Ms. Ramage, who's still listed as Doug Bedford on the name tag, that you have some undertakings to speak to? 7 MS. PATTI RAMAGE: I am Doug Bedford. I just grew my hair and got a couple years younger. We have a -- an undertaking to submit this morning. 10 It is Manitoba Hydro undertaking number 11 I believe it will be entered as Manitoba Hydro Exhibit number 132. This was with respect to 12 13 providing a written explanation of the distinction between the six hundred and thirty (630) per person 14 15 years referenced in the JKDA and the total of four 16 thousand two hundred and eighteen (4,218) per person years referenced in the Keeyask project EIS. 17 18 19 --- EXHIBIT NO. MH-132: Response to undertaking 20 number 61: A written 21 explanation of the 22 distinction between the six 23 hundred and thirty (630) 24 per person years referenced 25 in the JKDA and the total

	3896
1	of four thousand two
2	hundred and eighteen
3	(4,218) per person years
4	referenced in the Keeyask
5	project EIS
6	
7	MS. PATTI RAMAGE: Now, I understand
8	Ms. Kidd-Hantscher has some comments on this that may
9	assist the Board in in understanding the
10	explanation, so if perhaps she could just explain the
11	undertaking?
12	MS. JANE KIDD-HANTSCHER: I assume you
13	have a copy of it by now? Okay. Thank you. So just
14	in terms of the high level or the high points of
15	what's in this, what we indicate here is that, and we
16	did speak to this yesterday, that the JKDA in
17	includes this employment target of six hundred and
18	thirty (630) person years of construction employment
19	for the Keeyask Cree Nations.
20	It's important to point out that this
21	target includes their participation in construction of
22	the generating station project, as well as their
23	participation in the Keeyask infrastructure project,
24	employment opportunities, and all pre-construction
25	employment that followed the signing of the

- 1 Development Agreement in 2009.
- 2 So for illustrative purposes, we've had
- 3 over five (5) years of employment that is being
- 4 counted toward this target, and that was one of the
- 5 main distinctions that we were trying to make
- 6 yesterday, that this does not just apply to the
- 7 construction of the generation station project. It
- 8 has been being tracked, and every employment to date
- 9 has been included in that target.
- 10 We did describe this target a little
- 11 bit more fully in a response to the Clean Environment
- 12 Commission, and detailed follow-up questions and we've
- 13 attached that. A specific reference is Question 28.
- 14 So we've included that -- that in this package of
- 15 information.
- 16 We tracked this process -- or tracked
- 17 this measure through a separate process and
- 18 methodology, and that methodology is described in
- 19 Article 12 of the Development Agreement, and again
- 20 is attached for reference. We thought it would be
- 21 also helpful to just add a couple of other clarifying
- 22 points.
- 23 That the total person years of
- 24 employment that we were speaking about yesterday, in
- 25 the Keeyask Generation Project EIS of forty-two

- 1 hundred and eighteen (4,218), and the related
- 2 predictions is based on an estimate of the total
- 3 person hours of labour required to complete the
- 4 construction of only the Keeyask Generation Project,
- 5 and that estimate is based on an average of roughly
- 6 three thousand (3,000) hours worked per year.
- 7 This calculation of a person year is
- 8 used for the purposes of project planning and for
- 9 determining workforce estimates, because it
- 10 incorporates additional hours. So the three thousand
- 11 (3,000) is the additional hours typically worked in a
- 12 project construction environment, and it's also been
- 13 used for the economic analysis provided in the Keeyask
- 14 Generation Project environmental impact statement, and
- 15 the NFAT filing.
- 16 During the course of long-term
- 17 monitoring that we've already talked about that we'll
- 18 undertake for the project, we will monitor based upon
- 19 the three thousand (3,000) person year definition to
- 20 compare back to the EIS predictions. So we'll be able
- 21 to say, We predicted forty-two eighteen (4,218) based
- 22 on three thousand (3,000) person hour calculation.
- 23 What did we end up with based upon that same
- 24 calculations?
- 25 We will also be able to -- and will

- 1 report based on a two thousand (2,000) person year
- 2 calculation, and we did put that reference out there
- 3 yesterday about our reporting being done based on two
- 4 thousand (2,000) person years -- or person hours, and
- 5 we do that for the purposes of comparing to a typical
- 6 or standard work week. So that's -- that's
- 7 essentially an industry standard.
- 8 All person year figures that have been
- 9 publically reported for the Wuskwatim Project as a
- 10 point of reference were all done based upon two
- 11 thousand (2,000) hours.
- 12 So there's -- so this -- there's a lot
- 13 of detail in here. We wanted to walk through it
- 14 quickly. Of course, we can certainly answer any
- 15 further questions, but we hope this is helpful to
- 16 clarify the difference between the six thirty (630),
- 17 and how we projected workforce estimates for the
- 18 project, and how we will monitor and report on those
- 19 to compare back to what those predictions were.

20

21 (BRIEF PAUSE)

22

- MR. SVEN HOMBACH: Any questions from
- 24 the panel, Mr. Chairman, or shall I continue?

- 1 CONTINUED BY MR. SVEN HOMBACH:
- 2 MR. SVEN HOMBACH: Okay. I'd like to
- 3 briefly touch on the issue of greenhouse gases, and
- 4 I'd like to take you to page 300 of Board counsel's
- 5 book of documents. That is Table 1 from Appendix 7.3
- 6 of the NFAT business case, and that shows the life --
- 7 the life cycle greenhouse gas emissions for each of
- 8 Keeyask and Conawapa, and we're seeing that it's
- 9 significantly higher for Keeyask and Cona -- than for
- 10 Conawapa.
- Is that because more land is being
- 12 flooded for Keeyask?
- MR. ED WOJCZYNSKI: No.
- 14 MR. SVEN HOMBACH: Then perhaps you
- 15 can explain, Mr. Wojczynski.
- 16
- 17 BILL HAMLIN, Previously Sworn
- 18
- 19 MR. BILL HAMLIN: This is Bill Hamlin.
- 20 The -- it -- it is in part due to more flooding or
- 21 more land use change. That is a factor for -- for
- 22 Keeyask, but a more significant factor is that more
- 23 energy is produced for Conawapa, and that lowers the
- 24 levelized impact for the greenhouse gas.
- MR. SVEN HOMBACH: Thank you for that

3901 clarification, and on that note I would like to take you to page 11 of Board counsel's book of documents. 3 (BRIEF PAUSE) 5 6 MR. SVEN HOMBACH: That is Appendix 9.1 to the NFAT business case, and it's a high level development plan comparison table. And, Mr. Hamlin, if we look at the -- the section that's highlighted in green, "Environmental," the cumulative greenhouse gas 10 emissions for the various plans that Manitoba Hydro's 11 putting forward is set out there, correct? 13 MR. BILL HAMLIN: Please repeat the 14 question. 15 MR. SVEN HOMBACH: What we're looking at at the top line that's highlighted in green is the 16 17 cumulative greenhouse gas emissions projected for each 18 of the fifteen (15) development plans? 19 MR. BILL HAMLIN: That's -- that's 20 correct. 21 MR. SVEN HOMBACH: Can Manitoba Hydro 22 please file, by way of undertaking, a -- an intensity 23 based listing for the greenhouse gas emissions, 24 because I do not see that on this table? Meaning a --

a listing per kilowatt hour or gigawatt hour of

with other capacity?

3902 electricity produced. 2 MR. BILL HAMLIN: I don't see that available on this table. 3 MR. SVEN HOMBACH: But that is 4 5 something they could provide? MR. BILL HAMLIN: That is something we 6 7 could develop, yes. 8 MR. SVEN HOMBACH: Okay. Then I'd like an undertaking to -- to file that in the NFAT. 10 I'm seeking an undertaking to file the intensity based greenhouse gas emissions for Manitoba Hydro's 11 12 development plans filed in the NFAT. 13 MR. BILL HAMLIN: Yes. 14 15 --- UNDERTAKING NO 69: Manitoba Hydro to provide 16 intensity based greenhouse 17 gas emissions for each 18 development plan filed in 19 the NFAT 20 CONTINUED BY MR. SVEN HOMBACH: 21 22 MR. SVEN HOMBACH: Now, for the plans 23 that include wind, is there any type of allotment made 24 for the need to backstop wind with gas capacity, or

- 1 MR. ED WOJCZYNSKI: You're talking
- 2 about in the calculations of the greenhouse gases?
- 3 MR. SVEN HOMBACH: Yes.
- 4 MR. ED WOJCZYNSKI: No.
- 5 MR. SVEN HOMBACH: And can -- can you
- 6 explain the reason for -- for not including that?
- 7 MR. ED WOJCZYNSKI: The calculation
- 8 was for each technology in its own right, how it would
- 9 -- without putting it inside a plan, because some of
- 10 the different technologies, like the wind, you -- you
- 11 could have it backstopped by hydro, you could have it
- 12 backstopped by gas, you could have it backstopped by
- 13 coal. So what we're doing is take the technology, not
- 14 embed it in a plan, but itself somewhat isolated.
- MR. SVEN HOMBACH: But, Mr.
- 16 Wojczynski, if we're looking at the table in front of
- 17 us on page 11, for the plans that would include wind,
- 18 like Plan 3, the -- the Wind/Gas Plan, that would
- 19 include that, because the wind would already be to, an
- 20 extent, backstopped by gas generation, correct?
- 21 MR. ED WOJCZYNSKI: Yes, and when Mr.
- 22 Hamlin provides the intensity -- the GHG intensity per
- 23 gigawatt hour for these -- each plan, then the -- to
- 24 the degree there is a -- some backstopping happening,
- 25 I assume that -- I -- I expect that those impacts

- 1 would be captured in the -- that comparison you've
- 2 asked for.
- 3 MR. SVEN HOMBACH: And with the recent
- 4 changes to Manitoba Hydro's Preferred Development Plan
- 5 and assumptions influence the greenhouse gas emissions
- 6 at all, or would they materially influence them?
- 7 MR. ED WOJCZYNSKI: I belie -- you're
- 8 referring to the capital cost changes?
- 9 MR. SVEN HOMBACH: The capital cost
- 10 and the increased DSM.
- 11 MR. ED WOJCZYNSKI: The -- the capital
- 12 costs would not affect these. The increase in DSM
- 13 will affect not the emissions from an individual
- 14 technology per se, but the greenhouse gas intensity
- 15 numbers for the plans might be slightly modified,
- 16 because you're changing the timing of resources.
- 17 But I -- subject to actually seeing the
- 18 results, I don't expect you'd see a -- a great deal of
- 19 difference, because you would change -- when a new
- 20 resource comes in with its emissions, I'm thinking of
- 21 gas right now, but then you'd also have the energy
- 22 produced deferred, so I would expect you wouldn't see
- 23 big differences by changing the DSM levels in that.
- 24 You -- you would see a difference if you were
- 25 measuring it -- no, let's just leave it at that.

3905 MR. SVEN HOMBACH: And, lastly, before 1 I relinquish the microphone, I'd like to touch on the clean energy strategy that forms part of the terms of 3 reference that were issued to the Public Utilities Board. That's found at Tab 14 of Board counsel's book of documents. First of all, I'd like to establish 7 that this is a strategy of the province, not of Manitoba Hydro, correct? 10 MS. SHAWNA PACHAL: That is correct. 11 MR. SVEN HOMBACH: And both Keeyask 12 and Conawapa are mentioned on page 2 of the strategy, 13 which is page 330 of Board counsel's book of documents, but it doesn't mandate that either of those 14 15 facilities is built, it merely states that they should proceed to the environmental and economic review? 16 17 MR. ED WOJCZYNSKI: This isn't 18 something that mandates us that we have to do. This 19 is viewed by the province as a strategy, but it's not -- not something because they say that, we have to do it. 21 22 23 (BRIEF PAUSE) 24 25 MR. SVEN HOMBACH: Now, if I take you

- 1 to page 331 of the book of documents, on the top
- 2 right, you see that there's a reference to keeping the
- 3 rates low.
- 4 So you'd agree that as part of the
- 5 strategy, overall utility rates in Manitoba are a
- 6 consideration that the PUB has to take into account?
- 7 MR. ED WOJCZYNSKI: There's no
- 8 question that the rates that result from the selection
- 9 of plans is something the PUB should take into
- 10 account, yes.
- 11 MR. SVEN HOMBACH: And if you flip
- 12 over one (1) page to page 4 of the strategy, page 332
- 13 of the book of documents, there's a reference to the
- 14 development of a thousand megawatts of wind power as
- 15 economically viable.
- 16 Are you in a position to advise the
- 17 Board whether that's going to be proceeded with
- 18 regardless of which development plan is ultimately
- 19 chosen?
- 20 MS. PATTI RAMAGE: Mr. Hombach, and
- 21 I'm not sure if that was just the inflection, but as I
- 22 read that it -- it does not conclude that the -- I --
- 23 I want to make sure that the question was prefaced, it
- 24 -- the statement doesn't conclude that the wind power
- 25 is economically viable.

- 1 The -- it's to develop it as it is
- 2 economically viable. I just want to make sure we
- 3 clarify what the question was.
- 4 MR. SVEN HOMBACH: I appreciate that,
- 5 Ms. Ramage, and I -- I apologize to the extent that I
- 6 wasn't clear. That was my understanding, as well.

- 8 CONTINUED BY MR. SVEN HOMBACH:
- 9 MR. SVEN HOMBACH: Is that issue being
- 10 assessed outside of this process, or is that just
- 11 being assessed as part of the Preferred Development
- 12 Plan review?
- 13 MR. ED WOJCZYNSKI: The economics of
- 14 proceeding with wind is evaluated by Manitoba Hydro on
- 15 an ongoing basis in its resource planning process, and
- 16 through any information that Mr. Cormie's division
- 17 acquires through interacting with potential non-
- 18 utility generation suppliers of wind.
- 19 In the NFAT process, we also did
- 20 consider wind as an alternative, building on what
- 21 we've been doing in the resource planning, and we are
- 22 not finding it economic at this time, so we are not
- 23 proceeding with more wind. Sim -- somewhat similar to
- 24 the case with the DSM in the Preferred Plan, down the
- 25 road, as we find it economic, if it is economic, then

- 1 we would proceed with wind at that time.
- 2 And Manitoba Hydro's application of
- 3 this strategy of the 1,000 megawatts is that we would
- 4 like to be able to develop a thousand megawatts but --
- 5 of wind. We've already got our two hundred and fifty-
- 6 eight (258). We've had that target for a while, but
- 7 unless it's economic, we wouldn't be proceeding to the
- 8 full thousand.
- 9 THE CHAIRPERSON: The text, in fact,
- 10 is quite misleading here, because it is suggesting
- 11 that:
- 12 "There will be economic gains from an
- investment, and there will be
- 14 revenues generated in rural
- 15 communities."
- 16 So it's a bit unfortunate, but it does
- 17 communicate that there will be savings generated from
- 18 -- pardon me, there will be revenues generated from
- 19 wind. And...

20

21 (BRIEF PAUSE)

- 23 MR. ED WOJCZYNSKI: Yeah, we -- we did
- 24 not -- Manitoba Hydro did not write this, obviously.
- 25 This is a government document. It's -- I think it's -

3909 - it's -- I -- I don't know about the exact numbers. If a thous -- if a thousand megawatts of wind in total was developed, then there would be -- there would be 3 new investment, and there would be revenues to the rural communities. Those may or may not be the right numbers, but that doesn't mean they'd be economic, of 7 course, and -- but -- but then, like I said, this is the government's document, not ours. 9 10 (BRIEF PAUSE) 11 12 CONTINUED BY MR. SVEN HOMBACH: 13 MR. SVEN HOMBACH: On that note, Mr. 14 Wojczynski, to the extent that the clean energy strategy is discussing a window of opportunity for 15 16 building new hydro. 17 Is that Manitoba Hydro's phrase or is 18 that the government's? 19 MR. ED WOJCZYNSKI: It's a phrase we have used and we -- we communicate with the government 21 as well as -- as the many others in the province. 22 they're very aware of our thinking on -- on a window 23 of opportunity. So presumably, they adopted it after 24 hearing us and our concept. 25 MR. SVEN HOMBACH: Let's turn to page

- 1 340 of Board counsel's book of documents, which is
- 2 page 12 of the Clean Energy Strategy. In the top left
- 3 corner there, the first paragraph, you see a reference
- 4 to projected gas prices in the future. And if I may
- 5 read from it it states that:
- 6 "These bodies forecast natural gas
- 7 prices ranging from five dollars (\$5)
- 8 to eleven dollars (\$11) per gigajoule
- 9 in the coming decades."
- 10 Do you see that?
- MR. ED WOJCZYNSKI: Yes.
- MR. SVEN HOMBACH: Now, I appreciate
- 13 that we cannot discuss CSI in this hearing, but in
- 14 response to a CSI Information Request, which was
- 15 PUB/MH-245a, Manitoba Hydro filed a range of most
- 16 recent gas price forecasts.
- 17 Is Manitoba Hydro in a position to
- 18 speak to what the current expected range of forecasts
- 19 is in light of a range being presented here?
- 20 MR. ED WOJCZYNSKI: I'd have to take
- 21 that as an undertaking. I certainly -- we could up --
- 22 I -- I am -- I assume we could sub -- under advisement
- 23 -- take under advisement that we could update the
- 24 previous interrogatory, but I certainly am not in a
- 25 position to do that on the stand right now.

3911 1 MR. SVEN HOMBACH: Thank you. Now... 2 3 (BRIEF PAUSE) 5 MR. SVEN HOMBACH: Now, as my last question, there was significant discussion over the 7 past two (2) days as to the benefit of Aboriginal communities. But the PUB is being asked under the Terms of Reference to look at northern and Aboriginal 10 communities. 11 Aside from the breakdown into northern 12 and southern construction, has Manitoba Hydro 13 performed any breakdown that looks at the socioeconomic benefits to non-Aboriginal, or non First 14 15 Nations' communities specifically, or even First 16 Nations that aren't Manitoba Hydro partners? 17 MS. SHAWNA PACHAL: Yes, that was 18 submitted and -- and discussed extensively at the CCE. 19 It's part of our EIS submission. The socioeconomic evaluation we did looks at the partnership communities, like the communities in the local study 21 22 area and the vicinity, and other communities in the 23 regional study area, or the -- the northern -- the 24 northern region, and then the south as well. 25 MR. SVEN HOMBACH: And perhaps what

3912 I'll ask Manitoba Hydro to do is to file a high-level matrix in a similar format to what was provided on the environmental side in response to Information Request 3 CAC/MH-231a to describe those socioeconomic impacts. 5 MS. SHAWNA PACHAL: I'm not -- I'm a little bit confused. Like the -- that's very, very broad. That would be bringing eighteen (18) -- our 7 eighteen thousand (18,000) pages of our EIS here. I'm not exactly sure what you're --10 MR. SVEN HOMBACH: Perhaps I can... 11 12 (BRIEF PAUSE) 13 14 MS. SHAWNA PACHAL: So just to 15 confirm, you want it at the same level of -- as 231a? 16 MR. SVEN HOMBACH: Yes, at a similar 17 level. A high-level matrix just to -- to summarize 18 the points that were canvassed before the CEC. 19 MS. SHAWNA PACHAL: Okay. 20 MR. SVEN HOMBACH: Okay. I'll restate 21 the undertaking for the court reporter and you'll 22 correct me if I'm misphrasing this, Ms. Pachal. 23 I'm requesting an undertaking to 24 describe the socioeconomic benefits to non-Aboriginal 25 northern communities and to Aboriginal communities

3913 that aren't Manitoba Hydro partners in a matrix format, in a similar style as to what was provided for environmental effects in response to Information 3 Request CAC/MH-231a. 5 MS. SHAWNA PACHAL: Yeah, that's fine. 6 7 --- UNDERTAKING NO. 70: Manitoba Hydro to describe the socioeconomic benefits 8 9 to non-Aboriginal northern 10 communities and to 11 Aboriginal communities that 12 aren't Manitoba Hydro 13 partners in a matrix 14 format, in a similar style 15 as to what was provided for environmental effects in 16 17 response to Information 18 Request CAC/MH-231a. 19 20 MR. ED WOJCZYNSKI: I would like to 21 just add -- we will do that. But I would just like to add that when we did 231a there were in various places 22 where there were benefits described that were not just 24 to the partner communities, but we did not do a distinct separation like you're asking for, so just --

- 1 just so it's clear.
- MR. SVEN HOMBACH: Thank you. Mr.
- 3 Chairman, those are all my questions to this panel.
- 4 I'm advised by Intervenor counsel that there's an
- 5 agreement between the Intervenors that Me. Hacault
- 6 will start his cross-examination first.
- 7 And if the panel has no further
- 8 questions at this time I suggest we turn it over to
- 9 Me. Hacault.
- 10 MS. SHAWNA PACHAL: My partners have
- 11 asked me to just correct -- when I made the
- 12 clarification this morning about when they need to
- 13 make their investment decision, they just wanted me to
- 14 be very clear that yesterday I think Mr. Wojczynski
- 15 said that would be 2019, but it would probably,
- 16 because I had talked about it's a hundred and eighty
- 17 (180) days after closing when the last turbine's in,
- 18 the actual date if we start construction in 2014, that
- 19 they have to make their investment decision is in
- 20 about 2022. And they wanted that to be clear for the
- 21 record. Thank you.
- THE CHAIRPERSON: Thank you, Me.
- 23 Hombach. I'll turn the microphone over to Me.
- 24 Hacault. S'il vous plait.
- MR. ANTOINE HACAULT: Bonjour, M.

3915 President, members of the Board, Hydro panel members. The first thing I need to do is administrative. had distributed yesterday a book of documents, Volume 3 VI. I believe it's marked as MIPUG Exhibit 20-6. 5 MR. KURT SIMONSEN: That's correct. 6 (BRIEF PAUSE) 9 CROSS-EXAMINATION BY MR. ANTOINE HACAULT: 10 MR. ANTOINE HACAULT: I was just 11 looking at Madam Reporter to see if I was okay to 12 proceed. There is initially a couple questions as 13 arise out of a slide by Dr. Shaffer, and the plan --14 just to clarify the plan and what analysis we have, 15 and also dealing with the concept of expected value. 16 So to start with, if Diana could bring up slide 129, I think it's dash 7, that's in the... 17 18 That one will work, too. There's a slide... Now, if 19 we -- I just -- the thing I'm going to want to clarify is that in Mr. Wojczynski's presentation the 750 line 21 wasn't absolutely tied to a decision to Conawapa, as I 22 understand it. 23 Is that correct?

24 MR. ED WOJCZYNSKI: Could you repeat

25 the question, please.

3916 MR. ANTOINE HACAULT: 1 Building the 750 line wasn't absolutely tied to a decision to build Conawapa. In other words, we could build a 750 line 3 in one (1) of the pathways and not necessarily build Conawapa. And Pathway 5 would be such an example, as shown on this slide. And another one would be Pathway 7 6, correct? MR. ED WOJCZYNSKI: That is correct. The decision -- from Manitoba Hydro's point of view, 9 the decision to proceed with the 750 megawatt line is 10 not absolutely tied to Conawapa. But having said 11 12 that, we expect ultimately we will be building 13 Conawapa, and that is one (1) of the upsides for that 14 line, but -- but it is not an absolute must. 15 MR. ANTOINE HACAULT: Thank you. So 16 if we could go back in the presentation to Dr. Shaffer's presentation. I think that's 129-6, for the 17 18 pagination, and then slide 6 of that presentation. 19 The third bullet asked the question, and I'm quoting: 20 "Is the plan with a large interconnection and Conawapa 21 22 preferable to one with a small 23 interconnection and no Conawapa." 24 That question seemed to tie the decision of whether to proceed with Conawapa with a

- 1 750 line and if we didn't have Conawapa we'd have to
- 2 go back to the small line of 250 megawatts.
- 3 And I really don't care who answers
- 4 that, but that isn't necessarily Hydro's current
- 5 position as shown on your end presentation, Mr.
- 6 Wojczynski?
- 7 MR. ED WOJCZYNSKI: You're -- you're
- 8 right. That is -- that is not probably a good
- 9 characterization of where we are today. I would have
- 10 to suggest that that was probably a characterization
- 11 of where we were when Dr. Shaffer was given his
- 12 original assignment, and -- and when we started the
- 13 work on the NFAT.
- 14 But our thinking evolved. We responded
- 15 to the metrics. We responded to the changes in
- 16 information. And, so our thinking has evolved.
- 17 MR. ANTOINE HACAULT: Okay. Thank you
- 18 for that clarification. So at least personally I'm
- 19 going to put a big 'X' across that question so I don't
- 20 ask myself that as a key question. Is that fair?
- 21 MR. ED WOJCZYNSKI: I -- I think what
- 22 you can do on your piece of paper what you want, but
- 23 it's -- yeah. That -- that isn't the question we're
- 24 facing right now. But I -- I don't know if Dr.
- 25 Shaffer wants to comment, given this is actually his

- 1 work.
- 2 DR. MARVIN SHAFFER: The only comment
- 3 is -- is to point out, This was a question that was
- 4 raised by the set of plans that we were looking at
- 5 when, as -- as Mr. Wojczynski said, I was given my
- 6 original instructions. Plans 5, 6, and 12 have come
- 7 up more recently, and deal with the question of -- of
- 8 different formations of the 750 megawatt with or
- 9 without Conawapa.
- 10 MR. ANTOINE HACAULT: And when were
- 11 you advised, sir, that the 250 megawatt line was not a
- 12 feable -- feasible or viable option, do you recall?
- DR. MARVIN SHAFFER: Well -- well
- 14 after the completion of my -- my original report and
- 15 the filing of the NFAT. It was -- I don't know
- 16 exactly when but within the last month.
- 17 MR. ANTOINE HACAULT: Thank you, sir.
- 18 The -- if we could -- Diana, if you could bring us
- 19 back to 129-7, and page 2 this time.

20

21 (BRIEF PAUSE)

- 23 MR. ANTOINE HACAULT: As I understand
- 24 it, the Preferred Development Plan is
- 25 Keeyask19/Conawapa26, if that's possible, and then

- 1 alternatives to delaying Conawapa, correct?
- 2 MR. ED WOJCZYNSKI: Yes.
- 3 MR. ANTOINE HACAULT: Now, it may be
- 4 in the six thousand (6,000) pages, or the multitude of
- 5 undertakings to come up, but I don't see at least on
- 6 your latest presentation any numbers for
- 7 Keeyask19/Conawapa26. We see Conawapa here on this
- 8 slide being either in 2031 or 2030, but we don't see
- 9 the effect of actually building Conawapa four (4) to
- 10 five (5) years earlier.
- 11 We won't have the number for the effect
- 12 of building Conawapa four (4) or five (5) years
- 13 earlier?
- 14 MR. ED WOJCZYNSKI: I'm sorry, if --
- 15 if we're looking at this table there is a Conawapa26
- 16 in the base DSM column for the Preferred Plan. So
- 17 there is a Conawapa26 there. So I'm -- I'm not sure
- 18 that I understand your question.
- 19 MR. ANTOINE HACAULT: Okay. I'll take
- 20 it in small chunks. The Conawapa26 shown on -- on the
- 21 plan is base DSM, and we know that won't happen,
- 22 correct?
- 23 MR. ED WOJCZYNSKI: We expect we will
- 24 do more DSM -- significantly more DSMs in that plan,
- 25 so everything else being equal and including having no

- 1 new export contracts and no pipeline load, we would
- 2 see that date. But even without new exports, if we do
- 3 -- if we do Level 2 DSM the pipeline load -- pardon
- 4 me, if we do part of Level 2 DSM, not all of it, and
- 5 we do the pipeline load then you're getting something
- 6 close back to '26. And with new export contracts,
- 7 it's conceivable we'd go back to '26. It's more
- 8 likely, probably we're -- we could be talking about
- 9 '27, for example, but I -- I can't really say what the
- 10 final date would be, but it is a range of dates we've
- 11 talked about.
- 12 MR. ANTOINE HACAULT: But then I get
- 13 back to my question, based on the current capital
- 14 costs, the updated expectation on Level 2 DSM, we
- 15 don't have a number on the record, and we won't have a
- 16 number on the record with respect to economics,
- 17 assuming Conawapa is built in 2026, correct?
- MR. ED WOJCZYNSKI: We -- we don't
- 19 have a number, and -- and this is an important issue.
- 20 I -- I appreciate that, and you're -- and you're
- 21 trying to have a discussion about here and that -- and
- 22 that's an important discussion to be had. We don't
- 23 know, in terms of Conawapa, we don't have a -- a
- 24 definite landing on what will be in place when we're
- 25 making our decisions on Conawapa.

25

3921 Will we have finalized our negotiations 1 with SaskPower, or GRE, or somebody else such as NSP? We don't know how much of Level 2 DSM will be. We --3 we don't know -- well, the pipeline, though, it would be 2,000 gigawatt hours or more or less, you know, all those other things. So -- so we -- we have a number 7 of possibilities we've raised here with dif -- some different in-service dates with Conawapa and different circumstances that give a range of potential costs. 10 And what we have indicated, if we, 11 let's say, have the additional export contracts, we 12 expect the benefits would increase. So we don't have 13 one (1) final number that we can say, This is it. 14 do not have that, but we have a range of numbers as to 15 what it could be, and a strong indication that the 16 benefits would be, in those scenarios, more higher 17 rather than lower, compared to what we're presenting. 18 MR. ANTOINE HACAULT: So one (1), two 19 (2), three (3), four (4) lines down, we have Plan 14, 20 base DSM. We had an NPV of three-seventy-four (374) 21 if Conawapa was built in 2026. We don't know what the NPV would be Level 2 DSM in construction in 2026, 22 23 which would add about five (5) years of depreciation 24 interest and a host of all other costs.

MR. ED WOJCZYNSKI: If I understand

- 1 your question correctly, so I'll paraphrase it and
- 2 answer the paraphrased question. And -- and then you
- 3 -- if we were to proceed with Level 2 DSM, and the
- 4 pipeline load were to occur, and we had no new export
- 5 contracts of the kind we are talking about, and we
- 6 were to build Conawapa in 2026 in that case, we don't
- 7 have the net present value number for that today, no.
- 8 What I can tell you it would be -- what
- 9 I expect, using judgment from all the work we've done,
- 10 it would be less than the three-seventy-four (374),
- 11 and -- and that is why you see, in that Level 2 DSM
- 12 plan, we have deferred Conawapa to 2031, because
- 13 that's what the economics would tell us to do.
- 14 MR. ANTOINE HACAULT: Thank you.
- 15 Without running the numbers, are you able to tell us
- 16 directionally whether building Conawapa in 2026 -- I'm
- 17 always on the fourth line here, Plan 14, which has the
- 18 different levels of DSM for Plan 14?
- 19 Can you tell us directionally whether
- 20 adding the new depreciation, new interest, and other
- 21 costs related to an early in-service of Conawapa would
- 22 put further pressure on the \$45 million number that we
- 23 see on Level 2? In other words, would it go down
- 24 further from forty-five (45), because of the
- 25 additional costs that are incurred at an earlier date?

- 1 MR. ED WOJCZYNSKI: Directionally, I
- 2 would expect that the \$45 million number would reduce,
- 3 but if you -- you're not looking at the other figures
- 4 that were presented short -- right after this. Those
- 5 numbers would -- would respond differently, and you --
- 6 I -- I don't know what the net of all of that would
- 7 be, but there would be, even with a twenty-six (26)
- 8 Conawapa, in that scenario you just painted, those --
- 9 the -- if -- if you look at the bigger picture, there
- 10 would still be substantial benefits, but our starting
- 11 point always is we start with this corporate analysis,
- 12 and then consider the others as well.
- MR. ANTOINE HACAULT: And thank you
- 14 very much for that answer. The next thing that isn't
- 15 on this table and was in your previous slides, sir, is
- 16 the expected value.
- 17 Remind us again what the expected value
- 18 is and why that number is important.
- 19 MR. ED WOJCZYNSKI: That number is
- 20 important. The expected value -- the -- the -- what
- 21 we have here is the reference scenario, and the
- 22 reference scenario is, I would suggest, a -- a normal
- 23 starting point and the main focus for utilities when
- 24 developing their plans. It's your single best
- 25 estimate of what the future will be. It's the most

- 1 likely possibility.
- 2 And the planning always focusses on
- 3 that, and -- and uses that as the -- as the -- the
- 4 core of our analysis, but there is uncertainty, always
- 5 is uncertainty, always has been. And so we use
- 6 various techniques to deal with that. In -- in the
- 7 NFAT, we've used twenty-seven (27) scenarios, and what
- 8 the expected number is, we take all those twenty-seven
- 9 (27) scenarios and apply probabilities to them,
- 10 including ref/ref/ref, and the expected value takes
- 11 into account the full range of possibilities.
- 12 And -- and that, we don't have that for
- 13 all the updated information, but Ms. Flynn did provide
- 14 an updated expected value analysis and the quilt for
- 15 the new capital costs and for the WPS investment
- 16 removed from the -- from the sale package. So that
- 17 gives a -- a very good indication of what the expected
- 18 value is, but it isn't quite as updated as this
- 19 number.
- 20 MR. ANTOINE HACAULT: And remind me
- 21 where that expected value is -- is found. Is that...?
- MR. ED WOJCZYNSKI: It's one (1) of
- 23 the exhibits provided by Ms. Flynn. I'd have to --
- 24 MR. ANTOINE HACAULT: Recently. Okay.

3925 (BRIEF PAUSE) 1 2 3 MR. ED WOJCZYNSKI: I have a folder with all of those exhibits, and I wasn't actually thinking I'd need them this morning, so I apologize. MR. ANTOINE HACAULT: We can deal with 6 that after lunch because --7 8 MR. ED WOJCZYNSKI: No, that -- I think, given the timing and all that, the -- that 10 would be appreciated. Thank you. 11 MR. ANTOINE HACAULT: Okay. Now, just 12 if we can go to Exhibit 95, page 126? 13 14 (BRIEF PAUSE) 15 MR. ANTOINE HACAULT: That's where we 16 were provided with expected values for -- for some of 17 18 the key plans, and in each case, the expected value is 19 lower than the ref/ref/ref, correct? 20 MR. ED WOJCZYNSKI: Yes. 21 MR. ANTOINE HACAULT: I believe Ms. 22 Ramage may have the document. No. The one (1) thing 23 we don't have, and -- and we've got -- we've looked at 24 -- the latest approach is Plans 5, 6, and 14. 25 Would you be able to provide us with

- 1 the expected values for Plans 5, 6, and 14 to the
- 2 extent that you've done some updates on the
- 3 ref/ref/ref for those plans?
- 4 MR. ED WOJCZYNSKI: I -- I think I
- just heard you ask that, Here are some expected and
- 6 reference values with a -- a capital cost updates, and
- 7 -- but we've only got -- we have five (5) and fourteen
- 8 (14), but not six (6). Could we provide the expected
- 9 -- provide six (6), so we have five (5), six (6), and
- 10 fourteen (14) expected values and ref/ref updated as
- 11 much as possible? If -- if --
- 12 MR. ANTOINE HACAULT: Correct, because
- 13 I'm not going to take you through it again, because
- 14 I've already gone through it, but we've seen in Plan
- 15 14, it went from 1.7 million to the ref/ref/ref in the
- 16 bottom right-hand corner of close to 800 million. It
- 17 was seven ninety-eight (798).
- 18 And then the last sheet that you're
- 19 showing for base DSM, because you've taken out the WPS
- 20 investment, that seven ninety-eight (798) goes down to
- 21 three seven four (374).
- MR. ED WOJCZYNSKI: Yeah. I -- I
- 23 believe we have for Plan 6, but that's in this
- 24 mysterious folder I left upstairs.
- MR. ANTOINE HACAULT: Okay. So I just

3927 wanted to make sure you understood what I was going to be asking when we came back. Now, we've been discussing the 750 line not necessarily being tied 3 into Conawapa. 5 Could we bring up Exhibit 118? 6 (BRIEF PAUSE) 9 MR. ANTOINE HACAULT: This was an update to a slide with respect to residential 10 electricity rates, and in particular, the slide was 11 12 enhanced on a prior -- compared to a prior 13 presentation by adding to the right Minnesota and Wisconsin rates for residential rates, correct? 14 15 MR. ED WOJCZYNSKI: 16 MR. ANTOINE HACAULT: And you'll acknowledge, sir, that there's other views and ways to 17 18 present the rates in Minnesota, for example, not just 19 focussing on residential rates? 20 MR. ED WOJCZYNSKI: 21 MR. ANTOINE HACAULT: Could we go to 22 Volume V of our book of documents at page 188? 23 24 (BRIEF PAUSE) 25

3928 MR. ANTOINE HACAULT: Sir, this is an 1 extract from, as you see at the bottom, Minnesota Power's 2013 Integrated Resource Plan, and there's a 3 highlighted paragraph, which I'll read into the record. 6 "According to 2012 statistics comply 7 -- compiled by the Edison Electric Institute, Minnesota Power's total 9 average retail electric rate of five 10 point nine-seven (5.97) cents per 11 kilowatt hour was the fourth lowest 12 in the US among a hundred and sixty-13 nine (169) providers surveyed. 14 Minnesota Power's retail electric 15 rate was the second lowest in the 16 west/north/central region (average 17 rate seven point eight-seven (7.87) 18 cents per kilowatt hour), and the 19 lowest in Minnesota (average eight 20 point zero-nine (8.09) cents per 21 kilowatt hour)." 22 So Minnesota Power, I would suggest to 23 you, is presenting a different metric for Minnesota as 24 quoted in that last sentence, "At an average of eight point zero-25

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3929
1
                      nine (8.09) cents per kilowatt hour,"
2
                   correct?
3
                   MR. ED WOJCZYNSKI: That -- that's
   correct, but I have to comment that as Mr. Cormie
   testified somewhere in the last four (4) weeks, that
   Minnesota Power has an unusually high proportion of
   their customers' base load industrial related to the -
7
   - essentially, the iron industry.
9
                   And while I'm not especially
   knowledgeable on Minnesota Power, I'm sufficiently
10
11
   knowledgeable of the utility industry that what one
12
    can conclude from that is that just like in other
13
    jurisdictions, when you've got industrial -- a -- a
   high volume industrial load that tends to be flat, in
14
   other words, not peaky, that you have a lower resi --
15
16
    a -- a lower utility rate on the average than you do
   the residentials, and that's the way it should be when
17
18
   you look at cost causation.
19
                   So from Minnesota Power to have
   disproportionally high industrial load of that ilk
21
   would mean they would have their -- their average
22
   utility rate for all customers would be tend to lower
23
    than others, everything else being equal. So it would
24
    -- their number would seem to be low when you use that
25
   kind of a -- an average, but it is -- it is a
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- 1 different metric, taking all the customers, not just
- 2 the residential, yes.
- 3 MR. ANTOINE HACAULT: That's so
- 4 Minnesota Power's metric for all the customers -- and
- 5 thank you for that good explanation -- that's the
- 6 reason why we might see five point nine-seven (5.97)
- 7 cents as opposed to the average for Minnesota, because
- 8 they've got a profile which a -- with a lot of
- 9 industrial customers.
- 10 That's one (1) of the reasons you can
- 11 think of, correct?
- MR. ED WOJCZYNSKI: Yes.
- MR. ANTOINE HACAULT: Yeah. And this
- 14 is the area or the market that will be opened up with
- 15 the 750 megawatt line in a general way that the mark -
- 16 or the area that we've identified in this paragraph,
- 17 sir, correct?
- MR. ED WOJCZYNSKI: Yes.
- 19 MR. ANTOINE HACAULT: The next subject
- 20 area is with respect to the multiple account analysis.
- 21 MR. ED WOJCZYNSKI: A comment on that,
- 22 your last -- your last question in --
- 23 MR. ANTOINE HACAULT: Sir, if it's
- 24 useful for the Board, you're welcome to provide any
- 25 comment that you wish.

- 1 MR. ED WOJCZYNSKI: The -- I'm
- 2 concerned that leaving it just at where it is gives
- 3 the impression that we're selling to somebody who has
- 4 low cost power and -- and that we don't have as much
- 5 market as we might think, and that may not be the
- 6 impression that's there.
- 7 But when a utility is providing to its
- 8 customer base, and they -- their -- their rates that
- 9 they're charging, particularly if you're looking at an
- 10 industrial dominated utility who don't have as much
- 11 customer service and peaking costs, their -- their
- 12 incremental supply costs may be much higher than --
- 13 than what they're charging their customers.
- 14 And so what the resid -- the rate that
- 15 is being charged to their customers is not indicative
- 16 -- not necessarily indicative of what their new supply
- 17 cost or incremental supply cost is. So just as long
- 18 as we are not left with the impression, Well, this is
- 19 the kind of the cost of their supply, and that's what
- 20 we're competing against.
- 21 MR. ANTOINE HACAULT: Thank you for
- 22 that additional information, sir. It wouldn't
- 23 surprise me that the incremental cost is over five
- 24 point nine-seven (5.97) cents, as you've indicated. I
- 25 haven't seen projects come in at that kind of cost

- 1 anywhere.
- 2 With respect to the multiple account
- 3 analysis, the one (1) thing I understand, and it may
- 4 be Dr. Shaffer, is that really, if we did an economic
- 5 picture, we -- we might not stop at the benefits
- 6 within the Manitoba borders. We would probably, if we
- 7 wanted to consider economic benefits as a whole, we'd
- 8 look at the benefits of this project both for our US
- 9 counterpart and other Canadian provinces that might
- 10 benefit from this.
- But your analysis was limited to the
- 12 borders within Manitoba, correct?
- DR. MARVIN SHAFFER: That's correct.
- 14 I -- I did an -- an assessment of the advantages and
- 15 disadvantages from the point of view of Manitoba and
- 16 Manitobans.
- 17 MR. ANTOINE HACAULT: So if we flip
- 18 back in this same book of documents, at page 179, the
- 19 -- and -- and that place is -- is okay at the top of
- 20 the page. The one (1) thing you wouldn't have
- 21 considered is Minnesota Power's view that putting the
- 22 bigger line instead of the three (3) -- 230 kV line,
- 23 is actually a benefit to Minnesota, in its view, of a
- 24 cost reduction of about 10 percent from the
- 25 transmission cost.

3933 That's not something you would have considered? 3 DR. MARVIN SHAFFER: No, that's correct. It wasn't considered. 5 MR. ANTOINE HACAULT: And the other thing that you wouldn't have considered is the -- the next sentence after the reference to the 938 Docket 7 that: 9 "Going forward, Minnesota Power 10 customers will also be responsible 11 for only one-third (1/3) of the 12 maintenance costs of the project. 13 such, the project provides a more 14 cost-effective longer term solution 15 for Minnesota Power ratepayers." 16 That wouldn't be something that you 17 figured into your calculation as far as benefits, 18 correct? 19 DR. MARVIN SHAFFER: That's correct. As -- as I said, this assessment was done from the 21 point of view of Manitoba. 22 MR. ANTOINE HACAULT: And you would 23 agree with me, sir, I believe, based on your comments, 24 that there might be different perspectives in the analysis, depending on whether or not it's a ratepayer

- 1 perspective or a Manitoba taxpayer perspective.
- 2 There may be -- they may be aligned,
- 3 but they may be different, correct?
- DR. MARVIN SHAFFER: That -- that is
- 5 correct.
- 6 MR. ANTOINE HACAULT: Yeah. So that -
- 7 I don't know if my numbers are right. Mr.
- 8 Wojczynski will correct me if I'm wrong, but the large
- 9 industrial load represents pretty close to 25 percent
- 10 of the domestic load, and about 20 percent of Manitoba
- 11 Hydro's domestic revenues.
- 12 Are those numbers in the general bar --
- 13 ballpark, sir?
- MR. ED WOJCZYNSKI: They sound
- 15 reasonable.
- 16 MR. ANTOINE HACAULT: Yeah. If we go
- 17 to Volume VI at -- or Volume V, sorry, page 20, first,
- 18 this is a table that was compiled by InterGroup, not
- 19 by Manitoba Hydro, and the table is compiled from
- 20 Appendix 11.4 of Manitoba Hydro documents.
- 21 Has anybody from Manitoba Hydro had a
- 22 chance to check to see whether the numbers were
- 23 properly transcribed?
- 24 MR. ED WOJCZYNSKI: The previous
- 25 panel, the financial panel, that -- that was -- if --

25

take this in little bites.

3935 if I'm mis -- am I correct in -- in recalling that Book V was the one that was provided to the previous panel? 3 MR. ANTOINE HACAULT: Yeah, the -what I want to refer yet is to the bottom number. So before --7 MR. ED WOJCZYNSKI: Yeah. MR. ANTOINE HACAULT: -- referring to 9 it, I'd --10 MR. ED WOJCZYNSKI: Yeah, I -- I -you were just asking if -- if someone in Manitoba 11 Hydro checked that these were reasonable. The previ -13 - someone -- I expect someone in the previous panel checked that, but they're not here, so we'll -- I 14 15 think we'll have to just take that subject to check at 16 this point, because they're not --17 MR. ANTOINE HACAULT: That's -- that's 18 19 MR. ED WOJCZYNSKI: -- they're not on 20 this panel. 21 MR. ANTOINE HACAULT: -- perfectly 22 acceptable, sir. Thank you very much. If we can go 23 to the bottom right-hand corner of the table, we'll

Plan 14 ref/ref/high reflects pretty

- 1 closely the new capital costs estimates of Manitoba
- 2 Hydro for Conawapa and Keeyask, correct?
- MR. ED WOJCZYNSKI: Yes.
- 4 MR. ANTOINE HACAULT: And if we take a
- 5 cumulative difference between the two (2) tables, the
- 6 -- of Plan 1 All Gas at ref/ref/ref to this new
- 7 scenario with high capital costs, over the twenty (20)
- 8 years, we get a cumulative total about -- about \$3.7
- 9 billion, correct?
- 10 MR. ED WOJCZYNSKI: Subject to check,
- 11 but it looks reasonable.
- 12 MR. ANTOINE HACAULT: So that in this
- 13 gas plan, in addition, we have, I believe the number
- 14 was about \$1.4 billion of sunk costs that get written
- 15 off over eighteen (18) years, correct, in the All Gas
- 16 Plan?
- MR. ED WOJCZYNSKI: Yes.
- 18 MR. ANTOINE HACAULT: So that -- and
- 19 the financial panel indicated that that was an
- 20 assumption, but in the real world, those deductions
- 21 might not necessarily occur, depending on whether or
- 22 not it was thought reasonably that Conawapa or Keeyask
- 23 would still go ahead, correct?
- 24 MR. ED WOJCZYNSKI: That's correct,
- 25 and that would be a -- a -- in a sense, a different

- 1 plan. It wouldn't be an All Gas Plan, it would be a
- 2 subset that says, We start with gas and we add the due
- 3 gas or hydro later on, and -- and that would -- so
- 4 under that plan, you -- you wouldn't have as many sunk
- 5 costs. Although, eventually, if you never built
- 6 Conawapa or Keeyask, you would -- you would ultimately
- 7 have those costs written off.
- 8 MR. ANTOINE HACAULT: Yes, and if we
- 9 can keep that -- those two (2) numbers in mind, the
- 10 1.4 billion, plus the three point seven (3.7), which
- 11 is a little bit over \$5.1 billion, and flip back to
- 12 sli -- Exhibit 129-7, I believe page 4. Now, on this
- 13 graph, which as presented this week, there was added
- 14 the light blue numbers with respect to the return on
- 15 equity imbedded in, I'll call it, WACC.
- 16 Is that correct?
- MR. ED WOJCZYNSKI: Yes.
- MR. ANTOINE HACAULT: And the -- we
- 19 just saw that ratepayers will pay about \$3.7 billion
- 20 in extra rates over twenty (20) years, and when we
- 21 look at the light blue, the green, and the red, the
- 22 total net president -- present value dollars for -- it
- 23 says Plan 14, but's Conawapa and thirty-one (31), it
- 24 would be \$3.7 billion, basically equivalent to what
- 25 ratepayers are paying in additional rates, correct?

- 1 MR. ED WOJCZYNSKI: Yes.
- MR. ANTOINE HACAULT: And, Dr.
- 3 Shaffer, if the industrials, ten (10) of which I
- 4 represent --
- 5 MR. ED WOJCZYNSKI: Can -- can we --
- 6 can we just -- I -- it sounds like I was hesitating
- 7 there, and I said, "Yes," but it sounds like that may
- 8 be premature. Could I just have a moment to
- 9 contemplate that?
- MR. ANTOINE HACAULT: Sure.
- DR. MARVIN SHAFFER: If I could just
- 12 comment just on the number. The -- the numbers aren't
- 13 comparable.
- 14 MR. ANTOINE HACAULT: Because one's
- 15 (1) net present value and the other one isn't?
- 16 DR. MARVIN SHAFFER: One (1) is real
- 17 dollars net present value and the other is nominal
- 18 cumulative undiscounted, but just -- just to be clear
- 19 on that.
- 20 MR. ANTOINE HACAULT: And -- and I was
- 21 keeping in mind that the -- if you had net present
- 22 value, and I didn't do it, the \$5.1 billion that --
- 23 being the two (2) numbers, sir, I'm not so sure we
- 24 would be far off the \$3.7 billion net present value.
- 25 That's about 60 percent of the amount on a twenty (20)

- 1 year time period.
- 2 DR. MARVIN SHAFFER: I -- I haven't
- 3 done that calculation.
- 4 MR. ANTOINE HACAULT: Okay.
- 5 DR. MARVIN SHAFFER: I -- I would also
- 6 point out, though, as I understand, these
- 7 calculations, these aren't the -- from the multiple
- 8 account, but they relate, in some respects, to it.
- 9 These would be NPVs over the planning period as
- 10 opposed to 2032.
- MR. ANTOINE HACAULT: Well, I'll
- 12 perhaps let Mr. Wojczynski continue to consult, and --
- 13 and maybe it might be appropriate to take a break,
- 14 because if -- in fairness to Mr. Wojczynski, so he can
- 15 provide a -- a better answer to whether or not, if we
- 16 look at the total of \$5.1 billion of paying for sunk
- 17 costs, plus the \$3.7 billion of increased rates,
- 18 whether that comes out pretty closely to the \$3.7
- 19 billion net present value shown on slide 4 of his
- 20 presentation.
- 21 MR. ED WOJCZYNSKI: Yeah, I -- I think
- 22 we would appreciate... What we're doing is taking
- 23 different calculations from a financial analysis and
- 24 consumers revenue, and then comparing it to NPV,
- 25 including transfers to the province, and we are

3940 dealing with different spaces and metrics, and then comparing them. And the numbers are the same, but whether they're truly comparable, I'd have to do some 3 mental gymnastics to figure that one out. 5 And so it would be better to be able to do that over -- over a cup of tea. 7 THE CHAIRPERSON: Mr. Wojczynski, would you -- three-quarters of an hour do it to -- to answer that? 10 MR. ED WOJCZYNSKI: Yes. 11 THE CHAIRPERSON: Okay. So let's take a -- a forty-five (45) minute recess to have lunch, 13 and then we'll see each other again at quarter to 14 1:00. 15 16 --- Upon recessing at 12:03 p.m. --- Upon resuming at 12:51 p.m. 17 18 19 THE CHAIRPERSON: Good afternoon. believe that we're ready to resume the proceedings. 21 And I imagine, Mr. Wojczynski, you have some things to 22 say to us? 23 MR. ED WOJCZYNSKI: I'm still drinking 24 my cup of tea but I'll proceed.

3941 1 (BRIEF PAUSE) 2 3 MR. DOUGLAS BEDFORD: Before we hear from Mr. Wojczynski again, Mr. Page has a more thorough answer to the inquiry that was made regarding our First Nation partners, and if one or the other of 7 them chose to hold their investment in the Keeyask Hydro Power Limited Partnership as a preferred investment, how does one, if one wishes, to change 10 that to a common equity investment. 11 So we'll turn it over to Mr. Page to provide a more thorough answer. 13 MR. IAN PAGE: I'll try to be thorough 14 without being overly detailed or complicated. It --15 it's a very complicated arrangement as under the 16 Manitoba Hydro Act we're not allowed to sell shares in 17 an asset that -- that's existing, so all these shares 18 have to be in place before -- before the project is 19 completed. 20 One of the class of shares is 21 effectively an option and -- so if a -- one of the 22 Keeyask First Nations or -- or all of them elect to go 23 preferred, the maximum equity available under the 24 preferred option is 2 1/2 percent. The maximum equity available under the common option, if it's elected

- 1 initially, is 25 percent.
- 2 If the preferred option is undertaken
- 3 initially, the -- there's not a strict conversion
- 4 available but what there's -- there's sort of option
- 5 types of instruments can be -- can be exercised at --
- 6 at year ten (10), and then every year -- and then
- 7 every five (5) years after that. They can be -- they
- 8 can be activated and by activating them, there's a
- 9 limit of -- of those.
- 10 So the -- so if the preferred options
- 11 was undertaken initially, and then that -- all of
- 12 those options were exercised, the maximum available to
- 13 the KCN would be -- that -- that initial 2 1/2 percent
- 14 preferred, plus 7 1/2 percent of under common -- or
- 15 under that -- under those options. So there would be
- 16 a total ownership of 10 percent, not -- so it's not a
- 17 full -- full conversion to a common, but it's -- it's
- 18 sort of a halfway.

- 20 CONTINUED BY MR. ANTOINE HACAULT:
- 21 MR. ANTOINE HACAULT: I think Mr.
- 22 Wojczynski was going to do his best to try and provide
- 23 an oral explanation. And if it becomes too confusing
- 24 or complicated I'd suggested that perhaps it be done
- 25 in writing so we don't spend too much time.

- 1 MR. ED WOJCZYNSKI: Yes. First of
- 2 all, I had indicated that in my -- my -- there was
- 3 exhibit that had Plan 6EV reference. And -- and I do
- 4 have my folder with those exhibits. It turns out that
- 5 one is on the verge of being provided. And Ms. Flynn
- 6 tells me that we -- we are just finalizing it. We'll
- 7 check it tonight and be submitting it tomorrow morning
- 8 at nine o'clock, at the opening. So we -- you will
- 9 have that at that time.
- 10 Secondly, coming into the question that
- 11 is outstanding that I needed a cup of tea for, there's
- 12 a few -- there's a couple of steps in that question.
- 13 And I -- and so I think if I could say a few things.
- 14 And then I suggest the question be re-asked to just
- 15 carry us forward.
- 16 The -- the first question that I got
- 17 asked that I said, "No" -- pardon me, that I said,
- 18 "Yes," when I said, "Does that three point seven (3.7)
- 19 equal that other three point seven (3.7)." And I
- 20 said, "Yes." And then I said, "Well, I should think
- 21 about it some more."
- I -- if I go -- when I went back to
- 23 look at page 20 of MIPUG book, Exhibit 20-5, so
- 24 that's, yes, that one, the three seven five one
- 25 (3,751), which was what I was being asked to compare

- 1 to the three point seven (3.7) on the other page -- on
- 2 the other exhibit, when I was looking at this I was
- 3 assuming that the three seven five one (3,751) was a
- 4 net present value but it's not. It's a -- it's a
- 5 simple sum of all the nominal dollars there.
- And so you -- it's not equal because
- 7 you'd have -- you have to -- you can't compare a
- 8 simple sum of nominal dollars to a net present value.
- 9 So what -- we had one of our faster and smarter
- 10 colleagues than me do over lunch was a quick MPV using
- 11 the appropriate discount rate, and what we got was
- 12 \$2.260 billion.
- 13 MR. ANTOINE HACAULT: What was the
- 14 discount rate?
- MR. ED WOJCZYNSKI: Okay, we use 4
- 16 percent. And let me explain why we use 4 percent.
- 17 Because we are also conversant now with discount
- 18 rates.
- 19 First of all, as you'll recall when
- 20 Manitoba Hydro did the cumulative general consumer
- 21 revenue, which is what I thought we were doing here,
- 22 we used 1.86 percent, but that was because we were
- 23 using a real flow of general consumers revenue. This
- 24 table is still a nominal dollars.
- So you take 1.86 percent and bring back

- 1 in the inflation rate of 2 percent, which brings you
- 2 to 4 percent. And so we use 4 percent to discount
- 3 this general consumers revenue. And what you get in
- 4 2014, 2 -- \$2.26 billion. So now we have something
- 5 that is at least in a similar metric to -- if we go to
- 6 the figure who -- that -- this one. Thank you very
- 7 much. She's -- she's faster than I am.
- 8 In here now at least we're on the same
- 9 metric of NPV 2014 dollars. So now if I try and
- 10 answer the question, Are those numbers equal, so now
- 11 we've got a 2.2 billion -- or I'll call it \$2.3
- 12 billion number. And what that is really comparable
- 13 to, to some degree, is the lightened blue stuff.
- 14 Both in those general consumer revenues
- 15 numbers and in this exhibit here, what they are is the
- 16 cost to Manitoba Hydro or the cost to the ratepayers.
- 17 And in both of those cases, we consider the transfers
- 18 to the province as a cost. So the 2.2 billion is --
- 19 is somewhat comparable to the light blue and the dark
- 20 blue numbers. But the remaining difference, really,
- 21 is the -- the \$2.2 billion for general consumer
- 22 revenues only the first twenty (20) years. And this
- 23 number -- these numbers in this exhibit, the light
- 24 blue and dark blue are over the life of the projects.
- 25 And so my last comment on this, to

- 1 answer the question, is that if you took the general
- 2 consumers revenue and went over the -- over the -- to
- 3 the end of the study period, or the end of the life of
- 4 the projects, you would get a negative number, because
- 5 the -- the PV, or the general consumers revenue, I
- 6 don't know what it would be, it would be -- it would
- 7 be flipped and you'd get the Preferred Plan having
- 8 lower general consumers revenue than the All Gas.
- 9 But in the first twenty (20) period --
- 10 twenty (20) year period of time the consumers revenue
- 11 would be higher by say that 2.2 billion. And that's -
- 12 so there's a degree of comparability to these
- 13 numbers, but not fully comparable. So that's the
- 14 answer to that first question.
- MR. ANTOINE HACAULT: Thank you for
- 16 that explanation. So to try and be comparable what
- 17 we'd have to do is we'd have to look at the NPV with
- 18 these numbers at a 4 percent calculation over twenty
- 19 (20) years and then we'd have comparable metrics?
- 20 MR. ED WOJCZYNSKI: Well, you can't
- 21 really do a -- a 4 per -- you can't -- are you talking
- 22 -- four (4) peop -- sorry, calculating an NPV at 4
- 23 percent of which numbers; you mean of the economic
- 24 numbers?
- MR. ANTOINE HACAULT: You've pointed

- 1 out, if I take it in small bites, that consumers will
- 2 pay \$3.7 billion over twenty (20) years. And if you
- 3 value that money, that's how I look at it, at 4
- 4 percent, really they're out of pocket 2.26, because if
- 5 they had 2.26 today and they invested it at 4 percent
- 6 over that time period they'd have a full amount of
- 7 3.7. Am I getting the math so far?
- 8 MR. ED WOJCZYNSKI: Yes. Let's --
- 9 I'll just say yes. Let's not be too precise about
- 10 things.
- MR. ANTOINE HACAULT: Yep.
- MR. ED WOJCZYNSKI: Yes.
- 13 MR. ANTOINE HACAULT: And what's been
- 14 done in the table that we're looking at, which is
- 15 slide 4 of -- the last part of the exhibit. I think
- 16 it's 129-7, is we actually capture some numbers after
- 17 the twenty (20) year time period, because we've valued
- 18 over the whole life of the plant which is sixty-seven
- 19 (67) years, correct?
- 20 MR. ED WOJCZYNSKI: The -- the project
- 21 is sixty-seven (67), but because the projects don't
- 22 come in for many years it's seventy-eight (78) years,
- 23 but yes.
- 24 MR. ANTOINE HACAULT: So it takes
- 25 seventy-eight (78) years at this discount rate, which

3948 is four point six five (4.65), to arrive at these numbers on the slide of --3 MR. ED WOJCZYNSKI: Yes. MR. ANTOINE HACAULT: -- 1 billion 56 and 1 billion 236, correct? 6 MR. ED WOJCZYNSKI: Yes. MR. ANTOINE HACAULT: And -- thank 7 you. I -- I think it puts things in perspective. 9 So if -- if I was right in my general numbers that the ten (10) industrials customers that 10 11 form part of MIPUG are about 20 percent of the revenue, net present value of their investment in Plan 12 13 14 would be 20 percent of the two point two six (2.26), which would be about \$500 million? 14 MR. ED WOJCZYNSKI: I -- I -- the word 15 "investment" -- I'm not sure I would use the word 16 "investment," but their share -- keep -- keeping those 17 18 ratios constant, their share of the increased 19 consumers revenue would be numbers something like 20 that, yes. 21 MR. ANTOINE HACAULT: And the numbers before, assigning a 4 percent value to their money is 22 23 \$3.75 billion that they won't have available for other 24 projects. It'll be put into rates, but only -- well,

their money is 20 percent of that number, correct?

- THE CHAIRPERSON: You know, I'm sorry,
- 2 you'd have to narrow out the export revenue from that
- 3 though. I mean, the -- correct me if I'm wrong, but
- 4 the -- we are talking about 2.7 billion attributable
- 5 to rates, aren't we?

- 7 CONTINUED BY MR. ANTOINE HACAULT:
- MR. ANTOINE HACAULT: That's
- 9 incremental rates. We can look at that -- the sheet
- 10 and how that was calculated in -- in the number, but
- 11 as I understand it, it's incremental domestic rates
- 12 that are increased by \$3.75 billion.
- 13 MR. ED WOJCZYNSKI: Yes. The \$3.75
- 14 billion in -- in general consumers revenue is
- 15 incremental from the All Gas Plan to the Preferred
- 16 Plan, and that accounts for the additional export
- 17 revenues in that time period. I would like to just
- 18 caution, though, that the 3.75 billion -- first of
- 19 all, it is in nominal dollars and all that, so you
- 20 can't really compare to the NPV.
- 21 But I think, more importantly, is what
- 22 Mr. Rainkie and -- and Ms. Carriere had indicated, and
- 23 there was discussion on the record here, Mr. Chair and
- 24 panel, that -- that in real life there would be a
- 25 smoothing of rates and you would not see such a high

- 1 number over a twenty (20) year period of time. That
- 2 there -- that we would not have this big increase and
- 3 then a big drop three (3) years later. That there
- 4 would be a smoothing of those rate increases and you
- 5 wouldn't see such a peak as we are talking about so
- 6 far, but -- but that -- that -- right now what we have
- 7 are these numbers.
- 8 MR. ANTOINE HACAULT: I think to best
- 9 answer the Chairperson's question, if we could go to
- 10 page 28 of our book of documents, and on the left-hand
- 11 -- so this is the economics for the Preferred
- 12 Development Plan ref/ref, and then high capital costs.
- 13 Let's break it down in little chunks.
- 14 The revenues are broken down between --
- 15 on the revenue side additional general consumers
- 16 revenue, correct? It's Volume V of our book of
- 17 documents.

18

19 (BRIEF PAUSE)

- 21 MR. ED WOJCZYNSKI: Could you repeat
- 22 the question, please?
- 23 MR. ANTOINE HACAULT: I understood the
- 24 Chairman's question to wonder whether or not the \$3.7
- 25 billion included extraprovincial revenue, and I

- 1 brought up from our book of documents page 28 to show
- 2 at least my understanding of how Manitoba Hydro has
- 3 aggregated numbers.
- 4 And it first had the general consumes
- 5 revenue at approved rates. That's domestic revenues,
- 6 correct?
- 7 MR. ED WOJCZYNSKI: Yes.
- 8 MR. ANTOINE HACAULT: And then there
- 9 was a further line called, "Additional general
- 10 consumers revenue?"
- MR. ED WOJCZYNSKI: Yes.
- MR. ANTOINE HACAULT: And then finally
- 13 there's a separate line for extraprovincial revenue,
- 14 and we see those revenues start in 2013 at 357
- 15 million, and this scenario assumes by 2027 we'll be
- 16 just over a billion dollars of additional revenue from
- 17 exports, correct?
- MR. ED WOJCZYNSKI: Yes.
- 19 MR. ANTOINE HACAULT: So that the
- 20 table took all the numbers from the line that says,
- 21 "Additional general consumers revenue," if we want to
- 22 match them for the ref/ref/high on Plan 14, correct?
- MR. ED WOJCZYNSKI: Yes.
- 24 MR. ANTOINE HACAULT: And then it
- 25 compared that to, and if we flip to page 21, this is

- 1 the All Gas Plan ref/ref/ref, and there's under the
- 2 revenue heading additional consumers revenue, correct?
- MR. ED WOJCZYNSKI: Yes.
- 4 MR. ANTOINE HACAULT: And the
- 5 difference between the additional revenues in one plan
- 6 and the other one, the total was \$3.751 billion,
- 7 correct?
- 8 MR. ED WOJCZYNSKI: Yes. And just
- 9 I'll -- it also includes the water rentals and capital
- 10 tax, and the debt guarantee fee is also being paid in
- 11 both cases. So the \$3.75 billion at that point --
- 12 because we are having rate increases still at that
- 13 point, that actually does include from the water
- 14 rental the -- the ratepayers contributing to the
- 15 increased water rentals and capital tax, yes.
- 16 MR. ANTOINE HACAULT: So I believe --
- 17 MR. ED WOJCZYNSKI: As you're only at
- 18 the twenty (20) year period, not at the life of the
- 19 project.
- 20 MR. ANTOINE HACAULT: I understand
- 21 we're not doing a metric of the entire project. I
- 22 guess the issue I was exploring was, and when I had
- 23 started this, is that there might a different view
- 24 between the ratepayers and Manitoba taxpayers,
- 25 generally, if you have a group of ten (10) companies

- 1 paying 20 percent of this \$3.751 billion as compared
- 2 to all Manitobans paying 20 percent of that number.
- 3 Would that be right, Dr. Shaffer? They
- 4 might have different views?
- DR. MARVIN SHAFFER: They might have
- 6 different views, correct.
- 7 MR. ANTOINE HACAULT: Okay. You have
- 8 to put your mic on, I think.
- 9 DR. MARVIN SHAFFER: Yes.
- 10 MR. ANTOINE HACAULT: The next area
- 11 that I want to explore is the allocation of government
- 12 benefits. There was some questions of the panel on
- 13 that. And the documents that I've included in Volume
- 14 VI of our book of documents provides some history on -
- 15 on how those were treated.
- 16 And if we can start, firstly, at page
- 17 31 of our book of documents. This is an extract. And
- 18 you would have been around in or about that time, Mr.
- 19 Wojczynski, in 1996?
- 20 MR. ED WOJCZYNSKI: I -- I had been a
- 21 witness at PUB around that timeframe and earlier. I
- 22 can't remember if that year I was.
- 23 MR. ANTOINE HACAULT: And if we go
- 24 down to Section 3.3.3 of the PUB's decision, does this
- 25 assist in having you recollect that the provincial

3954 guarantee fee was actually at .5 percent at that time instead of 1 percent? 3 MR. ED WOJCZYNSKI: Yes, I recollect it was lower. And -- and this tells me what the number was, yes. 6 MR. ANTOINE HACAULT: And the statement of the PUB at that time, if I'm looking in the first full paragraph, fourth line in, was, and I'm 9 quoting: 10 "The level of the fee is set as a 11 matter of government policy and there 12 is no negotiation between the 13 province and Hydro associated with 14 the fee. Hydro has no control with 15 regard to the payment of the fee." 16 Does that continue to be the case today? 17 18 MR. ED WOJCZYNSKI: Yes. 19 MR. ANTOINE HACAULT: And rather than go into different subject matters and go through all the guarantee fee information, and then water rentals, 21 22 et cetera, water rental rates, sir, sometimes were 23 frozen and sometimes increased over time. 24 Is that a fair statement? 25 MR. ED WOJCZYNSKI: Yes.

3955 MR. ANTOINE HACAULT: 1 And if we go to the next page of our book of documents, page 32. Another area of payments to the government, I would 3 suggest, is the corporate capital tax. And like everybody else, at one point in time, governments didn't tax and, in this particular case, didn't tax Manitoba Hydro under the Corporation's capital tax, 7 correct? 9 MR. ED WOJCZYNSKI: Correct. 10 MR. ANTOINE HACAULT: And that has now 11 changed where Manitoba Hydro is now subject to 12 corporate capital tax, correct? 13 MR. ED WOJCZYNSKI: Yes. And what --14 this suggests it started in 1994. 15 MR. ANTOINE HACAULT: And if we go to 16 page 34, at the bottom of the page we see a paragraph that starts with, "The Board is cognizant." And I 17 18 direct everybody's attention to the last full sentence 19 of that paragraph, and I'm quoting it. 20 "The Board encourages Hydro to 21 continue in its attempt to strengthen its financial provision -- position 22 23 through improving its operational 24 efficiency and cost control and 25 this is the part I want to draw your

	3956
1	attention to] notes that the
2	Provincial Government, as a major
3	shareholder, has an important role to
4	play in this effort."
5	And later on in this decision, on page
6	35, the third recommendation to Manitoba Hydro was to:
7	"Aggressively management its payment
8	obligations to the Provincial
9	Government."
10	And do you see that?
11	MR. ED WOJCZYNSKI: I see that. And I
12	at this instant Mr. Page might be able to answer
13	better than me. I don't know what that means.
14	MR. ANTOINE HACAULT: But in any
15	event, whatever it meant and whatever Hydro did as a
16	consequence, we're left with three (3) things today:
17	water rate rentals
18	
19	(BRIEF PAUSE)
20	
21	MR. ED WOJCZYNSKI: Okay, I'm ready
22	for your next question.
23	MR. ANTOINE HACAULT: Thank you very
24	much. I was about to suggest whatever the meaning of
25	that third recommendation was and whatever Hydro's

- 1 efforts were, we nonetheless find ourselves in a
- 2 position where today Manitoba Hydro has to pay the
- 3 water rentals, the capital tax, and what we're been
- 4 referring to as an interest guarantee fee, correct?
- 5 MR. ED WOJCZYNSKI: Yes.
- 6 MR. ANTOINE HACAULT: The next area
- 7 that I want to focus on is water rental rates and how
- 8 they have been treated in the past, and whether or not
- 9 there might be some pressure on rates as a result of
- 10 water rental fees.
- So, firstly, if I could direct your
- 12 attention to page 11 of this same book of documents.
- 13 This was a table prepared in response to CAC Round 1,
- 14 question 122, to Manitoba Hydro.
- Sir, is it fair to say that although
- 16 the rates increased back in 2001/2002, they're not --
- 17 have not been any further rate increases to date?
- MR. ED WOJCZYNSKI: Yes.
- 19 MR. ANTOINE HACAULT: And previously,
- 20 prior to, I quess, about the doubling in 2001/2002,
- 21 the rate was at 9.9 per horsepower year generated,
- 22 correct?
- MR. ED WOJCZYNSKI: Yes.
- 24 MR. ANTOINE HACAULT: Now, does
- 25 Manitoba Hydro have any assurances that Manitoba

- 1 government's going to keep this 20.32 rate flat for
- 2 the entire period in which the numbers are being
- 3 generated?
- 4 MR. ED WOJCZYNSKI: To the -- to the
- 5 best of my knowledge, there is no assurance of that.
- 6 We have no indication that they're going to increase
- 7 and we have no indication they're going to -- to --
- 8 like, we have no -- no commitment that they're not
- 9 going to increase and no commitment they're going to
- 10 stay the same or no commitment that they're going to
- 11 reduce.
- 12 MR. ANTOINE HACAULT: So that's one of
- 13 those uncertainties that we have over the life of the
- 14 plant. We don't know over the next sixty-seven (67)
- 15 years whether or not the rate is going to continue to
- 16 stay at 20.32, which, by that time, it would have
- 17 significantly deteriorated in net affected dollars,
- 18 correct?
- 19 MR. ED WOJCZYNSKI: Yes. But like I
- 20 said, they could go in any one (1) of three (3)
- 21 directions: sideways, up or down.
- MR. ANTOINE HACAULT: Now, if we see
- 23 how the economic analysis in previous hearings dealt
- 24 with the water rates, it might help to move to page 3
- 25 of our book of documents, line 25.

1 As I understand it, in the Wuskwatim

- 2 Hearing, March 2 of 2004, there had been an
- 3 Undertaking to provide the history of water rental
- 4 rates, and then there was a series of questions that
- 5 followed, and Mr. Abra was asking questions, and Mr.
- 6 Wojczynski, you answered at lines 6 to 8 with respect
- 7 to what Hydro did in its economic evaluations.
- 8 Do you believe that this reference in
- 9 the transcript is correct, that when you did the
- 10 Wuskwatim analysis on economic evaluations, you
- 11 assumed that the rates would go up with the rate of
- 12 inflation?
- 13 MR. ED WOJCZYNSKI: Yes. I -- first
- 14 of all, I actually remember that testimony. Secondly,
- 15 that was accurate, that testimony.
- 16 MR. ANTOINE HACAULT: The -- with
- 17 respect to the economic analysis in this proceeding,
- 18 sir, has Manitoba Hydro increased water rates and
- 19 assumed that they go up with inflation?
- 20 MR. ED WOJCZYNSKI: We continue in the
- 21 financial analysis to assume that they remain constant
- 22 nominal dollars, or that is, that they stay the same.
- 23 They don't change in nominal dollars. In the economic
- 24 evaluation, we assume for the detailed study period
- 25 that they also stay constant in nominal dollars, which

3960 means, in real dollars, they decline. 2 But at the end of the study period for the very long term, we assume that at some point they 3 will escalate, and so at that point, we have the water rental rate escalate at that point with inflation. 6 MR. ANTOINE HACAULT: Okay. I want to try and understand what you've just said, sir. If we 7 go to page 37 of this book of documents.... 9 10 (BRIEF PAUSE) 11 12 MR. ANTOINE HACAULT: Well, this is a 13 table prepared by InterGroup Consultants as indicated 14 to the top right-hand corner. 15 16 (BRIEF PAUSE) 17 18 MR. ANTOINE HACAULT: You -- if we 19 flip to the next page, page 38 at the top, we see that the rate, and my understanding is this is taken 21 directly from your tables -- Hydro's tables, stays consistent at 72.72 percent in the middle column. Do 22 23 you see that? 24 MR. ED WOJCZYNSKI: Yes, and -- and 25 that's in real dollars, if I'm -- I'm understanding

3961 this properly. MR. ANTOINE HACAULT: These are taken 2 directly from your -- your tables, sir. 3 4 5 (BRIEF PAUSE) 6 7 MR. ANTOINE HACAULT: If we flip back 8 -- no, sorry... 9 10 (BRIEF PAUSE) 11 MR. ED WOJCZYNSKI: Just to make sure 12 13 I -- I didn't use the wrong words, beyond the thirty-14 five (35) years, we -- we, in the economics, escalated 15 the water rental in nominal dollars, and kept it 16 constant in real dollars, and if that isn't what I said before, that's what I meant to say. 17 18 19 (BRIEF PAUSE) 20 21 MR. ED WOJCZYNSKI: Coming back to 22 page 38. Okay, so we're back to page 38. 23 MR. ANTOINE HACAULT: Yes, and I guess 24 with respect to this table, has anybody had a chance 25 to see whether the numbers have been tra --

- 1 transcribed properly and whether the -- the math was
- 2 applied properly?
- 3 MR. ED WOJCZYNSKI: I'll take that,
- 4 subject to check.
- 5 MR. ANTOINE HACAULT: Okay. And the
- 6 plans without the inflation factor show a certain
- 7 difference, but if we add 1.9 percent inflation after
- 8 the thirty-five (35) year time period, so for the rest
- 9 of the project's life, do you agree that we get the
- 10 present value, and this is under the old numbers, for
- 11 the Preferred Plan, and this is at the bottom of page
- 12 38, the centre column, 766.42 million?
- 13 Is the math right, sub --
- 14 MR. ED WOJCZYNSKI: Subject to check,
- 15 yes.
- 16 MR. ANTOINE HACAULT: Okay. And if we
- 17 apply the inflation to the All Gas Plan, which is Plan
- 18 1, where presumably, you're not adding new hydro,
- 19 correct?
- 20 MR. ED WOJCZYNSKI: Correct.
- 21 MR. ANTOINE HACAULT: The effect of
- 22 increasing the water rentals for the existing
- 23 hydraulic energy brings us to a total of \$589.83
- 24 million present value calculated at 5.05 percent,
- 25 correct?

3963 1 MR. ED WOJCZYNSKI: Subject to check, 2 yeah. 3 MR. ANTOINE HACAULT: So I would suggest to you that the change in methodology from Wuskwatim to this hearing by removing the effect of inflation for the balance of the term after thirty-7 five (35) years is in the \$177 million range, net present value at 5.05 percent? 9 10 (BRIEF PAUSE) 11 12 MR. ANTOINE HACAULT: Sorry, the 13 hundred and seventy-seven (177), just to be clear, would be taking the seven six six point four-two 14 15 (766.42) number in the middle column at the bottom and 16 subtracting from that the five point eight-nine-eight-17 three (5.8983) number. 18 MR. ED WOJCZYNSKI: Yeah. No, I -- I 19 understood that. I'm -- what I'm struggling with a little bit is -- and perhaps you can help me interpret 21 the chart prepared by InterGroup. If we go to -- if 22 we can -- can we go back to the -- to the beginning of 23 -- or page 37? So are you -- is this chart -- I -- I 24 quess I'm not supposed to ask MIPUG questions. 25

3964 1 (BRIEF PAUSE) 2 3 MR. ED WOJCZYNSKI: So I'm -- if I go back and try and understand what's in here, I think -okay, I -- I -- subject to check, my understanding what you've done here is that you have taken what we had done in the economic evaluation for Plan 14 and 7 Plan 1, and then said, If we had applied 1.9 percent inflation for -- in Plan 14 and Plan 1, then the increased water rental cost would have been the 10 11 numbers that are in the second column of each set that 12 starts as zero, and then the first number is three 13 point nine-five (3.95), and it goes on. 14 And then I think what you're saying is 15 that the water rental is a hundred and -- if you go to Plan 14, in 2014, it's 102.98 million, but if we'd 16 17 applied inflation of one point nine (1.9), there would 18 have been an additional 3.95 million because of two 19 (2) years inflation, and so that's the incremental due to in -- the extra inflation. 21 And then you've carried that through 22 all the way down to the very end. So now -- now I 23 have -- now that I've had more chance to look at this, 24 I -- I -- that's my understanding, and yes, we would get -- subject to check on the calculations, that

- 1 would be the difference you'd get if you applied
- 2 inflation all the way through.
- 3 DR. MARVIN SHAFFER: Could I make one
- 4 (1) comment here, too? When you refer to the word
- 5 'economics,' you're clearing referring to the -- the -
- 6 the economics from the point of view of Manitoba
- 7 Hydro in isolation of the Government.
- In the -- in the benefit cost analysis,
- 9 whatever additional royalties government may want to
- 10 collect by increasing the rate at the rate of
- 11 inflation, or whatever it -- it decides to do.
- 12 Whether it increases or de -- decreases, it would
- 13 correspondingly affect the net benefit on the
- 14 government account. So there would be no change to
- 15 the overall net benefit -- the monetised net benefit
- 16 that we talked about yesterday.
- 17 Because this is -- clearly would be a
- 18 transfer to government. In other words, there would
- 19 be an additional cost borne by Manitoba Hydro, and
- 20 that would be offset by an additional benefit
- 21 occurring to government and to taxpayers. So the net
- 22 effect would be zero, at least from the broader
- 23 provincial perspective.
- 24 MR. ED WOJCZYNSKI: Subject to check
- 25 on the calculations, I -- I think those numbers are

comment.

3966 reasonable, and I fully agree with Dr. Shaffer's

- 3 MR. ANTOINE HACAULT: So --
- 4 MR. ED WOJCZYNSKI: If he hadn't said
- 5 it, I would have.
- 6 MR. ANTOINE HACAULT: The numbers in
- 7 the economic evaluation, if they were -- I'll -- I'll
- 8 leave it and InterGroup can deal with it. I just
- 9 wanted to see the difference in methodology as to what
- 10 it gave us as far as a result.
- 11 THE CHAIRPERSON: Dr. Shaffer, are you
- 12 in a -- a position to comment on the -- the multiplier
- 13 effect from a dollar spent by the taxpayer versus a
- 14 dollar spent by the government -- Manitoba Government?
- DR. MARVIN SHAFFER: If I was looking
- 16 at multiplier effects, and you're talking about the --
- 17 the direct/indirect analysis referred to yesterday, it
- 18 would depend on -- on what government was spending
- 19 that dollar on versus what a -- a sort of a typical
- 20 incremental spending of a dollar by a customer would
- 21 be.
- 22 Subject to more detailed information, I
- 23 -- I think it would be broadly similar.
- 24 It could be -- just -- just on
- 25 reflection, it's not related to the analysis I did,

- 1 but it could be that a government expenditure would
- 2 more targeted within the economy, whereas a -- a
- 3 dollar that -- that a household might spend would
- 4 include a broader basket of -- of imported goods.
- 5 But -- but I -- I'd have to study that
- 6 household expenditure basket, if you like.

- 8 CONTINUED BY MR. ANTOINE HACAULT:
- 9 MR. ANTOINE HACAULT: You gave an
- 10 example of a household expenditure basket. We were
- 11 branding around figures of \$3.75 billion, 20 percent
- 12 of which might be paid by the ten (10) companies that
- 13 I represent that are industries.
- 14 Have you considered the impact of
- 15 taking away a dollar from all those industries as
- 16 compared to government spending?
- DR. MARVIN SHAFFER: I haven't
- 18 considered that, but I think it's important to say two
- 19 (2) things. One (1) is we're looking at what -- what
- 20 I called yesterday a distributional issue. So, in the
- 21 first twenty (20) years of the Preferred Development
- 22 Plan, you have higher revenue requirements, and in the
- 23 longer term, you have lower revenue requirements.
- So, in some respects, you're shifting.
- 25 It -- it is a distribu -- distributional issue between

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- 1 periods. And as for the industries that are affected
- 2 by differing electricity costs, in the shorter term
- 3 where they -- they pay more, in the longer term where
- 4 they pay less, where -- what -- how they would respond
- 5 would depend very much on the economics of -- of their
- 6 circumstances.
- 7 Severe case, it could -- could curtain
- 8 operations. In a less severe case it could simply
- 9 mean higher profits, which would be distributed to
- 10 shareholders with impacts wherever those shareholders
- 11 happen to -- to live.
- 12 MR. ANTOINE HACAULT: Thank you, Dr.
- 13 Shaffer. Next I'd like to turn to page 13 of our book
- 14 of documents. This is in response to CAC Round 1,
- 15 questions to Manitoba Hydro. Question 114, which is
- 16 to provide the quantum of water rental fees paid to
- 17 the province by Manitoba Hydro.
- I guess, firstly, we see a -- a fairly
- 19 sharp rise between 2001 and 2002 fiscal year ends,
- 20 correct?
- 21 MR. ED WOJCZYNSKI: Correct --
- 22 correct.
- 23 MR. ANTOINE HACAULT: And that
- 24 corresponds with the more than doubling of rates by
- 25 the Province of Manitoba that we just looked at,

- 1 correct?
- 2 MR. ED WOJCZYNSKI: Yes.
- 3 MR. ANTOINE HACAULT: And then the
- 4 next point of interest was 2003/2004; that was what we
- 5 referred to as a drought year, correct?
- MR. ED WOJCZYNSKI: Correct.
- 7 MR. ANTOINE HACAULT: And even in a
- 8 drought year the province collected from Manitoba
- 9 Hydro over \$64 million?
- 10 MR. ED WOJCZYNSKI: Correct.
- MR. ANTOINE HACAULT: So although the
- 12 province does take a bit of a hit, it continues to be
- 13 in the green whereas that particular year Manitoba
- 14 Hydro was in the red, correct?
- MR. ED WOJCZYNSKI: Yes, the -- the
- 16 water rentals are almost proportional to the amount of
- 17 generation. There's a more fixed component, but it's
- 18 dominated by the variable components. They vary
- 19 proportionately. It doesn't matter if we're losing or
- 20 making money on the net income statement. It's just
- 21 related to the generation.
- MR. ANTOINE HACAULT: The next area
- 23 that I just want to get a bit of clarification on is
- 24 the benefits to the government, or costs to the
- 25 government with respect to some of these payments.

3970 And if I go to Volume VI still, and I believe it's page 18, this was part of the Chapter 13 and at the bottom of page 13 there's a statement on line 12: 3 "Given that the provincial debt 4 5 quarantee is provided, in exchange 6 for this guarantee the multiple account analysis has not included the debt guarantee fees as part of the 9 net benefits..." 10 And I'm continuing on to the top of the 11 next page: 12 "...to the Manitoba government. 13 sentencel It is assumed that the fee 14 does not provide a net benefit." 15 So firstly, am I correct in 16 understanding that although this is an assumption, there was never any study done on the risk to 17 18 government exposed by its guarantee? 19 DR. MARVIN SHAFFER: There's no specific study done but I did have consultations with 21 -- with Manitoba Hydro financial experts and it was in 22 keeping with a conservative assumption that -- that we 23 wanted to take. 24 MR. ANTOINE HACAULT: You -- Dr.

Shaffer, did you have any discussions with the

- 1 government finance people on this issue?
- DR. MARVIN SHAFFER: No, I did not.
- MR. ANTOINE HACAULT: Okay. And am I
- 4 correct in understanding that it's Hydro's view that
- 5 it will always continue to be self-supporting and
- 6 that, accordingly, there is no risk to the government
- 7 of Manitoba that it might be called on its guarantee?
- 8 That's the position of Manitoba Hydro,
- 9 correct?
- 10 MR. IAN PAGE: There was testimony
- 11 last week that -- that the -- the fee represents a
- 12 fair exchange for the value that Manitoba Hydro
- 13 receives. And, so that -- it -- it's not just a risk
- 14 of default, you know, that -- as -- I think that was
- 15 stated numerous times last week; that's very, very
- 16 small -- remote possibility.
- 17 The majority of the value that Manitoba
- 18 receives on this is in terms of liquidity, access to -
- 19 to the market, and access to the lower -- lower
- 20 interest rates, and the ability to issue debt at -- at
- 21 very long term that we've -- for -- such as the fifty
- 22 (50) years that was mentioned last week that we
- 23 otherwise wouldn't be able to do.
- 24 How that equates to the cost that the
- 25 government incurs, that's not for Manitoba Hydro to --

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- 1 you know, we -- we have no knowledge as to that. But
- 2 we can certainly attest to the value that it provides,
- 3 and we did attest to that last week.
- 4 MR. ANTOINE HACAULT: Sir, are you
- 5 aware that in other jurisdictions there actually have
- 6 been studies done to determine what value, if any,
- 7 government charges with respect to loans for the
- 8 utility are worth?
- 9 MR. IAN PAGE: I am sure there have
- 10 been. I'm not particularly close to those right now.
- 11 I do know that Manitoba Hydro has periodically
- 12 reviewed this, and -- and determined what its credit
- 13 rating would be and what its access to capital would
- 14 be, and determined that the value is -- is fairly
- 15 represented by the 1 percent fee.
- 16 MR. ANTOINE HACAULT: Now, am I
- 17 correct in understanding that -- fairness is -- is an
- 18 easy word to use but I'll get past that, there's no
- 19 factual analysis that has been done and study that has
- 20 been done that you can present to this Board today
- 21 with respect to the value, correct?
- MR. IAN PAGE: Not on this panel. The
- 23 previous panel might have had the expertise, and
- 24 perhaps on April 4th you can ask them again.
- MR. ANTOINE HACAULT: Yeah. But, no,

- 1 my question is whether a study has been done with resp
- 2 -- on a factual basis.
- 3 MR. IAN PAGE: The -- the finance
- 4 panel would be the ones who are aware of any studies
- 5 or not.
- 6 MR. ANTOINE HACAULT: You're not aware
- 7 of any?
- 8 MR. IAN PAGE: I'm personally not
- 9 aware of any.
- 10 DR. MARVIN SHAFFER: If -- if I could
- 11 just add, as well, just on -- on the point that you
- 12 raised. The debt guarantee fee is different from the
- 13 -- the capital tax and the water rental in the sense
- 14 that it's not a simple transfer of funds. It's a
- 15 transfer of funds in exchange for the debt guarantee
- 16 fee.
- 17 And, you know, I can agree with you.
- 18 There might be some uncertainty as to the exact cost
- 19 to government that would keep them whole, taxpayers
- 20 for example, whole by providing that guarantee. But
- 21 there is a cost, and -- and otherwise they'd be giving
- 22 guarantees much more broadly and benefit -- benefiting
- 23 other parties if there was no cost to it.
- 24 And -- and that's what we were trying
- 25 to reflect in this analysis. You can't just consider

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- 1 this an incremental benefit, that debt guarantee fee.
- 2 MR. ED WOJCZYNSKI: And I might add
- 3 that outside of the Chapter 13 multiple accounts
- 4 analysis when Manitoba Hydro in it's -- in the
- 5 analysis I presented, we were very careful in all
- 6 those charts to show the capital tax and water rental
- 7 in -- as one (1) set of numbers, and the debt
- 8 guarantee fee as an additional set of numbers so that
- 9 if the -- the person using these, whether it's this
- 10 Board or somebody else, would have the information
- 11 available, recognizing there is some difference
- 12 between the transfers to the province for the
- 13 guarantee fee and -- and for the -- the two (2) taxes.
- 14 Whether they should be fully considered
- 15 a benefit, partially considered a benefit, or not
- 16 considered a benefit, recognize that there's a bit of
- 17 muddy water there, and -- and, so we -- we provided
- 18 them separate so there's transparencies to what we're
- 19 doing.
- 20 MR. ANTOINE HACAULT: Am I correct in
- 21 understanding that the -- when Manitoba Hydro needs
- 22 money on the market it's actually the province of
- 23 Manitoba that's issuing the debt? It -- it signs the
- 24 paper. There's not very much of it that is Manitoba
- 25 Hydro bonds.

- 1 MR. IAN PAGE: That's correct.
- 2 MR. ANTOINE HACAULT: So although
- 3 we've been talking about a guarantee, the majority of
- 4 the debt is actually issued in the name of the
- 5 province of Manitoba, correct?
- 6 MR. IAN PAGE: It's issued in the name
- 7 of -- of Manitoba, but then there's a mirror
- 8 obligation set up on -- on behalf of Manitoba Hydro,
- 9 and that mirror obligation is -- that Manitoba Hydro
- 10 is getting those funds in exchange for that
- 11 obligation, and -- and that's -- that is what the fee
- 12 is -- is for, for guaranteeing that obligation.
- MR. ANTOINE HACAULT: Thank you for
- 14 that clarification. So it's not in -- what I would
- 15 understand, when my child comes to me and says, I want
- 16 to put a mortgage on my house, that child puts a
- 17 mortgage on his or her house. And then the bank wants
- 18 a guarantee from me with respect to the child's
- 19 obligation. It's different here.
- The government itself borrows the
- 21 money. It's not guaranteeing the obligation. It has
- 22 the obligation, and then transfers the money to
- 23 Manitoba Hydro and charges an additional 1 percent,
- 24 correct?
- MR. IAN PAGE: To use your analogy,

- 1 this would be you going out and -- and getting a
- 2 mortgage on your child's house, and then setting up a
- 3 separate arrangement between you and your child for
- 4 the repayment of that mortgage.
- 5 And depending on how certain you were
- 6 that you would get repaid or as to what additional
- 7 costs you incurred by having to go out to get that
- 8 additional funds that you wouldn't have otherwise
- 9 needed for yourself, you might want to -- that -- that
- 10 would be the source of that fee.
- MR. ANTOINE HACAULT: It's not a bad
- 12 analogy. Hydro's the child. So I would borrow money
- 13 at 4 percent, as the government. And then my child,
- 14 Hydro, has to pay an additional 1 percent to be able
- 15 to use the money that I borrowed. That's the analogy
- 16 that you're making, sir?
- 17 MR. IAN PAGE: The analogy is -- is
- 18 that, if we were to do that, then, yes. And we would
- 19 see that as being more economic than going out on our
- 20 own to purchase -- or to -- to acquire the funds.
- 21 MR. ANTOINE HACAULT: The last item,
- 22 it's a very -- are two (2) small items. With respect
- 23 to, at page 19 of Volume VI, so continuing on in that
- 24 page, there is capital tax. And I apologize, I'm sure
- 25 somebody has told me already.

3977 Are the capital taxes with respect to 1 the increased net debt capitalized, sorry for the two (2) words, 'capitalized,' but capitalized until the 3 generation stations are in service or are they expensed? 6 MR. IAN PAGE: We'd have to undertake 7 to find that out for you. There's nobody on this panel who could tell you that. 9 MR. ANTOINE HACAULT: Okay. I wasn't too sure because of -- on this table it talked about 10 11 the capital tax, but I wasn't too sure whether or not 12 they were paid. 13 So the undertaking will be to advise whether capital tax is capitalized until the 14 15 generating stations are in service or whether they are 16 expensed in each and every incurred. 17 MR. IAN PAGE: I -- I don't believe it 18 is, but I -- I don't want to -- I want to confirm it 19 before I state that categorically. 20 MR. ANTOINE HACAULT: Okay. No, but that's the undertaking? 21 22 MR. IAN PAGE: Yes. 23 24 --- UNDERTAKING NO. 71: Manitoba Hydro to advise

whether capital tax is

	3978
1	capitalized until the
2	generating stations are in
3	service or whether they are
4	expensed in each and every
5	incurred.
6	
7	CONTINUED BY MR. ANTOINE HACAULT:
8	MR. ANTOINE HACAULT: The next page,
9	and this is the last point that I want some
10	clarification on, please, is page 20. So it's the
11	next page, again, taken from Chapter 13. It may be
12	that somebody can quickly answer this question.
13	In the economics evaluation when the
14	common costs were taken out, we got a different graph.
15	Prior to the common costs being taken out, the graph
16	looked very similar to this one.
17	Do we know whether figure 13.11 is
18	based on the common costs being included in the
19	calculation?
20	MR. ED WOJCZYNSKI: Yes, this this
21	is still based on the previous methodology. There
22	hasn't there hasn't been time to go back and update
23	all of Chapter 13 with all of the new methodology.
24	MR. ANTOINE HACAULT: Could you and
25	maybe the table's identical. Is it identical to the

- 1 other table we had?
- 2 MR. ED WOJCZYNSKI: Yes.
- 3 MR. ANTOINE HACAULT: Okay. So that
- 4 was Exhibit 104, I forget, dash something, where we
- 5 updated this, I think?
- DR. MARVIN SHAFFER: That graph and
- 7 the analysis in Chapter 13 is -- is prior to those
- 8 changes as well as prior to the capital cost changes.
- 9 MR. ANTOINE HACAULT: Thank you. I
- 10 think we'll -- and these -- it was Exhibit 104-2 where
- 11 these graphs were redone. So if I refer to Exhibit --
- 12 Exhibit 104-2, the graph that should replace Figure
- 13 13.11 in Chapter 13 is the graph shown on page 3 of
- 14 Exhibit 104-2.
- 15 Is that correct?
- 16 MR. ED WOJCZYNSKI: That is correct.
- 17 And also, I'll just confirm with Ms. Flynn that when
- 18 we provide Plan 6 tomorrow morning they will also have
- 19 the updated S-curve with Plan 6 as well.

20

21 (BRIEF PAUSE)

- 23 MR. ANTOINE HACAULT: The one (1)
- 24 thing I don't think this graph does yet is we had
- 25 seen, as part of Manitoba Hydro's presentation, the

- 1 new construction sensitivities. For example, for
- 2 Conawapa it went up to \$12.48 billion.
- 3 Does this graph include that? My
- 4 understanding is -- is that it doesn't include that
- 5 new sensitivity to construction costs.

6

7 (BRIEF PAUSE)

- 9 MR. ED WOJCZYNSKI: Actually, this
- 10 Exhibit 104-2 does have the new high capital cost, the
- 11 new low capital cost, and the new probabilities that
- 12 Ms. Flynn presented. So it actually does have that.
- 13 And tomorrow morning's will as well.
- 14 MR. ANTOINE HACAULT: Thank you very
- 15 much. Thank you. I'd like to thank the panel again
- 16 for answering my questions. And subject to the
- 17 further questions that we'll have, and I'm trying to
- 18 choose my words carefully, with respect to the
- 19 evolving numbers and plans, I thank the panel for
- 20 having answered these questions.
- 21 THE CHAIRPERSON: Merci, Me. Hacault.
- 22 Mr. Hombach...?
- 23 MR. SVEN HOMBACH: Thank you, Mr.
- 24 Chairman. I'm advised that Intervenor counsel have
- 25 agreed that the MMF would be examining next. So I

- 1 suggest we turn it over to Ms. Saunders.
- THE CHAIRPERSON: Ms. Saunders,
- 3 please.
- 4 MS. JESSICA SAUNDERS: Okay. Would it
- 5 be possible to ask for a brief washroom break at this
- 6 point, or would you prefer that I go on right now? I
- 7 do apologize. It's more selfish. I -- I didn't...
- 8 THE CHAIRPERSON: No, I think we're
- 9 ready to keep going, please.
- 10 MS. JESSICA SAUNDERS: Okay. All
- 11 right, I'll wait. Thanks. So by way of
- 12 administrative matters --
- 13 THE CHAIRPERSON: Just -- I missed
- 14 that, did you -- would you like a break?
- MS. JESSICA SAUNDERS: Yes.
- THE CHAIRPERSON: Would you prefer a
- 17 break? Okay. Let's take a break.
- 18 MS. JESSICA SAUNDERS: I could wait
- 19 though if you wanted me --
- THE CHAIRPERSON: Let's take a ten
- 21 (10) minute break.
- MS. JESSICA SAUNDERS: Okay. Thank
- 23 you.
- 24
- 25 --- Upon recessing at 1:52 p.m.

3982 --- Upon resuming at 2:00 p.m. 2 3 THE CHAIRPERSON: Ms. Saunders, please. I think we're ready to resume. I think everybody is in position or soon to be in position. Hang on, please. 7 MS. PATTI RAMAGE: Before I give up the chair, I think Mr. Page wanted to address an undertaking. So while we make the switch Mr. Page can 10 do that. 11 MR. IAN PAGE: Thank you, Mr. Chair. Just before the break Manitoba Hydro was asked to confirm whether we, in fact, capitalized the capital 14 tax. And I -- and I can just -- I can confirm that --15 now that we -- we -- Manitoba Hydro does not 16 capitalize its capital tax. 17 18 (BRIEF PAUSE) 19 20 THE CHAIRPERSON: Ms. Saunders, 21 please. 22 MS. JESSICA SAUNDERS: Thank you. 23 the -- the MMF book of documents, Volume 2, will be 24 referred to in this examination, and I do believe that

25 that would be MMF Exhibit 28-2. Thank you.

- 1 --- EXHIBIT NO. MMF-28-2: MMF book of documents.
- 2
- 3 CROSS-EXAMINATION BY MS. JESSICA SAUNDERS:
- 4 MS. JESSICA SAUNDERS: So the first
- 5 part of my questions are for Dr. Shaffer. In the
- 6 filing and in your presentation, Dr. Shaffer, the net
- 7 benefit for the Manitoba Government arises only for
- 8 capital taxes and water rentals, correct?
- 9 DR. MARVIN SHAFFER: That -- that is
- 10 based on the assumptions that I made, yes.
- 11 MS. JESSICA SAUNDERS: And those
- 12 assumptions, further in your presentation, you
- 13 mentioned as part of the government account, that coal
- 14 taxes, carbon taxes, debt quarantee fees, and taxes
- 15 from wages paid by those employed with the projects,
- 16 as well as any associated sales taxes resulting from
- 17 employment in the project were not considered in the
- 18 government account, correct?
- 19 DR. MARVIN SHAFFER: That's correct.
- 20 What I -- what I tried to identify -- and, again, it's
- 21 -- it's very important to think about net benefit in a
- 22 benefit cost analysis is, What are the incremental
- 23 revenues to government, revenues they wouldn't
- 24 otherwise receive, in excess of any incremental costs
- 25 that are not offset by incremental costs.

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- 1 And throughout the analysis, I tried to
- 2 be conservative in -- in my estimation of that. We
- 3 had a discussion just now about the debt guarantee fee
- 4 in the sense that I didn't consider it to be a net
- 5 benefit because there is an offsetting obligation that
- 6 they're providing -- a service that they're providing.
- 7 It has some cost.
- 8 And we can go through the other -- the
- 9 -- the other taxes as well, if you like, as to why I
- 10 do or didn't include them.
- MS. JESSICA SAUNDERS: Okay.
- 12 Sometimes in considering the incremental revenue to
- 13 government and then netting that against the costs,
- 14 are there costs that sometimes don't necessarily
- 15 measure up with a benefit?
- 16 So, say, other government costs that
- 17 would factor into that analysis?
- DR. MARVIN SHAFFER: Could you give me
- 19 an example or -- what you're --
- 20 MS. JESSICA SAUNDERS: Okay, well --
- 21 well, let's -- let's try this. So I'm just getting an
- 22 idea -- I'm hoping to get an idea of whether or not
- 23 certain costs could form part of this analysis.
- So, firstly, I'll refer to Tab 1 on
- 25 page 3 of the MMF's book of documents, and if you

- 1 scroll to the bottom, you'll see that Aboriginal
- 2 consultation pursuant to section 35 of the
- 3 Constitution Act is out of scope for the terms of
- 4 reference.
- 5 And in my cross-examination of CEO
- 6 Thompson, he confirmed that it was his understanding
- 7 that Aboriginal consultation under section 35 is a
- 8 separate Crown/Aboriginal process and has not been
- 9 included in the NFAT.
- 10 So would you agree these costs are what
- 11 the government of Manitoba would have to pay in
- 12 association with consultation activities with the
- 13 projects involved, and that these costs are not being
- 14 considered in the NFAT?
- Do you confirm that that's your
- 16 understanding as well?
- DR. MARVIN SHAFFER: If you'd just
- 18 give me a moment.
- MS. JESSICA SAUNDERS: Okay.

20

21 (BRIEF PAUSE)

- 23 DR. MARVIN SHAFFER: As -- as you can
- 24 gather, I'm not the expert on Section 35, costs and
- 25 how they might differ across the -- the plans, but

- 1 there might be someone here who can help.
- MS. SHAWNA PACHAL: Sure, I can speak
- 3 to that quickly. Section 35 consultations are
- 4 undertaken by the province and the federal government
- 5 and they fund their processes themselves.
- 6 Hydro assists them where -- when they
- 7 request from us technical information to assist them
- 8 in their consultation, so the costs associated with
- 9 our internal staff, but it's very, very minor.
- 10 Participating to provide them with some
- 11 technical information, or do a presentation, we would
- 12 do that, but the Section 35 consultation process is
- 13 funded from -- directly from the province and the feds
- 14 in their own processes.
- MS. JESSICA SAUNDERS: Okay. So then
- 16 you confirm, then, that the costs are funded by the
- 17 government for consultation.
- 18 So you also mentioned Hydro's costs,
- 19 because Hydro also has costs for engagement of
- 20 Aboriginal communities and hydro projects in
- 21 accordance with Hydro's development principles, and
- 22 the proactive approach to project planning and
- 23 development, and, for instance, some of those costs
- 24 are included in Manitoba Hydro Exhibit 91 at Tab 3 on
- 25 page 17 of MMF's book of documents.

3987 (BRIEF PAUSE) 1 2 3 MS. JESSICA SAUNDERS: Just go down to the chart. And so based on what we've heard, Dr. Shaffer, do you confirm that these are costs that Manitoba Hydro pays for engagement of Aboriginal communities and hydro projects? 7 8 MS. SHAWNA PACHAL: Yes, they are. 9 MS. JESSICA SAUNDERS: Okay. And at Tab 1, page 4, of MMF's book of documents, lines 4 to 10 11 5, this is from page 62 of Chapter 13 of the NFAT, it is indicated that: 12 13 "There could be some broad community 14 support for the engagement with 15 Aboriginal communities in the plans 16 with northern hydro development." 17 Do you see that? 18 DR. MARVIN SHAFFER: Yes. 19 MS. JESSICA SAUNDERS: And then at 20 lines 7 to 9: 21 "The significance from a broad 22 Manitoba perspective of the 23 willingness to pay for the 24 consequences or attributes that go 25 beyond what is already reflected in

	3988
1	Manitoba Hydro's aboriginal
2	partnership arrangements
3	discussed]."
4	Do you see that?
5	DR. MARVIN SHAFFER: Line?
6	MS. JESSICA SAUNDERS: Sorry, lines 7
7	to 9, discussing the significants from a broad
8	Manitoba perspective, and there it's discussed:
9	"The willingness to pay for the
10	consequences or attributes that go
11	beyond what is already reflected in
12	Manitoba Hydro's Aboriginal
13	partnership arrangements
14	discussed there]."
15	Do you see that?
16	DR. MARVIN SHAFFER: Yes.
17	MS. JESSICA SAUNDERS: So when
18	considering the significance of social benefits or
19	costs from a Manitoba perspective for the Manitoba
20	government account, the goal is to consider the costs
21	not already included in the capital costs or
22	expenditures, correct?
23	DR. MARVIN SHAFFER: Correct.
24	MS. JESSICA SAUNDERS: And I'm
25	referring back to the participating costs at Tab 3 on
1	

3989 page 18. 2 3 (BRIEF PAUSE) 5 DR. MARVIN SHAFFER: I'm having trouble keeping up with --7 MS. JESSICA SAUNDERS: I do apologize, and I will slow, but I referred to this originally. So these, again, are the engagement costs that Hydro pays with Aboriginal communities that go beyond what 10 11 is already reflected in Manitoba Hydro's partnership 12 agreements, and -- and I understand that other members 13 of the panel may want to confirm that, or not. 14 DR. MARVIN SHAFFER: I -- I quess I'm 15 having difficulty understanding the questions. As I understand this chart, they're costs to December 2013. 16 17 MS. JESSICA SAUNDERS: M-hm. So --18 DR. MARVIN SHAFFER: So they would be 19 common to all of the plans, and so there would be no difference among the plans with respect to these costs 21 in any -- wherever you put those in, and they 22 presumably would go in the market evaluation account 23 if they're Manitoba Hydro expenditures. 24 So what -- what I was, you know, trying to do in the assessment is to compare alternative

- 1 plans, and -- and so what we would be looking at is,
- 2 going forward, the -- the difference in -- in
- 3 expenditures. In this case, what you're showing me,
- 4 and -- and what we've heard would be what -- that
- 5 Manitoba Hydro is spending. And if you're talking
- 6 about government consultation costs, that would go
- 7 into the government account if they differed among the
- 8 plans, and if the were significant.
- 9 MS. JESSICA SAUNDERS: Okay, great.
- 10 And that was just my point, that the government costs
- 11 separate from -- from these costs that factor into the
- 12 expenditures, as you've confirmed, those government
- 13 costs for consultation, those would then be suitable
- 14 for analysis, you would say?
- DR. MARVIN SHAFFER: I would say if --
- 16 if they are significant, and if they differ among the
- 17 plans in a significant way, I think what you're
- 18 suggesting is -- is white -- right. You'd want to net
- 19 that out of the government account.
- 20 When -- when I was doing this work and
- 21 I asked, Are there any significant costs going
- 22 forward, the -- the answers I was getting was, For the
- 23 most part, the costs have been incurred, and we were
- 24 thinking of the major costs in training and the like
- 25 that the -- the government's entered into. And, of

- 1 course, when we talk about the government account as
- 2 well, we're talk -- I -- I was talking about the --
- 3 the Manitoba Government, not the Federal Government.
- 4 MS. JESSICA SAUNDERS: Of course, and
- 5 so in those indications, did you explore at all with
- 6 Manitoba Hydro whether or not those costs to
- 7 government would be significant?
- DR. MARVIN SHAFFER: I certainly asked
- 9 whether there was anticipated to be significant
- 10 expenditures, and -- and in particular, that would
- 11 differ among the plans, not ongoing activities of
- 12 departments. It would take place, more or less, the
- 13 same level of -- of resourcing as -- as otherwise.
- 14 MS. JESSICA SAUNDERS: Okay. So then
- 15 to confirm, then, the -- I'll ask Ms. Villegas to go
- 16 to page 16 of Chapter 13, and my apologies, it's not
- 17 included in the MMF book of documents. Oh, but there
- 18 it is.
- 19 When you look to the government
- 20 account, and then the "Indicators" column, so then,
- 21 what has been indicated for the present value of
- 22 incremental revenues to government, net of incremental
- 23 costs, the significance of those other costs wouldn't
- 24 have formed part of this analysis?
- DR. MARVIN SHAFFER: It formed part of

- 1 the analysis, but the -- the judgment was that there
- 2 weren't incremental costs of -- of -- that would
- 3 different among the plans in a significant way.
- 4 MS. JESSICA SAUNDERS: Okay.
- 5 DR. MARVIN SHAFFER: And that was the
- 6 -- the basis. The numbers are based on that --
- 7 MS. JESSICA SAUNDERS: Okay.
- 8 DR. MARVIN SHAFFER: -- judgment.
- 9 MS. JESSICA SAUNDERS: And those
- 10 judgments --
- DR. MARVIN SHAFFER: Certainly --
- 12 certainly the questions were asked, yeah.
- 13 MS. JESSICA SAUNDERS: For sure. And
- 14 so, based on those questions and this process of the
- 15 judgments and what was included and not included, is
- 16 there a list or any other additional information that
- 17 could be provided regarding that process?
- 18 DR. MARVIN SHAFFER: I don't think
- 19 there's a -- a list, per se. There is discussion in
- 20 the report about what I relied on and what assumptions
- 21 I made, and if there's areas like this where you
- 22 require further clarification, we -- and, you know,
- 23 we'll do that here, and -- and we try to do it in the
- 24 interrogatory response when people have questions
- 25 about that.

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- I -- I should say though, with respect
- 2 to the -- the net benefit to taxpayers, I think the
- 3 assumptions we've made, by and large, are -- are
- 4 purposely conservative. And -- and you -- you
- 5 mentioned them and the Chair mentioned it. We didn't
- 6 include, for example, sales taxes. It's a complicated
- 7 area, sales taxes, whether they're incremental or not,
- 8 but we didn't include them.
- 9 We didn't include any of the
- 10 incremental taxes that might be paid by in-migrants,
- 11 so. And -- and again, because it's complicated to
- 12 know, we had to make some judgments in -- and in the
- 13 analysis here, as opposed to the analysis that -- you
- 14 know, some people like to do analysis where they get a
- 15 -- a really tight number, even though it's wrong, and
- 16 -- and I was trying to do an -- an analysis that
- 17 provides some judgment as to the relative advantage or
- 18 disadvantage, and -- and, in some sense, using the
- 19 numbers for relative significance.
- 20 MS. JESSICA SAUNDERS: Okay. So
- 21 moving on to -- still with you, Dr. Shaffer, but
- 22 another area. So from the filing in your
- 23 presentation, I understand that the focus of
- 24 considering the environmental account in the analysis
- 25 is not to focus on the impacts themselves, but on the

- 1 external net benefits or cost to Manitobans, correct?
- DR. MARVIN SHAFFER: That's correct.
- 3 MS. JESSICA SAUNDERS: Okay. And in
- 4 identifying the net benefits and costs to Manitobans
- 5 for the environmental account, you relied on Manitoba
- 6 Hydro and the Cree Nation partners' assumptions based
- 7 on information provided in Chapter 2, specifically,
- 8 the environmental assessment of the Keeyask Generation
- 9 Project, correct?
- 10 DR. MARVIN SHAFFER: Certainly that
- 11 was a major input, and -- and this analysis, of
- 12 course, is very much at an overview level, not at the
- 13 detail of -- of the environmental assessments that
- 14 were done.
- MS. JESSICA SAUNDERS: Okay. And you
- 16 indicated a major input, so in identifying the net
- 17 benefits and costs here, what other information, if
- 18 any, in addition to the environmental assessment of
- 19 the Keeyask Project did you consult?
- 20 DR. MARVIN SHAFFER: There were --
- 21 well, first of all, in the emissions, we -- we had
- 22 estimates from -- from the simulations that Manitoba
- 23 Hydro ran as to GHG emissions and CEC criteria or
- 24 contaminant, in particular, NOx and -- and particulate
- 25 emissions, so we had that data.

- 1 There were also project summaries
- 2 available for Conawapa, and at a -- at a fairly high
- 3 level of detail, some -- some environmental attribute
- 4 data for gas plants, some -- some discussions we had
- 5 around transmission lines.
- 6 MS. JESSICA SAUNDERS: Okay. And
- 7 regarding the projects as part of the plan and
- 8 alternatives that have not yet been subject to
- 9 detailed environmental assessment, arrangements with
- 10 directly affected communities, can you explain to what
- 11 extent, if any, the residual impacts from those
- 12 projects have been considered in the environmental and
- 13 social accounts?
- 14 DR. MARVIN SHAFFER: They've been
- 15 considered to -- to this extent -- and -- and are --
- 16 are you referring to projects other than Keeyask now?
- MS. JESSICA SAUNDERS: Yes.
- DR. MARVIN SHAFFER: So they've been
- 19 considered -- if we're talking about Conawapa --
- MS. JESSICA SAUNDERS: Conawapa.
- 21 DR. MARVIN SHAFFER: -- is a -- is a
- 22 major project, based on the available project
- 23 information and summaries of the nature of the -- the
- 24 consequences, the measures that Manitoba Hydro plan
- 25 to, much like in Keeyask, to -- to minimize adverse

- 1 effects. There are plans to -- to provide
- 2 compensation, both specific to adversely affected
- 3 individuals as well as broader plans.
- And -- and the judgment that -- as --
- 5 as was made with Keeyask, that the residual impacts
- 6 would be fairly of limited duration and minimized to
- 7 the extent possible during, and particularly the
- 8 construction phase, when they will be more
- 9 significant.
- 10 MS. JESSICA SAUNDERS: Okay. Can the
- 11 same be said for the 500 kV line?
- DR. MARVIN SHAFFER: The 500 kV line,
- 13 the interconnection line?
- MS. JESSICA SAUNDERS: Yes.
- 15 DR. MARVIN SHAFFER: We had some
- 16 discussions. I had discussions with the transmission
- 17 people. It's more difficult because the -- the nature
- 18 of the impacts would vary depending on the routing,
- 19 and in particular, the extent to which you were
- 20 crossing farmland and forest, or -- or parkland, non-
- 21 agricultural land, if I could leave it at that, and
- 22 I'd say that's at a much more general level.
- 23 But again, as -- as I said in the
- 24 report, the consideration was that the design of that
- 25 and the routing of that would be made to minimize

- 1 adverse effects, and that is a -- leave it as a non-
- 2 monetized uncertain consequence that would be
- 3 confirmed in -- in more detailed Environmental
- 4 Assessment processes.
- 5 MS. JESSICA SAUNDERS: Okay. Before I
- 6 move on, just to confirm, so for Conawapa and the 500
- 7 kV line, you relied upon Hydro's analysis for those
- 8 projects?
- 9 DR. MARVIN SHAFFER: Well, the
- 10 information Hydro provided, which would be their
- 11 analysis, and I presume the consultation of -- of --
- 12 and in particular, the case of Conawapa, consulting
- 13 reports.
- 14 MS. JESSICA SAUNDERS: Thank you. And
- 15 so I understand from Chapter 13 in your presentation
- 16 that the assessment in the multiple account cost
- 17 benefit analysis does not have to be entirely in
- 18 dollar terms, and the consequences all aggregate to a
- 19 bottom line.
- 20 And as -- I do apologize, I'm -- I'm
- 21 new to this, but the purpose is to identify adv --
- 22 advantages or disadvantages of the alternatives and
- 23 the key trade offs for the different parties and
- 24 interests that are affected, information that
- 25 judgments could be made about the preferred

- 1 alternatives.
- 2 Is that correct?
- 3 DR. MARVIN SHAFFER: You know, I might
- 4 express it a little bit differently --
- 5 MS. JESSICA SAUNDERS: Then please do.
- 6 DR. MARVIN SHAFFER: -- but I think by
- 7 and large, it's correct. I, you know, I think it's --
- 8 it's trying to recognize as opposed -- put it this
- 9 way, if I tried to do a -- a traditional benefit cost
- 10 analysis where we're trying to monetize the
- 11 willingness to pay for all positive consequences, and
- 12 the compensation demanded to offset all negative
- 13 consequences, you would rightfully -- or not you,
- 14 others, in -- including myself, would rightfully be
- 15 concerned that, first of all there's some uncertainty
- 16 about projects that are still to be designed and
- 17 routed.
- 18 Secondly, very difficult to estimate in
- 19 monetary terms some -- some -- in particular,
- 20 environmental attribute consequences. Now, I'm not
- 21 talking about specific resource use and -- and things
- 22 of that nature. And so, what you do is you -- you use
- 23 the traditional tools, if you like, to monetize what
- 24 you can, and certainly, Manitoba Hydro incremental
- 25 expenditures and revenues you can do that for,

- 1 government revenues you can do that for.
- 2 We might differ on some of the
- 3 assumptions. You can do that for the economic -- the
- 4 employment benefits and GHG -- 'G' consequences. When
- 5 you get into the -- the environmental and social
- 6 consequences, you can do two (2) things.
- 7 In -- in the case of Keeyask where you
- 8 have project partners who are willing participants in
- 9 the project, they've obviously made some judgment that
- 10 the residual effects have -- will be managed to a
- 11 point, where the benefits to them exceed. In other
- 12 words, there is a net gain to them, so that tells you
- 13 something about that.
- 14 To other consequences and to other
- 15 parties, there could be positive or negative. What
- 16 you're left with is a trade-off, so if -- if we're
- 17 talking about the trade-off of -- of non-monetised
- 18 environmental or social consequences to other
- 19 communities, some of which, of course, would be
- 20 positive, but some could well be negative.
- 21 The way in which you would use this
- 22 kind of analysis is to say: Is there reason to
- 23 believe that they're of a magnitude that in -- in the
- 24 latest analysis that -- that I put up yesterday with
- 25 the capital costs sensitivities and -- and without the

- 1 WPF's investment, are they of a magnitude of a billion
- 2 dollars?
- Because that's what they'd have to be
- 4 worth. That's what you'd have to -- that's the
- 5 critical value. That's what they'd have to be
- 6 monetised at to cause you to want to abandon, if you
- 7 like, what appears to be a -- a -- a preferable
- 8 project on -- on the basis of what you've monetised.
- 9 MS. JESSICA SAUNDERS: Okay.
- 10 DR. MARVIN SHAFFER: So that's --
- 11 that's the nature of the -- the -- the rationale for
- 12 this kind of approach recognizing that there are some
- 13 consequences that are still high level in terms of
- 14 their definition and, in any event, very difficult to
- 15 monetize.
- 16 MS. JESSICA SAUNDERS: Okay. So,
- 17 you've discussed quite a bit on the monetised matters,
- 18 but going to the -- the main non-monetised issues you
- 19 said with respect to the environmental and social
- 20 impacts.
- 21 You indicate in your presentation that
- 22 those impacts do not indicate major residual effects,
- 23 and that those impacts would be considered in the
- 24 environmental reviews.
- 25 So I'm just wondering, do you have a

- 1 list as part of this process of what those non-
- 2 monetised issues may be?
- 3 DR. MARVIN SHAFFER: Some of the -- if
- 4 I could call them the higher level concerns or issues
- 5 particularly coming out of Keeyask and, to a lesser
- 6 extent, Conawapa, are discussed in the report, but at
- 7 -- at a very high level.
- But I think it's also important to
- 9 recognize that this report isn't done in isolation.
- 10 You know, there -- there are volumes of material on --
- 11 on the environmental and social consequences of
- 12 Keeyask, and -- and that is where you're going to get
- 13 the -- the information that was used to make the
- 14 judgment that people feel the residual impacts will be
- 15 minimized, limited in duration, and manageable.
- 16 MS. JESSICA SAUNDERS: And we could go
- 17 to those other documents, as you say, but it's
- 18 important to note that this process -- the multiple
- 19 account cost benefit analysis, as you've said, departs
- 20 from that more traditional sense and tries to kind of
- 21 consider more of these non-monetised matters.
- You've indicated that those matters are
- 23 going to be considered in the environmental reviews,
- 24 and I'm wondering: Is a multiple account cost benefit
- 25 analysis completed in the environmental review of a

- 1 per -- of a project?
- DR. MARVIN SHAFFER: Is it completed --
- 3 MS. JESSICA SAUNDERS: Yeah.
- 4 DR. MARVIN SHAFFER: -- in -- in the
- 5 review?
- 6 MS. JESSICA SAUNDERS: Yeah. Is -- is
- 7 there -- is there another opportunity, other than what
- 8 we have here, for another multiple account cost
- 9 benefit analysis as it re -- relates to these -- these
- 10 issues here?
- DR. MARVIN SHAFFER: Well, I -- I
- 12 think the two (2) process are in -- in some sense,
- 13 parallel -- often confused, but parallel -- in this
- 14 sense.
- 15 As you go through the Keeyask process,
- 16 for example, you know, you -- you would -- you would
- 17 have this kind of information and then you could put
- 18 those environmental -- more detailed environmental and
- 19 social findings in the context of what we know about
- 20 the -- the monetised net benefits.
- 21 And when those processes are complete,
- 22 you -- you -- you could have a more fulsome discussion
- 23 of -- of what they are within -- within this
- 24 framework.
- MS. JESSICA SAUNDERS: Okay.

lining on it.

4003 DR. MARVIN SHAFFER: But they seem to 1 be the most practical way to try to take a -- a -- a broad view of all of the consequences, including the 3 environmental and social, because the point is to try to capture consequences to everyone who's affected in -- in -- at least at a high level. 7 And the major consequences were summarized in Chapter 13, though not anywhere near the level that you'd want for an environmental assessment or social impact assessment. 10 11 MS. JESSICA SAUNDERS: Okay. So moving back again to the social account, on page 57 of 13 the filing, that's Chapter 13 at line 12 -- oh, is 14 that page 57 of the filing -- of the Chapter 13? 15 Okay. I may have that wrong, just a second. 16 17 (BRIEF PAUSE) 18 19 MS. JESSICA SAUNDERS: I do apologize. I'll take you to page -- oh, it says page 57 of 21 Chapter 13. This is the --22 MR. SVEN HOMBACH: Ms. Saunders, if it 23 helps, there's two (2) versions of this chapter. 24 We're currently looking at the one that has black

4004 1 CONTINUED BY MS. JESSICA SAUNDERS: 3 MS. JESSICA SAUNDERS: Right. Yeah. So I'm looking at the August 2013 version, and if we could just stick to that now. I don't believe that --I did review the changes from the updated verison. don't believe -- in fact, I've confirmed it doesn't --7 it's not changed from the August one. But, thank you, Ms. Villegas. 10 So in line 12: 11 "The project developments in the Preferred and Alternative Plans would 12 13 have a wide range of social and 14 economic effects for three (3) groups 15 specifically, and so it can be said 16 1) project partners, 2) local and 17 regional communities, and 3) 18 Manitobans as a whole." 19 You see that? 20 DR. MARVIN SHAFFER: 21 MS. JESSICA SAUNDERS: And, so 22 regarding --23 DR. MARVIN SHAFFER: 24 MS. JESSICA SAUNDERS: And, so 25 regarding the local and regional communities, how

- 1 would you describe what groups of people fall into
- 2 this category?
- 3 DR. MARVIN SHAFFER: I don't have the
- 4 regional boundaries as -- as well defined as you would
- 5 in an environmental assessment process with local
- 6 areas and regional areas defined. It -- it simply
- 7 meant to be those communities that are affected either
- 8 -- either through population influx and worker-related
- 9 -- population-related and worker-related impacts, or
- 10 those communities that are affected by -- through
- 11 resource impacts and consequence resource use effects.
- 12 So it wasn't meant to be defined
- 13 specifically to an area as you would in, let's say, an
- 14 EIS. It was more a conceptual. There -- there are
- 15 local and regional communities that are affected both
- 16 because -- on the positive side because of new
- 17 employment and income opportunities, and on the
- 18 negative side to the extent that there are negative
- 19 consequences with a large project in -- in a fairly
- 20 remote area --
- MS. JESSICA SAUNDERS: Okay.
- DR. MARVIN SHAFFER: -- and -- and all
- 23 of the things that goes with it.
- 24 MS. JESSICA SAUNDERS: So while
- 25 there's the project partners kind of considered

- 1 separate from this local and regional communities,
- 2 presumably based on the description you've just
- 3 provided, though, local and regional communities could
- 4 refer to the -- the KCNs, as well as other Aboriginal
- 5 groups in this area?
- 6 DR. MARVIN SHAFFER: Yes. Or in the
- 7 area of any of the projects, yes.
- 8 MS. JESSICA SAUNDERS: And in
- 9 identifying the net benefits and costs to Manitobans
- 10 for the social account, you relied on Manitoba Hydro
- 11 and the Cree Nation Partners' assumptions based in the
- 12 information provided in Chapter 2, specifically the
- 13 environmental assessment of the Keeyask generation
- 14 project, correct?
- DR. MARVIN SHAFFER: Yes.
- 16 MS. JESSICA SAUNDERS: And again the
- 17 same line of questioning but: Were there any other
- 18 documents or information that you relied on in your
- 19 assessment?
- 20 DR. MARVIN SHAFFER: I think -- I
- 21 think we went through this before but I did have
- 22 project summary information, which is -- provided a
- 23 description of environmental attributes and, to some
- 24 degree, social attributes.
- I did have discussions with parties

4007 responsible for the environmental assessment of -- of alternative projects. 3 So I -- I reviewed the information that was available, more -- more at a summary level and then the detailed EIS level, but at a summary level on all of these projects and discussed with the experts 7 responsible for these projects, or at least in the environmental assessment and social assessment of these projects --10 MS. JESSICA SAUNDERS: Okay. 11 DR. MARVIN SHAFFER: -- what the 12 consequences would be. 13 MS. JESSICA SAUNDERS: And at slide 9 14 of Manitoba Hydro Exhibit 129 in your presentation, 15 the impacts to affected community section in the social account cites: 16 17 "Major commitments and plans to 18 minimize adverse residual effects 19 with extensive mitigation, monitoring 20 compensation, and partnership 21 arrangements. 22 So is this referring to the information from the environmental assessment for -- for Keeyask 24 with respect to the Keeyask Cree Nations, correct? 25 DR. MARVIN SHAFFER: That would

- 1 certainly apply to Keeyask, and not just with respect
- 2 to the -- the partners but also mitigation and
- 3 monitoring for the broader impacts as it -- as I'm
- 4 sure you're aware for -- for the project. And others
- 5 could speak to it better than myself.
- 6 It also reflects the plans with any of
- 7 these projects, even the gas plants included, in terms
- 8 of the site-ing, in terms of the emissions, in terms
- 9 of all aspects of that. The -- the plans would be to
- 10 minimize any residual effects.
- MS. JESSICA SAUNDERS: But only for
- 12 those with extensive mitigation monitoring
- 13 compensation and partnership arrangements in place,
- 14 correct?
- DR. MARVIN SHAFFER: Not in place.
- 16 The assessment was -- is basically saying that when
- 17 any of these projects take place, some of which are to
- 18 be defined in -- in the plans, like future gas plants
- 19 as an example, the intention would be, and -- and
- 20 you're seeing it in the practice with -- with Keeyask
- 21 and certainly the plans for Conawapa should it go
- 22 ahead and whatever preliminary plans there are for
- 23 transmission -- new transmission, there would be
- 24 extensive mitigation and monitoring and -- and efforts
- 25 to minimize residual effects.

- 1 The compensation and partnership
- 2 arrangements would -- would not necessarily apply in
- 3 the same way as Keeyask, obviously.
- 4 MS. JESSICA SAUNDERS: Okay. Thank
- 5 you, Dr. Shaffer. I believe those are all my
- 6 questions for you.
- 7 DR. MARVIN SHAFFER: Thank you.
- 8 MS. JESSICA SAUNDERS: Moving to
- 9 employment and training opportunities. In your
- 10 presentation, Ms. Pachal, on employment opportunities
- 11 you discussed the goal in the Keeyask Project of
- 12 seeking to maximize Aboriginal employment, correct?
- MS. SHAWNA PACHAL: That's correct.
- 14 MS. JESSICA SAUNDERS: And in your
- 15 presentation you referenced the Keeyask Advisory Group
- 16 on employment to monitor, report, and make
- 17 recommendations to Hydro as the Keeyask project
- 18 manager, correct?
- MS. SHAWNA PACHAL: Correct.
- 20 MS. JESSICA SAUNDERS: I'll refer you
- 21 to Tab 2; that would be MMF Exhibit 282, page 10. And
- 22 at the bottom, this is Section 12.5 of the JKDA, where
- 23 it is explained that:
- 24 "The Advisory Group on employment
- 25 [which I'll refer to as the AGE]

	4010
1	provides a form for addressing
2	employment-related issues, in
3	particular, Aboriginal employment, in
4	accordance with AGE Terms of
5	Reference."
6	And then on pages 12 to 13 that follow
7	this page we have the terms of reference for the AGE.
8	And you'll note below if you scroll down at item 2E,
9	there we go, one (1) purpose is:
10	"To monitor and provide
11	recommendations to the project manner
12	manager regarding Aboriginal
13	employment associated with Keeyask,
14	including under the BNA job referral
15	process."
16	And so you agree that includes
17	Aboriginal peoples other than those belonging to the
18	KCNs, correct?
19	MS. SHAWNA PACHAL: Yes.
20	MS. JESSICA SAUNDERS: And also at
21	Section 2F it says, "Monitor employment for members."
22	And that refers to the KCNs, correct?
23	MS. SHAWNA PACHAL: That's correct.
24	MS. JESSICA SAUNDERS: And as well as
25	employment of Aboriginal people from other

- 1 communities, correct?
- MS. SHAWNA PACHAL: Correct.
- 3 MS. JESSICA SAUNDERS: So when we turn
- 4 to the next page, the terms of reference deal with
- 5 membership right there, at -- at Section 3.
- 6 You can confirm that the KCNs have
- 7 representation on the Advisory Group, correct?
- MS. SHAWNA PACHAL: Yes, they do.
- 9 MS. JESSICA SAUNDERS: And looking at
- 10 this list, you can also confirm that there's no
- 11 specific representation for Aboriginal people from
- 12 communities other than KCN communities, correct?
- 13 MS. SHAWNA PACHAL: That is correct.
- 14 MS. JESSICA SAUNDERS: And I want to
- 15 discuss the Hydro Northern Training Employment
- 16 Initiative referred to as HNTEI. It's been referenced
- 17 a few occasions already.
- This, of course, as we know, was -- as
- 19 focussed on creating skilled labour positions related
- 20 to Manitoba Hydro projects and, as well, other
- 21 northern Manitoba employment opportunities, correct?
- 22 MS. SHAWNA PACHAL: Correct.
- 23 MS. JESSICA SAUNDERS: And the
- 24 Wuskwatim and Keeyask Training Consortium, or the
- 25 WKTC, was a nonprofit company that acted as the

- 1 representative -- sorry, as the administrative and
- 2 coordinating body for HNTEI.
- 3 Is that correct?
- 4 MS. SHAWNA PACHAL: That's correct.
- 5 MS. JESSICA SAUNDERS: And the
- 6 duration of HNTEI was from 2005 until 2009 and '10,
- 7 correct?
- 8 MS. SHAWNA PACHAL: Subject to check,
- 9 that sounds about right. I think it might have been a
- 10 bit earlier, but...
- MS. JESSICA SAUNDERS: Okay. And we
- 12 heard among others that the KCNs and my client, the
- 13 MMF, were Aboriginal partners in this initiative. And
- 14 we heard that HNTEI was funded by a number of parties.
- 15 And in discussing this initiative with
- 16 the PUB counsel this morning, the PUB referred to PUB
- 17 Manitoba Hydro IR 2-423c, and this is included, Ms.
- 18 Villegas, at MMF Exhibit 28-2, page 23.
- 19 And Ms. Pachal, you provided a clear
- 20 breakdown of Hydro's funding contributions and have
- 21 undertaken to indicate how many of the hires of this
- 22 chart for Keeyask were HNTEI trainees.
- 23 Is that correct?
- 24 MS. SHAWNA PACHAL: Yes. People are
- 25 working on that as we speak.

- 1 MS. JESSICA SAUNDERS: So, I believe
- 2 my questions on that will be dealt with in the
- 3 Undertaking, but I do have a few other questions.
- 4 As part of Hydro's \$20 million funding
- 5 commitment that you discussed this morning, did
- 6 Manitoba Hydro have any initial targets set for the
- 7 number of HNTEI hires that it wanted for Keeyask?
- 8 MS. SHAWNA PACHAL: Manitoba Hydro
- 9 worked with its partners as well as the MKO and the
- 10 MMF to develop what we call the ASEPP proposal --
- 11 Aboriginal Skills and Employment Program and Proposal
- 12 -- to apply for federal funding.
- So, sort of to give you a little bit of
- 14 background on -- on HNTEI is it started with Manitoba
- 15 Hydro making a commitment to say, We're going to put
- 16 some money into a training initiative associated with
- 17 Wuskwatim and Keeyask.
- 18 And we use that to leverage money from
- 19 the Province and the Feds to say, We're going to put
- 20 up this money and the Province came to the table with
- 21 some money and then it was Western Economic
- 22 Diversification from the Federal government, as well
- 23 as the Federal government opened a program, which was
- 24 very timely for us, the Aboriginal Skills and
- 25 Employment Training Program.

- 1 And so, all the organizations I
- 2 mentioned and the partner First Nations worked
- 3 together to submit the ASEPP proposal, and development
- 4 of that ASEPP proposal is where we all work together.
- 5 And the communities and organizations
- 6 themselves did their own assessments and worked with
- 7 Hydro and the other funders to -- at that time, which
- 8 was just Manitoba and Manitoba Hydro, to set targets.
- 9 So, primarily, the initial targets that
- 10 were set for HNTEI were set through the -- the
- 11 submission of the ASEPP proposal.
- 12 MS. JESSICA SAUNDERS: And, so, in
- 13 that proposal, is there a clear indication of what
- 14 those initial targets that you worked on with the
- 15 partners were for Keeyask?
- 16 MS. SHAWNA PACHAL: Well, you could
- 17 find those in the ASEPP proposal.
- MS. JESSICA SAUNDERS: Okay. So, the
- 19 funding commitments and funding amounts provided to
- 20 each Aboriginal partner you reference are indicated in
- 21 Manitoba Hydro Exhibit 91, and this is in response to
- 22 Undertakings 5 and 6 related to the breakdown of First
- 23 Nation and Metis costs in the projects, and that's
- 24 included at MMF Exhibit 28-2 at Tab 3, page 23.
- Oh, my apologies. You had it right,

- 1 Ms. Villegas. It was the last page you were at -- 19
- 2 -- yes.
- 3 When you look at the amounts for HNTEI,
- 4 you can confirm that approximately half of the HNTEI
- 5 funding, about 32 million, was provided to the KCNs.
- 6 Would you agree?
- 7 MS. SHAWNA PACHAL: That sounds about
- 8 right, just looking at it quickly.
- 9 MS. JESSICA SAUNDERS: But it's fair
- 10 to say that certain amounts from other Aboriginal
- 11 organizations like MKO or MMF would have gone to
- 12 training northern Aboriginal residents that could be
- 13 hired as northern Aboriginals.
- 14 Would you agree?
- MS. SHAWNA PACHAL: Your question is:
- 16 Could the MMF or the MKO have used the dollars that
- 17 they received to train members in the north as well as
- 18 the south?
- MS. JESSICA SAUNDERS: Yes.
- 20 MS. SHAWNA PACHAL: Yeah, for sure,
- 21 yeah.
- MS. JESSICA SAUNDERS: And if you
- 23 included those --
- MS. SHAWNA PACHAL: Oh, hang on. I
- 25 might -- hang on one (1) second.

4016 1 (BRIEF PAUSE) 2 3 MS. SHAWNA PACHAL: I believe my answer is correct. We'll -- if it's wrong we'll -somebody's going to double-check on that, but I believe it could be for both. Like, I think it didn't 7 just have to be MMF members in the north. 8 MS. JESSICA SAUNDERS: Okay. presumably there -- when you look there -- there's a 10 good chance that, of course, a lot of them were 11 northern --12 MS. SHAWNA PACHAL: I -- I can't -- I don't -- we'd have to check that. I don't know if 13 14 somebody would know the residency of which -- where 15 they were. 16 MS. JESSICA SAUNDERS: Okay. 17 Regardless of that though --18 MS. SHAWNA PACHAL: I'm assuming the 19 MMF would have those stats yourself about whether or not -- like where your members were from that you 21 trained. I'm assuming you would have that. I -- I 22 don't have that at -- at my fingertips, for sure. 23 MS. JESSICA SAUNDERS: Okay. And in 24 look -- going back to the training dollars for HNETI, 25 and that over half of them were for the KCNs, you can

- 1 agree then that over half of the total training
- 2 dollars were aimed at training in preparation for
- 3 Keeyask. Is that fair to say?
- 4 MS. SHAWNA PACHAL: No, it was for
- 5 Wuskwatim and Keeyask, and the hope was that some --
- 6 whether people were from Nisichawayasihk or from Cree
- 7 Nations or from one of our partners on Keeyask that
- 8 there would be potentially opportunities for them to
- 9 gain experience on Wuskwatim.
- 10 MS. JESSICA SAUNDERS: Is it fair to
- 11 say in looking at the Manitoba Hydro breakdown there
- 12 noted of the 20 million contribution, 15 million was
- 13 allocated to the Keeyask project, and 5 million to the
- 14 Wuskwatim project.
- So is it fair to say that Hydro was --
- 16 was preparing in this initiative for -- for Keeyask in
- 17 -- in great part?
- 18 MS. SHAWNA PACHAL: That's in terms of
- 19 how we budgeted the dollars for the projects.
- MS. JESSICA SAUNDERS: Okay.
- 21 MS. SHAWNA PACHAL: Not necessarily
- 22 where people were going to get their train -- which
- 23 project people were going to get their training on.
- 24 MS. JESSICA SAUNDERS: I'll refer back
- 25 the chart from IR 423c; that's at page 23. If we

- 1 could start at actually page 22, my apologies.
- This question posed by the PUB asked
- 3 for First Nation employment by community, but Manitoba
- 4 Hydro provided Aboriginal employment which included a
- 5 large number of Metis hires. And, so the table on the
- 6 next page indicates actual Aboriginal employment by
- 7 community for Keeyask up to September 30th, 2013.
- 8 Can you confirm, When would hiring have
- 9 begun for the individuals in this table?

10

11 (BRIEF PAUSE)

- MS. SHAWNA PACHAL: We'll check that
- 14 for you, and get back to you after the break on that
- 15 one. We're assuming based how the question was worded
- 16 that it's just the Keeyask construction project but
- 17 what I'm struggling with is that a number of -- of
- 18 people, particularly from our partner First Nations,
- 19 have been working on the project for a long time,
- 20 working on the Keeyask project so I don't know if
- 21 they're included in the numbers.
- So we'll just get our staff to check
- 23 that. If it's just the people who've worked on the
- 24 Keeyask infrastructure construction project, or if
- 25 it's since -- employment on Keeyask since we've been

- 1 working on -- in the planning phase on Keeyask.
- MS. JESSICA SAUNDERS: Thank you. Ms.
- 3 Pachal said she -- she would look and get back to us
- 4 after the break if -- not necessarily an undertaking,
- 5 but just how you -- okay. Thank you.
- And the heading identify the community
- 7 on this chart is Aboriginal community group. And so
- 8 almost all in this list indicate to First Nation or a
- 9 Cree Nations except for the reference to the ninety-
- 10 seven (97) Metis hires which denotes an Aboriginal
- 11 group.
- 12 Are you able to indicate the
- 13 communities that the Metis hires resided in?
- 14 MS. SHAWNA PACHAL: No, we're not.
- MS. JESSICA SAUNDERS: Okay.
- 16 MS. SHAWNA PACHAL: Would you like me
- 17 to explain why we're not?
- MS. JESSICA SAUNDERS: Please.
- 19 MS. SHAWNA PACHAL: Well, in our -- in
- 20 our system, when individuals get hired on to a project
- 21 they need to self-declare and they -- they need to
- 22 self-declare to the -- they need to -- this is a very
- 23 complicated issue. When -- when they applied to the
- 24 JRS and they want to get to hired to a project through
- 25 preference, they have to provide proof of their

- 1 status. So they have to provide proof through the JRS
- 2 system.
- 3 When they go to work on -- with the
- 4 contractor if they are hired and they fill out the
- 5 forms for the contractor, they only have to self-
- 6 declare. And I believe they self-declare by
- 7 community, but for Metis it's just Metis, so it's --
- 8 then it's self-declared. And so I don't believe it
- 9 identifies which Metis community they're from.
- MS. JESSICA SAUNDERS: Okay. And so,
- 11 of course, there would be no way of telling if it's
- 12 north or south?
- 13 MS. SHAWNA PACHAL: I don't believe
- 14 so.
- MS. JESSICA SAUNDERS: Okay. And in
- 16 the breakdown you're providing in the undertaking to
- 17 the PUB when this chart was discussed this morning, is
- 18 Hydro able to tell whether or not any of those Metis
- 19 hires in this chart would have successfully completed
- 20 training as part of HNTEI?
- 21 MS. SHAWNA PACHAL: I'm -- that's what
- 22 we are checking on, whether -- that's what I
- 23 undertook, to check to see if we're able to match this
- 24 chart up with -- we run into a lot of challenges
- 25 sometimes with privacy legislation in terms of what

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- 1 information we can and cannot get from which systems.
- 2 So we'll see if we're able to crosscheck this to the
- 3 HNTEI. That's what they're working on right now,
- 4 seeing if they can do that.
- 5 MS. JESSICA SAUNDERS: Okay. And my -
- 6 my question, to be fair, was just on, I -- I guess,
- 7 clarification from this morning on what was asked
- 8 specifically of HNTEI. Because I know in your
- 9 presentation you had mentioned there was people who
- 10 would have not -- started out with HNTEI or were
- 11 involved in HNTEI but didn't necessarily complete the
- 12 training as part of their involvement in it.
- So, of course, I was just wondering
- 14 what particular information on the participation of
- 15 the individual hires noted here would have been noted
- 16 for HNTEI, whether it was successful completion or
- 17 just involvement in?
- MS. SHAWNA PACHAL: Right. Again,
- 19 that's what we're checking. But for the Metis, the --
- 20 the Manitoba Metis Federation would actually have far
- 21 better records than we would. So you would be able to
- 22 see for your members much better than we would where
- 23 they were from and who they were.
- MS. JESSICA SAUNDERS: M-hm.
- 25 MS. SHAWNA PACHAL: You would have

- 1 much more complete information than we would.
- MS. JESSICA SAUNDERS: But we don't
- 3 have information on all of these hires though,
- 4 correct, because these are Manitoba Hy --
- 5 MS. SHAWNA PACHAL: Oh, I just meant
- 6 in terms of your HNTEI individuals.
- 7 MS. JESSICA SAUNDERS: Unsuccessfully
- 8 training, yeah. But on the hires, the -- the part
- 9 where Manitoba Hydro is looking at these -- these
- 10 people who've been hired --
- MS. SHAWNA PACHAL: Right.
- 12 MS. JESSICA SAUNDERS: -- and their
- 13 process of determining whether or not these people
- 14 have successfully completed HNTEI, that's not
- 15 something my client would know. So I'm just wondering
- 16 if that was --
- MS. SHAWNA PACHAL: That's what we're
- 18 checking.
- MS. JESSICA SAUNDERS: Okay.
- MS. SHAWNA PACHAL: Yeah.
- 21 MS. JESSICA SAUNDERS: Perfect. Thank
- 22 you. So -- and I -- I am going to attempt another
- 23 area, and it's likely something that you've discussed
- 24 this morning, but it's probably just going to be an
- 25 easy clarification for you.

4023 But you indicated that there was a 1 target of a hundred and eighty-two (182) hires for operational jobs for the KCNs over a twenty (20) year 3 timeframe in your presentation. 5 And were those -- was that target for the operational jobs just for Keeyask or was that 7 related to other projects, existing projects, as well? MS. SHAWNA PACHAL: It's for -- it 8 could be for our operations, not for projects, so it's related to the -- our operations, so it could be in 10 Killarney or Steinbach, or Thompson, or the The Pas, 11 12 wherever, in any of our six thousand (6,000) plus jobs 13 across the province. 14 MS. JESSICA SAUNDERS: In a number of 15 different projects? 16 MS. SHAWNA PACHAL: Well, not -- it's 17 not --18 MS. JESSICA SAUNDERS: Operations 19 might not be --20 MS. SHAWNA PACHAL: -- it's in 21 operations, right. 22 MS. JESSICA SAUNDERS: Yeah, okay. 23 24 (BRIEF PAUSE) 25

4024 MS. JESSICA SAUNDERS: You also 1 indicated that there was an additional amount allocated to ongoing job training in your 3 4 presentation. 5 Other than HNTEI, is there any ongoing 6 training with respect to Keeyask? 7 MS. SHAWNA PACHAL: There's no preproject training. There'll be on-the-job training at Keeyask. 10 MS. JESSICA SAUNDERS: Okay. 11 12 (BRIEF PAUSE) 13 14 MS. JESSICA SAUNDERS: So other than 15 on-the-job training, there's -- and then HNTEI, 16 there's no other training initiatives involved for Keeyask? 17 18 MS. SHAWNA PACHAL: I talked this 19 morning about the nor -- the pilot pro -- the Northern Construction Trades Training Pilot Project that we're 21 working on with Manitoba -- the Northern Manitoba 22 Sector Council. 23 MS. JESSICA SAUNDERS: And that's 24 particular to apprenticeship hours, correct? 25 MS. SHAWNA PACHAL: That'll be

- 1 specific to apprentice designated trade positions,
- 2 yeah.
- 3 MS. JESSICA SAUNDERS: Thank you. And
- 4 your work with that, does -- is that specific to KCN
- 5 jobs with Keeyask or is that all Aboriginal?
- MS. SHAWNA PACHAL: My recollection,
- 7 subject to check, is that the KCN would have a
- 8 preference in terms of it would be weighted. When
- 9 we're looking at finding the best candidate and who we
- 10 think would be the best candidates for these trial
- 11 positions, being a member of our partner community
- 12 would -- would be a weighting factor in that, for
- 13 sure.
- 14 MS. JESSICA SAUNDERS: Okay. So thank
- 15 you. I believe I will now move on to another area.
- 16 On --
- 17 MS. SHAWNA PACHAL: Can I just add --
- 18 sorry, Ms. Saunders, I just wanted to add on the -- so
- 19 far on the Keeyask on-the-job training opportunities
- 20 to date on the Keeyask infrastructure project there
- 21 have been a hundred and thirty-five (135) on-the-job
- 22 training opportunities to date.
- 23 DR. HUGH GRANT: Could I -- before you
- 24 leave this topic, I'm wondering if I could just ask a
- 25 question about this table we're looking at.

4026 I think the request was for information 1 on employment and this refers to hires. And I'm just -- I guess as much as I'm interested in the transition 3 from the training to the hiring stage, and I understand why that data is sort of easier to collect. 6 Do you have information in terms of hires and their length of employment? So in other words, if the question was: Could you provide the same table with person days of employment, would that 10 exist? 11 12 (BRIEF PAUSE) 13 14 MS. SHAWNA PACHAL: I would have to 15 check with our -- our inde -- the -- my colleagues in the construction area who collect this data, whether or not that would be something we would have. Jane's 17 18 just pointing out it could be a bit of a challenge 19 because some of them are still working, and then -- so we don't actually get -- it -- it's some technical 21 type issues. But let me check with the -- the individuals to see if that's something we could 22 23 potentially do. 24 DR. HUGH GRANT: I mean, the reason... 25 MS. SHAWNA PACHAL: So I'll undertake

4027 to determine whether or not on this table, Table PUB/MH-2-423c, because -- to see if we would be able to re-frame this in terms of person years as opposed 3 to hires. Yes. We'll -- we'll talk to individuals to see if we can do that. 6 --- UNDERTAKING NO. 72: Determine whether or not on 7 Table PUB/MH-2-423c if 8 9 Manitoba Hydro would be 10 able to re-frame this in 11 terms of person years as 12 opposed to hires 13 14 DR. HUGH GRANT: I'm -- I'm just --15 sort of failing that, I guess what I'm just trying to 16 get a sense of is if you just look at this, it would 17 appear that non-Aboriginal hires make up about a third 18 of total hires. And -- and that -- what I'm trying to 19 get a better sense of is in terms of total employment, basically whether one (1) group is drawing a -- a more 21 sort of casual labour and the other a more permanent labour. That's what --22 23 MS. SHAWNA PACHAL: My -- my thought 24 would be that's not necessarily going to be a case, 25 because a lot of this is on the direct negotiated

- 1 contracts which -- which are our partners. So my --
- 2 my sense would be that's not going to be the case.
- 3 These numbers will -- would probably line up fairly
- 4 closely with -- in terms of the one-third (1/3) isn't
- 5 getting two-thirds (2/3) of the hours.
- 6 But we'll check and see what we can do
- 7 on that.
- DR. HUGH GRANT: And -- and so just a
- 9 last point, again, failing the ability to get this
- 10 information, would it be your impression that the non-
- 11 partnered groups would be less likely -- I mean, the
- 12 intensity of employment would be less for those
- 13 groups, or not?
- 14 Someone from War Lake, for example, a -
- 15 a hire there may tend to work -- have more
- 16 employment hours than someone from under the Metis
- 17 category, for example?
- 18 MS. SHAWNA PACHAL: I -- I don't think
- 19 we could say that.
- DR. HUGH GRANT: Okay, thanks.
- 21
- 22 CONTINUED BY MS. JESSICA SAUNDERS:
- 23 MS. JESSICA SAUNDERS: Thank you, and
- 24 then before I leave this, I guess what you had last
- 25 indicated to me was the hundred and thirty (130) --

- 1 the amount of a hundred and thirty-five (135) for on-
- 2 the-job training for the Keeyask infrastructure, those
- 3 -- that amount is -- can -- can you go back to that
- 4 again, just to clarify the one hundred and thirty-five
- 5 (135) on-the-job training?
- 6 What -- what was that amount for?
- 7 MS. SHAWNA PACHAL: That -- that's
- 8 right. It's a -- a total trainees hired to date on
- 9 the Keeyask project has been one hundred and thirty-
- 10 five (135).
- MS. JESSICA SAUNDERS: And so they're
- 12 going to be getting on-the-job training, and are you
- 13 able to identify how much of those are -- those one
- 14 thirty-five (135) so far for the Keeyask
- 15 infrastructure are going to be getting that -- that
- 16 training and -- and have been hired, the breakdown
- 17 between Metis and -- and KCNs -- or other Aboriginal
- 18 groups, I should say, versus KCNs?
- 19 MS. SHAWNA PACHAL: The KCNs have a
- 20 hundred and one (101) of those opportunities, and the
- 21 other thirty-four (34) are made up of -- from other
- 22 groups. So the -- the Keeyask Cree Nations have a
- 23 hundred and one (101) of those opportunities.
- 24 MS. JESSICA SAUNDERS: And the other
- 25 groups, it's just kind of other, or is it other

PUB re NFAT 03-26-2014 4030 Aboriginal? 2 It's just other. MS. SHAWNA PACHAL: 3 MS. JESSICA SAUNDERS: Other? Okay. So now moving on, I'll refer back to the chart at Tab 5 3 on page 18 of MMFs book of documents. 6 And Mr. Wojczynski, we know from PUB 7 counsel's questions to you this morning that updated information on mitigation was included in the capital cost estimates for Keeyask and Conawapa that haven't already been provided in the NFAT, correct? 10 11 MR. ED WOJCZYNSKI: Correct. 12 MS. JESSICA SAUNDERS: Have those 13 revisions to the capital costs for Keeyask and 14 Conawapa with respect to mitigation been reflected in 15 this chart? 16 17 (BRIEF PAUSE) 18 19 MR. ED WOJCZYNSKI: The -- the -these costs in here do inclod -- include all of the 21 mitigation costs at that point. The costs that were 22 missing that I was referring to earlier today were the 23 ones after construction was completed. In -- in the

completed in about '22, Conawapa when it was completed

case of Keeyask, after Keeyask construction was

24

- 1 in about '28.
- 2 But all the mitigation costs prior to
- 3 those two (2) dates were all included, and these are
- 4 the costs to date of December 13. So they -- the --
- 5 all the costs that should have been included are
- 6 included in here.
- 7 MS. JESSICA SAUNDERS: Thanks for
- 8 clarifying that. And again on this chart, the
- 9 participating party costs are noted as including
- 10 process, mitigation, transition and implementation
- 11 costs to December 2013.
- 12 And so, firstly for Conawapa, and --
- 13 and then I guess, secondly, for Keeyask, you've just
- 14 indicated that all of the costs are included here to
- 15 December 2013, and this may be asking for a bit too
- 16 much, but have there been any updates to these numbers
- 17 that you're aware of since December 2013?

18

19 (BRIEF PAUSE)

- 21 MS. SHAWNA PACHAL: No. In my book,
- 22 those are the date -- the numbers I have are up till
- 23 tho -- the December 31, 2013 are the most current that
- 24 I have in front of me.
- MS. JESSICA SAUNDERS: And, so, while

- 1 the participating party costs include mitigation, if
- 2 you look to, for instance, the amount indicated for
- 3 the Manitoba Metis Federation for Keeyask, there's no
- 4 mitigation measures in place with respect to the MMF
- 5 for Keeyask, correct?
- 6 MS. SHAWNA PACHAL: Well, actually, I
- 7 -- I wouldn't say that. There's a number of
- 8 mitigation measures associated with the project, that
- 9 if there is a Metis resource user in that area, they
- 10 would benefit from that sort of a mitigation.
- 11 So, for example, one (1) of our
- 12 mitigation measures is waterways management, and that
- 13 takes place regardless, and so that would be a
- 14 mitigation measure that's a cost included in the
- 15 project, and anybody from another community or a Metis
- 16 resource harvester would benefit from -- from that
- 17 sort of a mitigation measure.
- 18 MS. JESSICA SAUNDERS: Right. And so
- 19 you've included -- you've discussed general measures,
- 20 but these costs in this chart refer specifically to
- 21 the costs for Metis and First Nation involvement, and
- 22 so it -- it might perhaps assist me further if you
- 23 could just explain, then, what is included in the
- 24 Manitoba Metis Federation costs indicated for Keeyask
- 25 there, and whether or not those include mitigation

- 1 costs?
- MS. SHAWNA PACHAL: Well, I don't
- 3 believe that to date, Manitoba Hydro has received the
- 4 MMF's study of traditional land use and knowledge
- 5 study of the Keeyask area, and so at this point, based
- 6 on all our research and our knowledge, and based on
- 7 the federal government's assessment as well in the
- 8 CSR, they believe we have all the mitigation in place
- 9 that we need to have for the project. They're
- 10 satisfied with what we have in place, and so I don't
- 11 envision any additional mitigation for that project
- 12 specifically.
- 13 And in terms of -- for Keeyask
- 14 specifically, in terms of the process costs that are
- 15 on there, we are -- the cost with Keeyask and Conawapa
- 16 with the Manitoba Metis Federation, this won't be an
- 17 exhaustive list, but it would include things like
- 18 paying for the traditional land use and knowledge
- 19 study, funding different processes that Manitoba Hydro
- 20 has with the MMF to meet and talk about the projects,
- 21 Ms. Marci Riel, who's sitting beside Ms. Saunders, is
- 22 the Manitoba Hydro liaison officer, and Manitoba Hydro
- 23 funds her salary.
- 24 So those are the kinds of costs that
- 25 you would see portions of that we -- we allocated to

- 1 different projects, but portions of that would be seen
- 2 across the -- in those costs. Now that -- I won't
- 3 have included everything, but that would be sort of
- 4 probably the big chunks that make up those dollars.
- 5 MS. JESSICA SAUNDERS: Okay. And you
- 6 mentioned the federal process, and that you indicated
- 7 Hydro is likely -- well, Hydro is satisfied that
- 8 mitigation, say with respect to the Metis, has been
- 9 somewhat dealt with, but in the event that the MMF
- 10 disagrees, or that there's the need for additional
- 11 mitigation measures, those, of course, are measures
- 12 that aren't included in here.
- 13 And I know you had indicated that the
- 14 partnership was committed to considering that
- 15 information, but at this current time, there --
- 16 there's no mitigation measures right now, and -- but
- 17 there may be at -- at some point in -- in the future.
- 18 Is that correct?
- 19 MS. SHAWNA PACHAL: Well, this chart
- 20 is actual cost to-date, and so I -- I think in terms
- 21 of the MMF, there is -- is -- my -- my recollection
- 22 that none of the dollars associated with the Manitoba
- 23 Metis Federation to date include mitigation.
- 24 MS. JESSICA SAUNDERS: Thank you. And
- 25 moving to another area, and I do believe it's my last

4035 one, Chair Gosselin questioned the panel on how effects are dealt with in transmission projects, and the panel explained that there was a difference in how 3 effects under generation and transmission are dealt with, correct? 6 MS. SHAWNA PACHAL: That's right. 7 MS. JESSICA SAUNDERS: And the panel confirmed that routing or siting, specifically consultation on particular -- or on potential routes 10 is an option for dealing with any potential effects at 11 the outset, correct? 12 MS. SHAWNA PACHAL: That's correct. 13 MS. JESSICA SAUNDERS: Further, that once the line is constructed, and if there are any 14 15 other effects, monitoring is then done to see what 16 effects are, and then offsetting programs are looked at, correct? 17 18 So it goes routing -- routing and 19 siting, at the outset, and then if there's anything 20 beyond that, offsetting programs would be looked at, 21 as well as ongoing monitoring. 22 Is that fair to say? 23 24 (BRIEF PAUSE) 25

4036 MS. SHAWNA PACHAL: I was just trying 1 to get my -- my correct words, so they've been emailed to me, because they -- the other day when I said, 3 "offsetting," we use that terminology in our company to refer to specific programs associated with our adverse effects arrangements under generation. And so 7 that's not the nomenclature the transmission people use, and so I was getting beaten up upstairs for a while over that. So I wanted to make sure I got it 10 right today. 11 The -- so that's -- the -- it's right, but it -- what -- what you said is correct. It's 13 primarily what we try and do is look for an alternate route selection to avoid a sensitive environmental 14 15 area, and then -- or a culturally sensitive area, and 16 then we look at mitigation and monitoring. 17 MS. JESSICA SAUNDERS: Okay. 18 confirm what, if anything, is being done in the JKDA 19 for any potential transmission impacts for Keeyask? 20 21 (BRIEF PAUSE) 22 23 MS. SHAWNA PACHAL: I -- none of us could think of anything, but it's been a few years 24 25 since we negotiated that, but I -- can anybody think

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4037
  of anything?
 2
 3
                          (BRIEF PAUSE)
 5
                   MS. JESSICA SAUNDERS: Yes. What, if
   anything, is being done to deal with any potential
 7
    impacts? I know that the transmission, of course, is
   different from the Keeyask project, but...
 9
10
                          (BRIEF PAUSE)
11
                   MS. SHAWNA PACHAL: So the -- there is
12
13
   nothing in the JKDA, we're just confirming that,
   associated with Keeyask transmission, and there are
14
15
   activities underway right now looking at Keeyask
   transmission and the associated issues with that, and
16
   -- and dealing with that.
17
18
                   MS. JESSICA SAUNDERS: Are you able to
19
   say what kind of activities?
20
21
                          (BRIEF PAUSE)
22
23
                   MS. SHAWNA PACHAL: We -- I need to
24
   just double check on where the -- on that -- on the
25
   answer to that specifically, so I will do an
```

- 1 undertaking to get back to you after the break on what
- 2 exactly is going on, on Keeyask transmission right
- 3 now. I'm not fully up to speed on it.
- 4 MS. JESSICA SAUNDERS: Would I also be
- 5 able to ask, then, for any activities being undertaken
- 6 for considering transmission impacts for Conawapa, and
- 7 then, as well, the 500 kV line, so the components that
- 8 make up the PDP?
- 9 MS. SHAWNA PACHAL: So you're asking
- 10 what activities for each of those components is
- 11 underway right now?
- 12 MS. JESSICA SAUNDERS: To deal with
- 13 potential transmission effects.
- 14 MS. SHAWNA PACHAL: Okay. So I'll
- 15 undertake to find out what on -- what on Keeyask,
- 16 Conawapa, and the 500 line are -- activities are
- 17 currently underway to look at what we're doing it --
- 18 with associated impacts. Okay.
- MS. JESSICA SAUNDERS: Thank you.

- 21 --- UNDERTAKING NO. 73: Manitoba Hydro to find out
- 22 what activities on Keeyask,
- Conawapa, and the 500 kV
- 24 line are currently
- 25 underway, looking at

4039 1 associated impacts 2 CONTINUED BY MS. JESSICA SAUNDERS: 3 MS. JESSICA SAUNDERS: 4 And can you explain what model was utilized for dealing with transmission effects in Wuskwatim? 7 MS. SHAWNA PACHAL: Sorry, I -- I need you to repeat that. 9 MS. JESSICA SAUNDERS: Can you explain 10 what model, I guess, was utilized for dealing with 11 transmission effects in Wuskwatim? 12 MR. ED WOJCZYNSKI: When you say, 13 "model," could you explain what you mean by that -- by 14 the term 'model'? 15 MS. JESSICA SAUNDERS: Yeah. Well, we discussed -- well, Ms. Pachal, in her presentation, 17 and just now, we discussed that there was routing and 18 siting at the outset that would hopefully deal with 19 any potential issues in avoiding certain significant areas, that there's the ability to do that. 21 But then as well, I'm just wondering 22 what, if anything, was done in Wuskwatim in terms of 23 dealing with transmission effects? 24 MR. ED WOJCZYNSKI: Well, we -- we --25 there's two (2) issues. One is with the Wuskwatim

- 1 transmission, we would -- we use the same process of
- 2 consulting on what the impacts would be, and -- and
- 3 the -- the best routing of the transmission. And I
- 4 recall that, actually, the routing of the transmission
- 5 and the access road was significantly influenced by
- 6 the feedback and input we got. So that's one (1)
- 7 issue, and that would be the same as we'd be doing for
- 8 the Keeyask generation outlet, or Conawapa outlet
- 9 transmission for that matter.
- 10 But I also believe you also include the
- 11 word 'PDA' in that, and so I -- I -- that's why I was
- 12 wondering. The -- the approach we used would have
- 13 been similar in terms of impacts of transmission.
- 14 MS. JESSICA SAUNDERS: So in the PDA,
- 15 is there anything else other than the routing that was
- 16 dealt with in terms of compensation for transmission
- 17 impacts?

18

19 (BRIEF PAUSE)

- 21 MR. ED WOJCZYNSKI: Yeah, in the -- in
- 22 Wuskwatim, and this is different than the JKDA, we did
- 23 include the transmission as a -- I don't want to call
- 24 it -- it's almost a side issue in the PDA, but the
- 25 issue we are dealing with there wasn't compensation.

- 1 It was -- it was the development fund, and it was the
- 2 -- the development fund portion of -- associated with
- 3 NCN, so it was convenient to include those at that
- 4 time in the one (1) agreement rather than separately,
- 5 but that wasn't compensation. That was a development
- 6 fund.
- 7 MS. JESSICA SAUNDERS: Can you explain
- 8 a little bit about, then, what was involved with the
- 9 development fund?
- 10 MR. ED WOJCZYNSKI: Just in the
- 11 broadest terms, and we'd have to get some other
- 12 expertise here to recall the details of that, but what
- 13 there was was depending on the length of the
- 14 transmission line, that is in the area of the
- 15 community that we're referring to, there is a certain
- 16 portion of -- certain portion of money provided to the
- 17 loc -- I'm hearing voices.
- MS. JESSICA SAUNDERS: You're on a
- 19 role, don't stop now.
- 20 MR. ED WOJCZYNSKI: There's a certain
- 21 portion -- it's not somebody whispering in my ear
- 22 either. A certain portion of money allocated to the
- 23 community that is in the vicinity of that portion of
- 24 transmission line that is used by that community for
- 25 community development of some sort, but I -- I don't

- 1 remember the quantums. I don't remember the -- the
- 2 terms and conditions associated with it, and that's
- 3 done on an annual basis.
- And as I recall, it wasn't just NCN.
- 5 There were other communities who -- down -- down the
- 6 road on the transmission line who also have a similar
- 7 arrangement, but those would not have been covered in
- 8 the PDA, because this was -- the PDA is between
- 9 Manitoba Hydro and NCN.
- 10 MS. JESSICA SAUNDERS: Okay. And so
- 11 you've confirmed that there's nothing of this sort in
- 12 the JKDA right now, but would this potentially be
- 13 something that would be discussed for Keeyask and
- 14 Conawapa and the 500 kV line as part of the PDP?

15

16 (BRIEF PAUSE)

- MS. SHAWNA PACHAL: The Company's
- 19 currently assessing what its options might be in
- 20 regards to the other -- other lines.
- 21 MS. JESSICA SAUNDERS: Okay. Would it
- 22 be fair to ask for an undertaking to provide further
- 23 information on what was done with respect to
- 24 transmission impacts in the PDA for Wuskwatim? And of
- 25 course, I would only do that if it's of any

4043 assistance, but I just want to get an -- an understanding of -- there's currently nothing in the JKDA that deals with transmission effects, and nothing yet for Conawapa or the 500 kV line. I just want to get a sense of what has been done in previous projects with respect to considering transmission effects. 7 MR. ED WOJCZYNSKI: Previous projects being Wuskwatim, or -- or -- Wuskwatim? 9 MS. JESSICA SAUNDERS: Wuskwatim, yes. 10 The PDA. 11 MR. ED WOJCZYNSKI: Yeah. Yeah. We 12 can... 13 14 (BRIEF PAUSE) 15 16 MS. JESSICA SAUNDERS: And further, 17 before I -- terms and quantum as well within that. 18 19 (BRIEF PAUSE) 20 21 MR. ED WOJCZYNSKI: Well, we can 22 provide a brief summary of what the arrangement was on Wuskwatim, and I -- I stand corrected that a -- a 24 slight tweak what I said earlier about Wuskwatim and -

25 - and the transmission.

4044 We -- we have -- we talked about the 1 development fund in there, but there was also some discussion separately -- it's -- it's not for the 3 development fund itself, but in terms of transmission issues, there was also some discussion in the PDA. 6 But we'll give a -- a brief summary of -- of what was done there as an undertaking. Yes, the undertaking is Manitoba Hydro will provide a -- a brief summary of what was said in the PDA -- Wuskwatim PDA regarding transmission. 10 11 12 --- UNDERTAKING NO. 74: Manitoba Hydro to provide a 13 brief summary of what was 14 said in the Wuskwatim PDA 15 regarding transmission, 16 including details of the 17 financial arrangements on a 18 yearly basis 19 20 CONTINUED BY MS. JESSICA SAUNDERS: 21 MS. JESSICA SAUNDERS: I may be asking for too much again, but would I be able to have 22 23 included in that undertaking, details of the financial 24 arrangements on a yearly basis? 25 MR. ED WOJCZYNSKI: That's -- that is

4045 all part of the record. In any event, we'll -- we'll give a brief summary of that in there. 3 MS. JESSICA SAUNDERS: Okay, thank you. Those are all my questions. 5 6 (BRIEF PAUSE) 7 THE CHAIRPERSON: Thank you, Ms. Saunders. Appropriate time, I think, to take a break. Let's take ten (10), and then we can turn the 10 11 microphone over to Mr. Williams. 12 13 --- Upon recessing at 3:19 p.m. 14 --- Upon resuming at 3:33 p.m. 15 THE CHAIRPERSON: I believe that we're 16 ready to resume the proceedings. Are there documents 17 18 to acknowledge or ...? 19 MR. BYRON WILLIAMS: Yes, good 20 afternoon, Mr. Chair. 21 THE CHAIRPERSON: Mr. Williams, before 22 you start --23 MS. PATTI RAMAGE: Oh, Ms. Pachal has 24 something just to clean up with the MMF's questions. 25 MS. SHAWNA PACHAL: I -- oh, there's

- 1 Ms. Saunders. So, Ms. Saunders, in terms of that
- 2 table that you'd referenced on page 23 of your book of
- 3 documents, the table with the MMF and the other
- 4 twenty-one (21) First Nations, it includes employment
- 5 for the KCNs in the pre-construction phase in some of
- 6 the DNCs, as well as the Keeyask infrastructure
- 7 project, and for everyone else, it is for the Keeyask
- 8 infrastructure upgrades -- Keeyask infrastructure and
- 9 PR 280 upgrades. Okay.

10

11 (BRIEF PAUSE)

- 13 THE CHAIRPERSON: There's one (1)
- 14 other matter that I would like to address before I
- 15 turn over the microphone to -- to Mr. Williams.
- 16 Manitoba Hydro has indicated to the
- 17 panel this morning that it does not expect to file the
- 18 updated financial information until tomorrow or, at
- 19 worst, this Monday. Ah, sorry, at worst -- until this
- 20 Friday -- sorry, thank you -- and, at worst, Monday.
- The panel has some concerns around that
- 22 timing. Currently, the Manitoba Hydro panel is
- 23 scheduled to come back on April the 4th to meet with
- 24 the panel. However, that was based on the assumption
- 25 that the financials would be filed on March 24th.

PUB re NFAT 03-26-2014

- 1 The panel urges Manitoba Hydro to file
- 2 the information as soon as possible so that the
- 3 parties have an opportunity to digest the information,
- 4 have the expected review and analysis completed, and
- 5 to prepare to cross-examination.
- 6 Currently, the hearing schedule does
- 7 not have any spare days at all in case the return date
- 8 from Manitoba Hydro's financial panel is moved. So if
- 9 we have to move the -- the date of that session with
- 10 the panel, there are no -- no other days available
- 11 unless we sit on a Saturday.
- We're quite prepared to sit on a
- 13 Saturday if that will allow us to thoroughly review
- 14 the information, so I'll put the parties on notice
- 15 that if we have to, we will sit on a Saturday to -- to
- 16 examine the -- the new information that will be
- 17 received. Hopefully that will not be necessary, but
- 18 that depends on when the information is received.
- 19 MR. ED WOJCZYNSKI: Mr. Chair, on
- 20 behalf of Manitoba Hydro, let me say that we do
- 21 appreciate that us not being able to provide the --
- 22 the first batch of financial analysis on the 24th, and
- 23 then the others, as per the schedule, and that it's --
- 24 let's just say it is this Friday that that does
- 25 decrease the amount of time available for people to

- 1 analyze that before the cross-examination day of the
- 2 4th, and we apologize for that, and -- and do
- 3 understand the difficulty it creates.
- 4 And I will relay on to the team working
- 5 on it, too. I -- I know they feel -- understand and
- 6 appreciate the importance of getting it done as
- 7 quickly as possible, but I will reconfirm that for
- 8 them.
- 9 THE CHAIRPERSON: Thank you, Mr.
- 10 Wojczynski. Over to you, Mr. Williams.
- MR. BYRON WILLIAMS: Yes, thank you,
- 12 Mr. Chair. I have just two (2) exhibits that I'd like
- 13 to introduce, I'm assuming with the consent of
- 14 Manitoba Hydro. One is CAC Exhibit 45-7, which is --
- 15 should have two (2) tabs in it, the Deloitte Wuskwatim
- 16 Training and Employment Initiatives Evaluation Report,
- 17 as well as an addendum.

18

- 19 --- EXHIBIT NO. CAC-45-7: Deloitte Wuskwatim Training
- 20 and Employment Initiatives
- 21 Evaluation Report plus
- 22 addendum

- 24 MR. BYRON WILLIAMS: And secondly, a -
- 25 a less thick volume, Exhibit CAC-45-8, which should

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4049
   include eleven (11) -- eleven (11) tabs. So we'd ask
   that those be marked as exhibits.
 3
   --- EXHIBIT NO. CAC-45-8: Volume with eleven (11)
 5
                                tabs
 6
 7
                          (BRIEF PAUSE)
 9
                   MR. BYRON WILLIAMS: We'll just let
10
   Hydro get its paper copies distributed.
11
12
                          (BRIEF PAUSE)
13
14
                   MR. BYRON WILLIAMS: And Mr. Chair, I
15
   -- I actually have some -- I don't think it's a fan
16
   club -- club for me. I think they all wanted to hear
   Ms. Saunders speak ahead of me, but my client, Ms.
17
18
   Desorcy, is here in -- in my back row. My colleague,
   M. Aimee Craft, is -- is here. You'll be seeing her
   later in the -- in the hearing when we present some of
   our witnesses.
21
22
                   Joelle Pastora Sala, our articlings --
   one (1) of our articling students-at-law is a visitor
24
   today. And also, I think we have Mr. Kelly Olson,
   who's a student at the Faculty of Law, and he's got
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- 1 the much sought after public interest law centre
- 2 internship, for credits, I might add. I think that's
- 3 why he's here.
- So I welcome them all, and I hope Ms.
- 5 Saunders put on an appropriate show, so -- giving me
- 6 far too much to live up to.

- 8 CROSS-EXAMINATION BY MR. BYRON WILLIAMS:
- 9 MR. BYRON WILLIAMS: The panel may
- 10 have noticed that I was not here for all of this
- 11 morning. I just want to assure the panel that my
- 12 colleague, Ms. Menzies, was sending me regular updates
- 13 on Twitter, or whatever it was, and I'm certainly
- 14 familiar with Ms. Kapitany and Mr. Hombach's
- 15 discussion with Hydro on training, and I'm going to
- 16 ask a few more questions about that.
- But I think that Mr. Hombach did cut
- 18 down on a lot of my sturgeon questions, so I'm sure
- 19 Mr. Wojczynski and -- will be very grateful for that
- 20 as well. There might be a couple, just -- just for
- 21 fun.
- 22 And -- and just finally, to Elder
- 23 Spence, Mr. Bland, and -- and Ms. Anderson, I have
- 24 some questions for you later on. Some of my original
- 25 -- early questions will be for the -- the other Hydro

- 1 witnesses. If you feel that you want to chip in and,
- 2 you know, take some shots with me or have me -- or
- 3 give me some friendly evidence, you're -- you're
- 4 always welcome to -- to participate.
- 5 Ms. Kidd-Hantscher, you'll recall you
- 6 had a discussion with My Learned Friend Mr. Hombach
- 7 yesterday about employment years. You recall that
- 8 conversation?
- 9 MS. JANE KIDD-HANTSCHER: Yes.
- 10 MR. BYRON WILLIAMS: And you provided
- 11 to us today the very helpful exhibit, Manitoba Hydro
- 12 Exhibit 132, earlier today, agreed?
- 13 MS. JANE KIDD-HANTSCHER: Yes.
- 14 MR. BYRON WILLIAMS: And I was -- I
- 15 was there for that part of the conversation, but I'm
- 16 going to ask you to assist me a bit further in this
- 17 conversation, but one (1) of your points from
- 18 yesterday was that the understanding of the employment
- 19 year in the JKDA may be somewhat different from the
- 20 way that term is used elsewhere by Manitoba Hydro.
- 21 Would that be fair?
- MS. JANE KIDD-HANTSCHER: Yes.
- 23 MR. BYRON WILLIAMS: And in addition,
- 24 one (1) of the points you made today was that when
- 25 you're looking at employment years within the JKDA,

- 1 you were referring both to the Keeyask Generation
- 2 Project as well as the Keeyask Infrastructure Project,
- 3 agreed?
- 4 MS. JANE KIDD-HANTSCHER: Agreed, as
- 5 well as other work that's gone on since 2009 that
- 6 predated the Keeyask Infrastructure Project.
- 7 MR. BYRON WILLIAMS: And just as I try
- 8 and follow the marching employment year definition, I
- 9 would be correct in suggesting to you that for the
- 10 purposes of Wuskwatim, you were using the definition
- 11 of two thousand (2,000) hours being the equivalent of
- 12 -- of one (1) employment year?
- Would that be fair?
- 14 MS. JANE KIDD-HANTSCHER: For
- 15 reporting purposes, yes, that would be fair.
- 16 MR. BYRON WILLIAMS: And when we come
- 17 later to the Deloitte report, we will -- when we see
- 18 employment years in that context, that will be based
- 19 on that two thousand (2,000) hours as the equivalent
- 20 of one (1) employment year, agreed?
- 21 MS. JANE KIDD-HANTSCHER: Yes, that's
- 22 correct.
- 23 MR. BYRON WILLIAMS: And then in some
- 24 of the reporting that Manitoba Hydro will be doing
- 25 with regard to the Keeyask Generation Project, it will

- 1 be using a -- a definition of an employment year
- 2 employing the three thousand (3,000) hours.
- 3 Am I correct for that?
- 4 MS. JANE KIDD-HANTSCHER: Well, as I
- 5 indicated in the undertaking, we're going to do both
- 6 the three thousand (3,000) and two thousand (2,000)
- 7 person year -- or -- or hours per year reporting for
- 8 the Keeyask Project.
- 9 MR. BYRON WILLIAMS: But when I see
- 10 that figure of four thousand two hundred and eight
- 11 (4,208) associated with employment years for Keeyask,
- 12 that indeed is based upon the three thousand (3,000)
- 13 hours, agreed?
- 14 MS. JANE KIDD-HANTSCHER: Agreed.
- 15 MR. BYRON WILLIAMS: Which leaves us
- 16 with the definition in the joint Keeyask development
- 17 agreement in terms of employment year, and I know
- 18 you've helpfully applied it in Exhibit 132, and so I
- 19 wonder if we can turn to page one (1) -- 109 marked in
- 20 the bottom right-hand corner of that exhibit.
- 21 MS. JANE KIDD-HANTSCHER: I have it.
- MR. BYRON WILLIAMS: And before us,
- 23 Ms. Kidd, and that's very -- that's perfect, where --
- 24 the -- where the page is presented, we -- we see part
- 25 of Section 12.6.3 of the JKDA, being the Joint Keeyask

- 1 Development Agreement, agreed?
- MS. JANE KIDD-HANTSCHER: Agreed.
- 3 MR. BYRON WILLIAMS: And if we focus
- 4 for a moment just on (d), am I correct in suggesting
- 5 to you that when we're looking at person years of
- 6 employment on the Keeyask Project, those shall be
- 7 calculated as any twelve (12) individual months of
- 8 employment by one (1) or more members, regardless of
- 9 whether such months of employment are consecutive or
- 10 not, and are -- are in the same job or different jobs?
- 11 Am I right there?
- 12 MS. JANE KIDD-HANTSCHER: You are
- 13 right in the context of this negotiated target number,
- 14 not in the context, as I had already explained, of
- 15 overall reporting on the project.
- 16 MR. BYRON WILLIAMS: But when we're
- 17 seeking to understand what the target of six hundred
- 18 and thirty (630) employment years means, this is
- 19 integral to its defin -- definition, Ms. Kidd?
- 20 MS. JANE KIDD-HANTSCHER: It is
- 21 integral to its definition in terms of whether we meet
- 22 this target, yeah, in the context of it being in the
- 23 development agreement.
- 24 MR. BYRON WILLIAMS: Yes. So when we
- 25 look at whether you've met this target, this will be -

- 1 this will -- this Section 12.63 will -- will provide
- 2 the definition of employment year, agreed?
- 3 MS. JANE KIDD-HANTSCHER: In terms of
- 4 meeting this target, yes.
- 5 MR. BYRON WILLIAMS: Thank you. If we
- 6 could just flip to page -- the previous page, being
- 7 one-o-eight (108), marked in the bottom right-hand
- 8 corner, and scroll down just a little bit on the
- 9 screen. That's perfect.
- 10 I know Ms. Pachal does not like to use
- 11 the word 'target,' but there we see it articulated.
- 12 So, Ms. -- Ms. Pachal, you'll forgive me if -- if I
- 13 use the words from the JKDA, and here we see the
- 14 commitment to a total of six hundred and thirty (630)
- 15 person years of employment as defined in the JKDA,
- 16 agreed?
- MS. JANE KIDD-HANTSCHER: Agreed.
- 18 MR. BYRON WILLIAMS: And if we scroll
- 19 down just a little bit more on this page, please, to -
- 20 right towards the bottom. Keep going, please.
- 21 Perfect. Thank you. We see here that the -- the
- 22 target -- or let me explain my understanding to you.
- 23 That target relates to the Keeyask
- 24 Infrastructure Project, the generation projects, and
- 25 any other work undertaken prior to the initiation of

- 1 the -- between the signing of the JKDA and the -- and
- 2 the initiation of the infrastructure project.
- 3 Do I have that right?
- 4 MS. JANE KIDD-HANTSCHER: Yes. As I
- 5 indicated in the undertaking this morning, it would be
- 6 any employment since 2009, when the Development
- 7 Agreement was signed under those various categories.
- MR. BYRON WILLIAMS: And when we're
- 9 looking at -- at -- it would include work performed on
- 10 the direct negotiated contracts, agreed?
- MS. JANE KIDD-HANTSCHER: Absolutely.
- 12 MR. BYRON WILLIAMS: It would include
- 13 work for a contractor under a tendered contract as
- 14 well, correct?
- 15 MS. JANE KIDD-HANTSCHER: Yes.
- 16 MR. BYRON WILLIAMS: And obviously, it
- 17 would include work for the project manager.
- 18 Is that right?
- 19 MS. JANE KIDD-HANTSCHER: Yes.
- 20 MR. BYRON WILLIAMS: So the six
- 21 hundred and thirty (630) person years of employment
- 22 target contemplates work under the direct negotiated
- 23 contracts, or under the tendered contracts, agreed?
- 24 MS. JANE KIDD-HANTSCHER: Those as
- 25 well as the others listed in (iii) through (v).

- 1 MR. BYRON WILLIAMS: And for the
- 2 purposes of generating estimates of the person years
- 3 of employment for the -- I'm going to use the acronym
- 4 KCN, from the Keeyask project, Manitoba Hydro will
- 5 look to estimates both from the DNC, the direct
- 6 negotiated contracts, and the tendered contracts,
- 7 agreed?
- 8 MS. JANE KIDD-HANTSCHER: I'm sorry,
- 9 could you repeat that question?
- 10 MR. BYRON WILLIAMS: Probably I can
- 11 repeat it better than I asked it. Hopefully that will
- 12 help. But when you're -- you're reporting back on
- 13 meeting the target, you will include, among others,
- 14 results from the direct negotiated contracts as well
- 15 as the tendered contracts, correct?
- 16 MS. JANE KIDD-HANTSCHER: Correct.
- 17 Everything that's included in this list will be
- 18 included in the calculation as to whether we have met
- 19 the target.
- 20 MR. BYRON WILLIAMS: Okay. If you can
- 21 go to the next page at the top, please. And that next
- 22 page is page 109 of Manitoba Hydro Exhibit 132,
- 23 Attachment 1. Now, here we have sub (b) and sub (c).
- 24 And I want to just break it down, Ms. Kidd-Hantscher.
- MS. JANE KIDD-HANTSCHER: Hantscher.

- 1 MR. BYRON WILLIAMS: Hantscher, and I
- 2 apologize for that. I can't see your nameplate with
- 3 all the... But I want to break it into little pieces.
- 4 So am I correct in suggesting to you that if it is
- 5 employment under a direct negotiated contract, or DNC,
- 6 if -- if a member is employed in any job for one (1)
- 7 day or more, but thirty (30) days or less in each
- 8 consecutive thirty (30) day period, they will be
- 9 considered to be employed for the month.
- 10 Is that correct?
- 11 MS. JANE KIDD-HANTSCHER: That's
- 12 correct.
- MR. BYRON WILLIAMS: And they --
- 14 again, each month would be counted towards the person
- 15 year, agreed?
- 16 MS. JANE KIDD-HANTSCHER: Agreed.
- 17 MR. BYRON WILLIAMS: And so, for
- 18 example, if -- if someone worked twelve (12) days in
- 19 month A and seventeen (17) days in month B, am I
- 20 correct in suggesting to you that that would be two
- 21 (2) months of employment?
- MS. JANE KIDD-HANTSCHER: Yes.
- 23 MR. BYRON WILLIAMS: Okay. Similarly,
- 24 focussing still on sub (b), am I correct in suggesting
- 25 to you that if a KCN member is under a -- a con -- a

- 1 different contract, for example, a tendered contract,
- 2 where the request for employment was for less than
- 3 thirty (30) days, if they're employed in any one (1) -
- 4 any job for one (1) or more, but thirty (30) days or
- 5 less in each consecutive thirty (30) day period, that
- 6 will be considered to be employed for a month.
- 7 Is that correct?
- 8 MS. JANE KIDD-HANTSCHER: I'm sorry,
- 9 can you repeat that? I -- I think it might not have
- 10 been quite what the agreement says.
- 11 MR. BYRON WILLIAMS: With reference to
- 12 sub (b), if it's, for example, a tendered contract and
- 13 where the -- it was for less than thirty (30) days,
- 14 each member employed in any such job for one (1) day
- 15 or more, but thirty (30) days or less in each
- 16 consecutive thirty (30) day period, will be considered
- 17 to have been employed for a month?
- 18 MS. JANE KIDD-HANTSCHER: Well --
- 19 MR. BYRON WILLIAMS: Or do I have the
- 20 thirty (30) days mixed up?
- 21 MS. JANE KIDD-HANTSCHER: I -- I think
- 22 that there's just -- there's a lot of detail in this--
- MR. BYRON WILLIAMS: Yes.
- 24 MS. JANE KIDD-HANTSCHER: -- part of
- 25 the agreement, and it is quite confusing, so what it

- 1 is, is if -- if you work for one (1) to fifteen (15)
- 2 days, it's counted as a half of a month, and sixteen
- 3 (16) to twenty-nine (29) days is a month. And
- 4 anything greater -- sorry, yeah.
- 5 MR. BYRON WILLIAMS: Now, Ms. Kidd, I
- 6 just -- I apologize, but that's under sub (c).
- 7 MS. JANE KIDD-HANTSCHER: Oh, I'm
- 8 sorry. You were -- you were still under (b).
- 9 MR. BYRON WILLIAMS: So, I -- yes, I
- 10 actually think I'm right here, but let's walk our way
- 11 through it. So we've already discussed direct
- 12 negotiated contracts under Sub (b), correct?
- MS. JANE KIDD-HANTSCHER: Yes.
- 14 MR. BYRON WILLIAMS: Now I want to
- 15 look at tendered contracts or other contracts other
- 16 than a direct negotiated contract under sub (b), sub
- 17 (ii) where the request for employment was for a
- 18 duration of thirty (30) days -- excuse me -- other
- 19 than a job where the request for employment was for a
- 20 duration of thirty (30) days, okay?
- 21 MS. JANE KIDD-HANTSCHER: So you had
- 22 said if it was one (1) to thirty (30) days worked, it
- 23 was one (1) month? That is correct.
- 24 MR. BYRON WILLIAMS: Okay. And,
- 25 again, under that, if I worked fifteen (15) -- fifteen

- 1 (15) days in month A and twelve (12) days in month B,
- 2 that would be two (2) months of employment again?
- 3 MS. JANE KIDD-HANTSCHER: Correct.
- 4 MR. BYRON WILLIAMS: Okay. Now let's
- 5 move to (c), and I apologize for being unclear. So
- 6 this, again, could contemplate a tendered contract
- 7 where the request for employment was for less than
- 8 thirty (3) days, agreed?
- 9 MS. JANE KIDD-HANTSCHER: Agreed.
- 10 MR. BYRON WILLIAMS: And in that case,
- 11 each member employed for one (1) day or more, but
- 12 fifteen (15) days or less, in each consecutive fifteen
- 13 (15) day period will be considered to be employed for
- 14 one-half of one (1) month, correct?
- MS. JANE KIDD-HANTSCHER: Yes, that's
- 16 what I had -- I had jumped ahead and indicated that
- 17 previously.
- MR. BYRON WILLIAMS: That's okay.
- 19 You're probably pretty proud of me though for figuring
- 20 that out. I'm not getting that from you. Okay.
- 21 So any two (2) such half months should
- 22 count -- shall count as one (1) month of employment.
- 23 Is that correct?
- 24 MS. JANE KIDD-HANTSCHER: Correct.
- MR. BYRON WILLIAMS: So in such a

- 1 circumstance under a tendered contract, if I work for
- 2 five (5) days out of the first fifteen (15) days and
- 3 ten (10) days in the next fifteen (15) days, that
- 4 would be a month, agreed?
- 5 MS. JANE KIDD-HANTSCHER: Can you
- 6 repeat that please?
- 7 MR. BYRON WILLIAMS: If I work for
- 8 five (5) days in the first fifteen (15) days, that
- 9 would be half a month?
- 10 MS. JANE KIDD-HANTSCHER: Yes.
- 11 MR. BYRON WILLIAMS: If I work for ten
- 12 (10) days in the second fifteen (15) days, that would
- 13 be half a month, agreed?
- 14 MS. JANE KIDD-HANTSCHER: I believe
- 15 so. I -- this -- as I said, this is a very
- 16 complicated structure, so I'm doing the best I can
- 17 with -- and if I'm not got it quite right, we'll
- 18 report back on that, but...
- 19 MR. BYRON WILLIAMS: So this is
- 20 subject to check.
- 21 MS. JANE KIDD-HANTSCHER: Subject to
- 22 check, yes.
- 23 MR. BYRON WILLIAMS: Under the
- 24 scenario I've presented to you; working five (5) days
- 25 in the first half of the month, ten (10) days in the

4063 second half of the month, that counts as a month, agreed? 3 Two (2) halves equals a -- equals a whole month. 5 MS. JANE KIDD-HANTSCHER: Subject to 6 check, agreed, yes. 7 (BRIEF PAUSE) 9 10 MR. BYRON WILLIAMS: I'll give you a 11 couple of moments if you need it. 12 MS. JANE KIDD-HANTSCHER: No, I'm 13 fine, thank you. 14 MR. BYRON WILLIAMS: Ms. Pachal, I 15 wonder if I could ask you to turn to CAC Exhibit 45-8, Tab 2, page 5, please. 16 17 And, Ms. Pachal, if you're not the 18 right person, you'll -- you'll chastise me and you'll 19 -- you'll refer me to the -- the correct person? 20 MS. SHAWNA PACHAL: It will be my 21 pleasure. 22 MR. BYRON WILLIAMS: I seem to recall 23 that. Just to -- you'll agree with me that what we 24 have before us here is a -- a very small excerpt from 25 the voluminous filings of Manitoba Hydro and the

- 1 Keeyask Environmental Impact Statement, agreed?
- MS. SHAWNA PACHAL: Agreed.
- 3 MR. BYRON WILLIAMS: And, indeed, this
- 4 is an excerpt from Chapter 4 of the -- the response to
- 5 EIS quidelines.
- 6 You'll accept, subject to check?
- 7 MS. SHAWNA PACHAL: Agreed.
- 8 MR. BYRON WILLIAMS: And Ms. Pachal,
- 9 I just -- we're going to come to Table 4.6 at the top
- 10 of that page in just a second, but it's fair to say
- 11 that when we look at the job categories associated
- 12 with Keeyask, we can generally categorize jobs
- 13 associated with its construction into four (4) general
- 14 categories.
- Would that be fair?
- MS. SHAWNA PACHAL: Yes.
- 17 MR. BYRON WILLIAMS: And when we come
- 18 to Conawapa, I'm going to assume that we'll be able to
- 19 do the same thing.
- 20 Would that be that -- your expectation
- 21 as well?
- MS. SHAWNA PACHAL: Without knowing
- 23 exactly how they're planning to build it, I wouldn't -
- 24 if it -- it's going to be similar, I would expect a
- 25 similar breakdown.

- 1 MR. BYRON WILLIAMS: And at the top,
- 2 under section -- or Table 4.6, you see a reference to
- 3 designated trades in the top lefthand corner.
- Do you see that, Ms. Pachal?
- 5 MS. SHAWNA PACHAL: I do.
- 6 MR. BYRON WILLIAMS: And am I correct
- 7 in suggesting to you that that would involve
- 8 occupations having formal apprenticeship programs,
- 9 including carpenters, electricians, and ironworkers?
- 10 MS. SHAWNA PACHAL: Yeah, that's a few
- 11 of them, for sure.
- 12 MR. BYRON WILLIAMS: And when I look
- 13 to non-designated trades, immediately below the
- 14 designated trades, that would include, among others,
- 15 activities such as labourers, truck drivers, and heavy
- 16 equipment operators, agreed?
- MS. SHAWNA PACHAL: Yes.
- 18 MR. BYRON WILLIAMS: And under
- 19 'construct' -- 'construction support', one would find
- 20 items such as catering, security, and administrative
- 21 staff.
- Would that be fair?
- 23 MS. SHAWNA PACHAL: I believe that's
- 24 right.
- MR. BYRON WILLIAMS: And, Ms. Pachal,

- 1 if you do need to check, and I don't -- I think you
- 2 can trust me on this; I think you could go to your
- 3 supporting materials, page 3-86, if you -- if you need
- 4 it.
- 5 But I'll ask you to accept it, subject
- 6 to check.
- 7 MS. SHAWNA PACHAL: Yes, that's fine.
- 8 MR. BYRON WILLIAMS: And again, we see
- 9 the -- the fourth category, being 'Manitoba Hydro and
- 10 contractor supervisory'.
- 11 Do you see that?
- MS. SHAWNA PACHAL: I do.
- 13 MR. BYRON WILLIAMS: Amongst these
- 14 four (4) classifications or job cage -- categories,
- 15 Ms. Pachal, would it be fair to say that we would
- 16 expect the classifications of designated trades and
- 17 supervisory to be the -- tend to be the highest paid?
- MS. SHAWNA PACHAL: That would be my
- 19 expectation.
- 20 MR. BYRON WILLIAMS: Thank you for
- 21 that. Now, this is the Corporation's estimate, at
- 22 least for the Keeyask EIS, in terms of the person
- 23 years of employment associated with the construction
- 24 of the Keeyask generating station and associated
- 25 facilities, agreed?

4067 1 MS. SHAWNA PACHAL: Agreed. 2 MR. BYRON WILLIAMS: And if we move to the middle column, being the persons year column, am I 3 correct in suggesting to you that the -- amongst the individual categories, the highest, in terms of person years, would be the designated trades, at one thousand, three hundred and forty-six (1,346)? 7 MS. SHAWNA PACHAL: 8 9 MR. BYRON WILLIAMS: And second to 10 that would be the Manitoba Hydro and contractor supervisory, involving one thousand and sixty-eight 11 12 (1,068) person years of employment, agreed? 13 MS. SHAWNA PACHAL: Agreed. 14 MR. BYRON WILLIAMS: And if I moved 15 you over to the right-hand side, under the 'percent of 16 total', we see that, in terms of person years of 17 employment, the designated trades account for 32 18 percent of the total estimated employment years, 19 agreed? 20 MS. SHAWNA PACHAL: Agreed. 21 MR. BYRON WILLIAMS: And the Manitoba 22 Hydro and contractor supervisory comes in at 25 23 percent, correct? 24 MS. SHAWNA PACHAL: Agreed.

MR. BYRON WILLIAMS: So if we look at

4068 that, those two (2) classifications, being designated trades and Manitoba Hydro and contractor supervisory, account for 50 perce -- 57 percent of the estimated 3 person employment years presented in Table 4.6, 5 agreed? 6 MS. SHAWNA PACHAL: Agreed. (BRIEF PAUSE) 9 10 MR. BYRON WILLIAMS: Again, Ms. Pachal or Mr. Wojczynksi, this may be premature, but would 11 12 expect a similar split for Wuskwatim -- or, excuse me, 13 for Conawapa, in that we would expect the -- the 14 largest two (2) job categories to be in the designated 15 trades and Hydro and contractor supervisory? 16 Would that be a fair expectation? 17 MS. SHAWNA PACHAL: I think -- I think 18 it would. Again, that would be -- the caveat, of 19 course, is that you haven't advanced far enough to know exactly how they're building it. So -- but I 20 would think that would be fair. 21 22 MR. BYRON WILLIAMS: Okay. And I 23 thank you for that -- that assistance. Ms. Pachal, 24 you had a discussion a little bit this morning about 25 apprenticing, with Mr. Hombach.

- 1 You recall that?
- MS. SHAWNA PACHAL: I do.
- 3 MR. BYRON WILLIAMS: And a little bit
- 4 this afternoon, I think, with My Learned Friend, Ms.
- 5 Saunders?
- 6 MS. SHAWNA PACHAL: I did.
- 7 MR. BYRON WILLIAMS: And we can agree
- 8 that apprenticing is a key mechanism for upgrading
- 9 skee -- skills and for achieving journeyman status.
- 10 Would that be fair?
- MS. SHAWNA PACHAL: Yes.
- 12 MR. BYRON WILLIAMS: And we'll come to
- 13 it later, but will you accept, subject to check, that
- 14 for Wuskwatim the partnership had a target of 20
- 15 percent of -- of the pur -- of the designated trad --
- 16 designated trades being apprenticeships?
- MS. SHAWNA PACHAL: Subject to check,
- 18 I'll accept that.
- 19 MR. BYRON WILLIAMS: And you can refer
- 20 to Exhibit 45-7, page 6, probably if you're checking
- 21 up on that.
- Now, in terms of the target for
- 23 Keeyask, in terms of apprentices, could you -- could
- 24 you share that with me in terms of the construction
- 25 employment?

4070 (BRIEF PAUSE) 1 2 3 MR. BYRON WILLIAMS: And so, Ms. Pachal, just to -- just to make sure that we -- we know what I'm -- I'm talking about, within the designated trades category one would expect to see 7 both journeymen and apprentices, agreed? 8 MS. SHAWNA PACHAL: Agreed. 9 MR. BYRON WILLIAMS: And that there would be a -- a mix in terms of the composition of the 10 11 -- that labour force with a certain percentage being 12 from journeymen and a certain percentage being from 13 apprentices, agreed? 14 MS. SHAWNA PACHAL: Yes, there's -- by 15 law there's a required ratio of journeymen to 16 apprentices. 17 MR. BYRON WILLIAMS: Okay. 18 19 (BRIEF PAUSE) 20 21 MR. BYRON WILLIAMS: And -- and 22 certainly -- and, Ms. Pachal, we'll come to this later 23 again, but certainly one (1) of the objectives in 24 Wuskwatim was to -- as part of the training 25 development exercise was to -- to have a significant

- 1 proportion of apprentices as -- as a way to give
- 2 people a hands-up in terms of entering the trades,
- 3 agreed?
- 4 MS. SHAWNA PACHAL: Agreed.
- 5 MR. BYRON WILLIAMS: And so what I'm
- 6 trying to figure out in -- in terms of Keeyask, first
- 7 of all, is there a specific target in terms of
- 8 apprentices as part of the designated trades job
- 9 category?
- 10 MS. SHAWNA PACHAL: Not that I'm aware
- 11 of.
- 12 MR. BYRON WILLIAMS: Okay. And, Ms.
- 13 Pachal, you'll get back to me if -- if in further
- 14 inquiries you become aware of that?
- MS. SHAWNA PACHAL: I will.
- 16 MR. BYRON WILLIAMS: Yeah. And I'm
- 17 not seeking an undertaking. That's -- Ms. Pachal's
- 18 very good at getting back if she has additional
- 19 information.
- 20 And, Ms. Pachal, would I be correct in
- 21 suggesting that with regard to Conawapa there is at
- 22 this point in time, to your knowledge, no target in
- 23 terms of apprentices as a percentage of -- of the
- 24 designated trades category?
- MS. SHAWNA PACHAL: That's correct.

- 1 MR. BYRON WILLIAMS: Mr. Wojczynski, I
- 2 believe you mentioned yesterday, and you might have
- 3 again this morning, that as a result of the new
- 4 capital estimates there are more employees associated
- 5 with Keeyask.
- 6 Do you recall making that statement,
- 7 sir?
- MR. ED WOJCZYNSKI: Yes.
- 9 MR. BYRON WILLIAMS: And would the
- 10 Corporation have updated estimates as compared to the
- 11 ones we see on Table 4.6, based upon the new capital
- 12 estimate and separated by classification?
- MR. ED WOJCZYNSKI: I would be very
- 14 surprised if we did. I -- I would have to say the
- 15 answer is, no.
- MR. BYRON WILLIAMS: So the
- 17 information that we currently have is -- in front of
- 18 us is represented in Table 4.6 is the most current
- 19 information to your knowledge, sir?
- 20 MR. ED WOJCZYNSKI: It is the most --
- 21 subject to check, it is the most current information
- 22 that has this kind of detail. We may have some number
- 23 that gives some overall person years, but without the
- 24 kind of detail we have here.
- MR. BYRON WILLIAMS: So, Mr.

4073 Wojczynski, I'm going to break this into two (2) requests. The first of all is to make inquiries as to whether you can update the total estimated person 3 years associated with the construction of Keeyask based upon the new capital estimates. 6 7 (BRIEF PAUSE) 9 MR. ED WOJCZYNSKI: We will -- I will 10 check whether we can provide an update on the total number of person years. I would suggest if we can 11 provide one it would be an approximate one, not the kind of detail that would have been done in the first 13 instance for something like this. But I suspect for 14 15 the purposes of what you're looking for, an 16 approximate update would probably be good enough. 17 MR. BYRON WILLIAMS: Mr. Wojczynski, 18 that would be helpful. So you are going to undertake 19 to provide a revised rough estimate of the expected total person years of employment associated with 21 construction of the Keeyask generating station? 22 MR. ED WOJCZYNSKI: Yes, but the front 23 part to that was to, first of all, check whether we 24 can do it. I expect we'll be able to do it, and then, 25 assuming that we can, then we would do that.

4074 1 MR. BYRON WILLIAMS: I skipped a step, and I apologize for that. 3 MR. ED WOJCZYNSKI: Thank you. MR. BYRON WILLIAMS: I was hoping you weren't listening, sir. I'm just teasing you. 6 7 --- UNDERTAKING NO. 75: Manitoba Hydro to provide a revised rough estimate of 8 9 the expected total person 10 years of employment 11 associated with 12 construction of the Keeyask 13 generating station 14 CONTINUED BY MR. BYRON WILLIAMS: 15 16 MR. BYRON WILLIAMS: Mr. Wojczynski, the second part of my request is in -- and this does 17 18 not need to be an undertaking, but if it comes to your 19 attention that the rel -- the relative split between these categories is likely to material change, you'll -- you'll bring it to -- to our attention? 21 22 MR. ED WOJCZYNSKI: As part of the 23 undertaking, while in discussion with the construction 24 people, I'll ask them for their informed judgment as whether there would be reason to think there would be

- 1 a substantial change in the ratios here.
- MR. BYRON WILLIAMS: Thank you for
- 3 that. And, Mr. Wojczynski, is -- is Conawapa far
- 4 enough along to have employment estimates, much less
- 5 revised employment estimates?
- 6 MS. SHAWNA PACHAL: I think we
- 7 provided some estimates of person years on Conawapa
- 8 yesterday. I don't think there's anything additional
- 9 to that at this point.
- 10 MR. BYRON WILLIAMS: Okay. Thank you.
- 11 If we can turn to CAC Exhibit 458, Tab 3, page 12,
- 12 please? Ms. Pachal, you'll recall a conversation with
- 13 the Chairperson, I believe it was yesterday morning,
- 14 in terms of peak employment related to Keeyask.
- Do you recall that con -- conversation?
- MS. SHAWNA PACHAL: I do.
- 17 MR. BYRON WILLIAMS: And in your
- 18 response, you quite properly focussed on the number of
- 19 persons. Do you remember that?
- 20 MS. SHAWNA PACHAL: For the question
- 21 related to peak employment, yes.
- MR. BYRON WILLIAMS: One could also
- 23 look at that issue from a perspective of person years
- 24 of employment, agreed? Well -- or, Ms. Pachal, just
- 25 one could get a sense of the peak person year --

- 1 person years of employment as well, agreed?
- MS. SHAWNA PACHAL: Yeah, that's --
- 3 yes.
- 4 MR. BYRON WILLIAMS: And indeed, that
- 5 is what we have before us, which, you'll agree with
- 6 me, is an excerpt from the Keeyask EIS being Figure
- 7 3.21, agreed?
- MS. SHAWNA PACHAL: Correct.
- 9 MR. BYRON WILLIAMS: And as we absorb
- 10 the lovely colours, you'll agree with me, starting at
- 11 the -- the bottom in the purple, that is to reflect
- 12 the person years of employment in any particular year
- 13 associated with construction support, correct?
- MS. SHAWNA PACHAL: Correct.
- MR. BYRON WILLIAMS: And as we move up
- 16 the chart, we see the gold to -- is designed to
- 17 reflect the person years of employments associated
- 18 with non-designated trades, agreed?
- MS. SHAWNA PACHAL: Agreed.
- 20 MR. BYRON WILLIAMS: And moving
- 21 upwards, we see the green equals designated trades,
- 22 correct?
- MS. SHAWNA PACHAL: Correct.
- 24 MR. BYRON WILLIAMS: And blue is the
- 25 contract supervisory and Manitoba Hydro site staff,

PUB re NFAT 03-26-2014 4077 correct? 2 MS. SHAWNA PACHAL: Yes. 3 MR. BYRON WILLIAMS: And we see the peak in terms of person years being, you'll agree with me -- or you'll agree, the year 2016 at someone over -- somewhat over nine hundred (900) person years, 7 correct? 8 MS. SHAWNA PACHAL: Correct. 9 MR. BYRON WILLIAMS: And a similar -similar high level in 2017, again, over nine hundred 10 11 (900) person years, agreed? 12 MS. SHAWNA PACHAL: 13 MR. BYRON WILLIAMS: And we also see that in green, in the year 2016, of the four (4) 14 15 categories associated with Keeyask construction, it is 16 the green or the designated trades that is in the

- To the green of the designated trades that is in the
- 17 highest demand in both the 2016 and 2017 years,
- 18 correct?
- MS. SHAWNA PACHAL: Correct.
- 20 MR. BYRON WILLIAMS: And if we can
- 21 scroll down to the bottom of this page for just one
- 22 (1) second, the page being page 3 -- page 12 of CAC
- 23 Exhibit 95 -- excuse me -- 45-8.
- 24 Again, Ms. Pachal, you'll see in the
- 25 last bullet assess -- suggestion that the higher

- 1 skilled occupations account for a -- a larger
- 2 percentage of total employment as compared to the
- 3 relatively lower skilled occupations. Would that be
- 4 fair?
- 5 MS. SHAWNA PACHAL: Yes.
- 6 MR. BYRON WILLIAMS: Just -- if we
- 7 could turn to page 13 of the same exhibit, CAC-45-8?
- 8 Ms. Pachal, this is a very small point, but just if
- 9 anyone's wondering where that big 'X' is from, you'll
- 10 -- you'll recall that we had an offline discussion
- 11 with your staff yesterday about this table.
- MS. SHAWNA PACHAL: Yeah, there was a
- 13 typo. They had "Designated Trades" and "Construction
- 14 Support" flipped.
- MR. BYRON WILLIAMS: So, what -- what
- 16 you would recommend is that one pay attention to Mr.
- 17 Williams's very messy 'X' and not pay attention to
- 18 this table, and instead, that actual same information
- 19 is -- is provided at page 5 --
- 20 MS. SHAWNA PACHAL: Correct.
- 21 MR. BYRON WILLIAMS: -- of this same
- 22 exhibit. Thank you.
- 23 If we could turn to page 15 of this
- 24 same exhibit, please, and scroll up just a bit?
- 25 Perfect.

4079 Ms. Pachal, again, you'll agree this is 1 an excerpt from the Keeyask EIS? 3 MS. SHAWNA PACHAL: Yes. MR. BYRON WILLIAMS: And -- and what it ass -- attempts to do, and you might have to scroll up just a little bit further and -- scroll down just a 7 little bit further. Yes, thank you. Keep going, please. 9 Ms. Pachal, you'll agree what this 10 represents is the breakdown of the direct negotiated contract estimates of Manitoba Hydro by person years 11 12 of employment? 13 MS. SHAWNA PACHAL: Yes. 14 MR. BYRON WILLIAMS: And if we can 15 scroll up a little bit just so we can see the whole 16 graph? Thank you. 17 And, so, in ter -- in terms of the 18 direct negotiated contracts, they are a important, 19 indeed, critical mechanism by which Hydro and its partners seek to achieve meaningful employment 21 representation for their -- for the Cree Nation 22 partners as well as for business income and capacity. 23 That would be agreed? 24 MS. SHAWNA PACHAL: Yeah, they're --

they're telling me, "Yes."

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- 1 MR. BYRON WILLIAMS: And what this pie
- 2 chart, if I can describe it as that, reflects, is the
- 3 mix of expected person years of employment divided
- 4 between three (3) job categories, being construction
- 5 support, non-designated trades, and designated trades.
- 6 Would that be fair?
- 7 MS. SHAWNA PACHAL: Yes.
- 8 MR. BYRON WILLIAMS: And so, here we
- 9 see that construction support in the purple accounts
- 10 for 59 percent of the total, or an estimated six
- 11 hundred and seventy-five (675) person years, agreed?
- MS. SHAWNA PACHAL: Agreed.
- 13 MR. BYRON WILLIAMS: And it -- it is
- 14 by far the -- the largest part of the DNCs in terms of
- 15 person years of employment?
- 16 MS. SHAWNA PACHAL: That's what the
- 17 graph is saying, yes.
- 18 MR. BYRON WILLIAMS: And then we see
- 19 under 'designated trades', they come in at 23 percent,
- 20 or an estimated two hundred and sixty (260) person
- 21 years, agreed?
- MS. SHAWN PACHAL: Agreed.
- 23 MR. BYRON WILLIAMS: And then the non-
- 24 designated trades at 18 percent are two hundred and
- 25 seven (207) person years.

PUB re NFAT 03-26-2014 4081 Would that be fair? 1 2 MS. SHAWNA PACHAL: Agreed. 3 MR. BYRON WILLIAMS: Now, you did mention over the -- the last couple of days that there are revised estimates of the values of the -- of the directly-negotiated contracts up to around 390 million. 7 8 Is that correct, Ms. Pachal? 9 MS. SHAWNA PACHAL: That's correct. 10 MR. BYRON WILLIAMS: Is there a 11 revised breakdown of the expected person years of 12 employment associated with the direct negotiated 13 contracts, or is this the most current information? 14 MS. SHAWNA PACHAL: I do -- I don't 15 know. I would have to check for you if this was the most current information --16 17 MR. BYRON WILLIAMS: Okay. 18 MS. SHAWNA PACHAL: -- or not. 19 MR. BYRON WILLIAMS: So I'm going to ask you by way of undertaking to just report back on whether this is the most current information or not? 21 22 MS. SHAWNA PACHAL: Okay. I will

undertake to determine if Figure 323 from the MMF's

Exhibit 45-8, 45-8, the CAC Exhibit 45-8 is up to

23

24

25

date.

4082 1 MR. BYRON WILLIAMS: Okay. Thank you for that. Now just as -- as we look at the big picture --3 MS. SHAWNA PACHAL: Well, I actually can give you an answer because they just emailed me, the constriction folks upstairs, telling me that it is 7 the most current info they have. 8 MR. BYRON WILLIAMS: Well, thank them 9 very much. 10 11 (BRIEF PAUSE) 12 13 MS. SHAWNA PACHAL: So can I get my 14 name off that undertaking? 15 MR. BYRON WILLIAMS: Yes. 16 MS. SHAWNA PACHAL: I want to go to bed a little bit earlier tonight. 17 18 MR. BYRON WILLIAMS: We consider the 19 undertaking fulfilled, and that is a record, I 20 quarantee you. 21 MS. JANE KIDD-HANTSCHER: It would've 22 been even faster but I got heck earlier for whispering 23 in her ear, so now I'm just trying to motion to her, 24 so. 25 MR. BYRON WILLIAMS: If -- if we would

- 1 compare the -- the categ -- the breakdown of person
- 2 years of employment of the direct negotiated contracts
- 3 as compared, Ms. Pachal, to the overall picture of the
- 4 person years of employment would I be correct in
- 5 suggesting to you that the DNCs as compared to the
- 6 overall person years of employment are
- 7 disproportionately aligned with construction support?
- 8 There's more, relatively there's way
- 9 more construction support within the DNCs than one
- 10 would see in the same percentage for the overall --
- 11 for the overall project.
- 12 MS. SHAWNA PACHAL: Yes, I would say
- 13 that's right.
- 14 MR. BYRON WILLIAMS: And the corollary
- 15 of that is that for the designated trades, they occupy
- 16 a relatively smaller percentage of the DNC contracts
- 17 as compared to the overall construction picture,
- 18 agreed?
- MS. SHAWNA PACHAL: Agreed.
- 20 MR. BYRON WILLIAMS: If we could just
- 21 move on for a couple pages, to page 17 of this Exhibit
- 22 CAC-45-8.
- Ms. Pachal, here we -- you'll -- you'll
- 24 agree that here we have the same information but
- 25 presented for the tendered contracts, agreed?

- 1 MS. SHAWNA PACHAL: Agreed.
- 2 MR. BYRON WILLIAMS: And to cut to the
- 3 chase, here we see for the tendered contracts roughly
- 4 54 percent associated with the designated trades,
- 5 correct?
- 6 MS. SHAWNA PACHAL: Correct.
- 7 MR. BYRON WILLIAMS: And 9 percent
- 8 associated with construction support?
- 9 MS. SHAWNA PACHAL: Correct.
- 10 MR. BYRON WILLIAMS: And I think I
- 11 know what your folks at -- on -- is this, Ms. Pachal,
- 12 to your knowledge, the most recent information that
- 13 you have in terms of the split?
- 14 MS. SHAWNA PACHAL: Yeah, subject to
- 15 check I'm assuming it is, yes.
- 16 MR. BYRON WILLIAMS: If we can turn to
- 17 -- staying within CAC Exhibit 45-8, and move to page
- 18 19 in the bottom right-hand corner, and I believe this
- 19 is for Ms. -- Ms. Kidd-Hantscher, and hopefully I got
- 20 your name correct this time. I apologize for
- 21 previously.
- 22 What we see here is -- is Table 3-22
- 23 from the Keeyask EIS supporting materials, you'll
- 24 agree with me?
- 25 MS. JANE KIDD-HANTSCHER: Yes.

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- 1 MR. BYRON WILLIAMS: And recognizing
- 2 the caveat that you provided both yesterday and today,
- 3 Ms. Kidd, in terms of the employability person years
- 4 comparability, what this -- what this does is provides
- 5 an estimate of the employment participation by KCN
- 6 members in the Keeyask generation project, and it does
- 7 not involve the infrastructure project, agreed?
- 8 MS. JANE KIDD-HANTSCHER: Agreed, and
- 9 three two two (322) is the high employment estimate,
- 10 yes.
- MR. BYRON WILLIAMS: And by the high
- 12 employment estimate, the consultants retained in the
- 13 EIS did both the low estimate which appears on the
- 14 next page and a high estimate, and this is the
- 15 application of the high estimate to the -- as compared
- 16 to the total demand associated with Keeyask.
- 17 MS. JANE KIDD-HANTSCHER: Correct.
- 18 MR. BYRON WILLIAMS: Okay. And again,
- 19 this is measured in person years, correct?
- 20 MS. JANE KIDD-HANTSCHER: Yes.
- 21 MR. BYRON WILLIAMS: And we wouldn't
- 22 have the JKDA issue, Ms. Kidd, this is person years to
- 23 person years based upon the estimate of -- of three
- 24 thousand (3,000) hours equalling a one (1) person
- 25 year, agreed?

- 1 MS. JANE KIDD-HANTSCHER: Yes, this is
- 2 more -- much more straightforward.
- 3 MR. BYRON WILLIAMS: Okay. Thank you.
- 4 And if we go to the column, "Construction Support," we
- 5 see the estimate being, total KCN participation being
- 6 three hundred and twenty-five (325) as compared to
- 7 over -- total overall project demand of eight hundred
- 8 and fifty-two (852).
- 9 Am I correct there?
- 10 MS. JANE KIDD-HANTSCHER: Yes.
- 11 MR. BYRON WILLIAMS: Moving over to
- 12 non-designated trades we see the high employment
- 13 estimate suggest one hundred and seventy (170) person
- 14 years of employment as compared to the total demand of
- 15 nine hundred and fifty-two (952) person years of
- 16 employment, agreed?
- MS. JANE KIDD-HANTSCHER: Agreed.
- 18 MR. BYRON WILLIAMS: And moving over
- 19 to the designated trades, we see the estimated person
- 20 years of employment under the high employment estimate
- 21 for the KCNs being ninety-five (95) as -- as compared
- 22 to the total expected demand of one three four six
- (1,346), agreed?
- MS. JANE KIDD-HANTSCHER: Agreed.
- MR. BOB PETERS: And then we see also

- 1 a comparison in terms of MH and super -- supervisory
- 2 between the KCN and total demand.
- 3 Would that be fair?
- 4 MS. JANE KIDD-HANTSCHER: Yes.
- 5 MR. BYRON WILLIAMS: And just out of
- 6 curiosity, and -- and if you can't answer it, perhaps
- 7 someone from the -- the KCN, there's apparently a
- 8 great chef associated with one (1) of the -- the Cree
- 9 Nations who's in -- who's occupying one (1) of these
- 10 management positions.
- 11 Am I -- am I --
- 12 MS. JANE KIDD-HANTSCHER: That's
- 13 actually -- if my understanding is correct, that's a
- 14 chef who is from Nelson House --
- 15 MR. BYRON WILLIAMS: Nelson House.
- 16 MS. JANE KIDD-HANTSCHER: -- who
- 17 received his Red Seal apprenticeship while working at
- 18 the Wuskwatim project, who's moved on to work on the
- 19 Keeyask project, if it's the same person that I'm
- 20 thinking of, so.
- 21 MR. BYRON WILLIAMS: And he's a real
- 22 success story, and -- or she or he is.
- 23 MS. JANE KIDD-HANTSCHER: So -- yes.
- 24 MR. TED BLAND: I just wanted to add
- 25 to that, York Factory also has a Red Seal chef there,

- 1 as well, so we do have two (2) Red Seal chefs.
- 2 MR. BYRON WILLIAMS: I -- I remember
- 3 Mr. Bland telling me about a Red Seal chef previously,
- 4 so. There's a couple great chefs from the Cree
- 5 Nations in this total. And finally, under the total
- 6 we see total KCN participation of six hundred (600)
- 7 person years of employment as compared to the total
- 8 estimated demand of four thousand two hundred and
- 9 eighteen (4,218).
- 10 Would that be fair?
- MS. JANE KIDD-HANTSCHER: Yes.
- MR. BYRON WILLIAMS: And
- 13 mathematically, that works out to be about 14 percent
- 14 of -- of the expectation of total demand?
- 15 MS. JANE KIDD-HANTSCHER: Yes.
- 16 MR. BYRON WILLIAMS: And would it be
- 17 fair to suggest that in terms of the total KCN
- 18 participation, it tends to be significantly higher in
- 19 the non-designated trades and construction support as
- 20 compared to the designated trades and the MH and
- 21 supervisory.
- Would that be fair?
- 23 MS. JANE KIDD-HANTSCHER: Yes, the
- 24 numbers are indicative of that.
- MR. BYRON WILLIAMS: And I think I

- 1 know the answer to this, but have these figures been
- 2 updated to -- to your knowledge, Ms. Kidd-Hantscher?
- 3 MS. SHAWNA PACHAL: The information
- 4 that we have here from the EIS are the most up-to-date
- 5 numbers that we have in this regard.
- 6 MR. BYRON WILLIAMS: I thank you for
- 7 that. Mr. Chair, I'm moving to a -- a new subject
- 8 matter and I can keep going, although I do have a
- 9 commitment at the University of Manitoba. So if I
- 10 could beg the indulgence of the Board and -- and
- 11 finish a couple minutes early I'd be very
- 12 appreciative.
- THE CHAIRPERSON: Absolutely, Mr.
- 14 Williams. I think unless there's some other business
- 15 to conduct I will be adjourning the session for today.
- 16 Our intention is to -- oh, Mr. Bedford, please.
- 17 MR. DOUGLAS BEDFORD: This will take
- 18 but a moment. When Mr. Spence arrived yesterday to
- 19 address you he came with a prepared written statement
- 20 to read. It probably escaped your observation, but
- 21 Mr. Spence has reached a stage in his life where he
- 22 struggles with his eyesight. So he spoke
- 23 extemporaneously managing to cover some of the topics
- 24 in his prepared written statement, but he found he was
- 25 unable to read it. It runs for about eleven (11)

25

Project.

PUB re NFAT 03-26-2014 4090 pages. And with your indulgence I would like to file the written statement as an exhibit. I think we are at MH-132, Mr. Simonsen, or --3 4 MR. KURT SIMONSEN: One thirty-three. 5 MR. DOUGLAS BEDFORD: -- 133. I was close. So if we may do that. I'll have my colleague distribute the copies of the statement. 8 --- EXHIBIT NO. MH-133: Presentation by Victor 9 10 Spence 11 12 THE CHAIRPERSON: Obviously, the panel 13 will accept that as an exhibit, that statement as an 14 exhibit. 15 MR. DOUGLAS BEDFORD: And I'm advised that Ms. Kidd-Hantscher has one (1) matter to -- to 17 enter. 18 MS. JANE KIDD-HANTSCHER: Oh, no, I don't want to come back to that this afternoon. We'll do it -- we'll do an easier one. I think that, if we 21 understood your statement perhaps that you made, or 22 question, it was with respect to some information that

was in the Deloitte evaluation about, I think you may

have said, a target on apprentices for the Wuskwatim

- 1 So we've just checked that and on page
- 2 46 of that document, as you did reference 20 percent,
- 3 and 20 percent is the right number, but that's not a
- 4 target, it was a northern Aboriginal apprentice hire
- 5 actual results for the project. And in the paragraph
- 6 above, it -- it indicates that targets were not
- 7 identified for Aboriginal apprentice numbers, but
- 8 based on data provided by Manitoba Hydro.
- 9 So -- so 20 percent is the actual
- 10 number of northern Aboriginal apprentice hires on the
- 11 project.

- 13 CONTINUED BY MR. BYRON WILLIAMS:
- 14 MR. BYRON WILLIAMS: And, Ms. Kidd-
- 15 Hantscher, I'm -- I'm going to -- when we resume our
- 16 discussion tomorrow just have -- ask your folks to
- 17 look at page 6 of CAC Exhibit 45-7 and see if we're --
- 18 we're talking the -- the same information, and we'll
- 19 come back to it. And could you just remind me of the
- 20 page that you cited, please?
- 21 MS. JANE KIDD-HANTSCHER: Okay. So I
- 22 cited page 46. And I see that you're indicating on
- 23 page 6 -- this was below the EIS prediction of 20
- 24 percent of all hires would be apprentices. That is
- 25 what you're referencing, Mr. Williams?

- 1 MR. BYRON WILLIAMS: Yeah, and --
- MS. JANE KIDD-HANTSCHER: I think that
- 3 maybe it's the -- it's a prediction versus a target.
- 4 Maybe that's just the fine distinction there, so.
- 5 MR. BYRON WILLIAMS: Okay. That's
- 6  $\,$  fair enough. But if I can just go to the line in --  $\,$
- 7 and it's -- while we're here, it's CAC Exhibit 45-7
- 8 and page 6 in the bottom right-hand corner. Yeah,
- 9 right there.
- 10 Ms. Kidd, you'll see the suggestion on
- 11 the first line of that last paragraph that the actual
- 12 hires at just under 15 percent of the total were
- 13 apprentices, which the suggestion is -- and I thank
- 14 you for correcting my words, was below the EIS
- 15 prediction of 20 percent of all hires.
- 16 And so is that consistent with your
- 17 understanding or are we at odds?
- 18 MS. JANE KIDD-HANTSCHER: I think --
- 19 and perhaps the -- the difference was I think we heard
- 20 you say the word 'target' as opposed to 'prediction'.
- 21 And so this isn't a target. It is a EIS prediction,
- 22 so --
- 23 MR. BYRON WILLIAMS: And I thank you
- 24 for that. And just for Ms. Pachal to ponder for
- 25 tomorrow, is there a prediction of the percentage of

4093 hires in the designated trades which will be apprentices associated with Keeyask? And I apologize for using the word 3 'target' instead of 'prediction'. 5 THE CHAIRPERSON: Thank you. I think with that we have completed today's business. So have a good evening, everyone. We'll see each other again 7 tomorrow morning at nine o'clock sharp. Thank you. 9 10 --- Upon adjourning at 4:29 p.m. 11 12 13 14 Certified Correct, 15 16 17 18 19 20 Cheryl Lavigne, Ms. 21 22 23 24 25

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