

MANITOBA PUBLIC UTILITIES BOARD

Re: MANITOBA HYDRO

NEEDS FOR AND ALTERNATIVES TO
REVIEW OF MANITOBA HYDRO'S

PREFERRED DEVELOPMENT PLAN

Regis Gosselin - Chairperson

Marilyn Kapitany - Board Member

Larry Soldier - Board Member

Richard Bel - Board Member

Hugh Grant - Board Member

HELD AT:

Public Utilities Board

400, 330 Portage Avenue

Winnipeg, Manitoba

April 15, 2014

Pages 6940 to 7107



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PUB re NFAT 04-15-2014 6944 --- Upon commencing at 12:49 p.m. 2 3 THE CHAIRPERSON: Good afternoon. Ι believe that everybody's in position, so that we can commence this afternoon's proceedings. Before we turn the microphone over to Me. Monnin I'd invite Mr. 7 Hombach to say a few words. MR. SVEN HOMBACH: Yes. Good 8 9 afternoon, Mr. Chairman and members of the panel, and thank you. This afternoon and tomorrow morning are 10 reserved for the evidence of TyPlan, an independent 11 12 expert consultant appointed by the PUB to review 13 socioeconomic matters in respect of the NFAT. 14 Before we get started I would like to 15 advise the parties in the room that in the CSI portion 16 of the hearing this morning the panel ruled that lines 5 through 7 of the transcript of April 14, 2014, which 17 18 was yesterday, are going to be redacted, as the panel 19 has determined that... 20 21 (BRIEF PAUSE) 22 23 MR. SVEN HOMBACH: Sorry, I misspoke,

24 that lines 11 through 17 of the transcript of April

25 14th, 2014, are going to be redacted, as the panel has

- 1 reached a determination that those lines contained CSI.
- 2 I can advise the parties that a redacted transcript
- 3 with those six (6) lines blacked out is going to be
- 4 released publically later today.
- 5 With that I would like to welcome Mr.
- 6 Russ. Tyson to the hearing. Might I suggest we turn it
- 7 over to Me. Monnin or Mr. Weinstein to qualify the
- 8 witness.
- 9 THE CHAIRPERSON: Before we start that,
- 10 I'm a bit concerned that the Intervenors have all been
- 11 notified -- not all been notified that we were starting
- 12 at quarter to 1:00. I know Ms. Saunders is not here,
- 13 and I -- she had expressed some interest.
- 14 Could you call her, please, Ms. Menzies?
- 15 MS. MEGHAN MENZIES: I can note that
- 16 Ms. Saunders is aware of the starting time. And she
- 17 had other matters that were ongoing this morning, but
- 18 she will be here this afternoon.
- 19 THE CHAIRPERSON: Thank you for that.
- 20 So with that, Me. Monnin, s'il vous plait.
- MR. MICHAEL WEINSTEIN: Good afternoon,
- 22 Mr. Chair. That's all right.
- THE CHAIRPERSON: Mr. Weinstein, I
- 24 apologize.
- MR. MICHAEL WEINSTEIN: Before we turn

6946 to swearing the witness I would just like to take care of a bit of housekeeping with respect to exhibits. And I've spoken with Mr. Secretary. We'd like to enter three (3) exhibits. The first one would be TyPlan's scope of work. 6 And since the report is already TyPlan Exhibit 1, the scope of work will be entered at TyPlan Exhibit 2. 9 10 --- EXHIBIT NO. TYP-2: TyPlan's scope of work 11 12 MR. MICHAEL WEINSTEIN: The next 13 exhibit would be the slide deck for TyPlan's 14 presentation, which we would ask be entered at TyPlan 15 Exhibit 3. 16 17 --- EXHIBIT NO. TYP-3: Slide deck for TyPlan's 18 presentation 19 20 MR. MICHAEL WEINSTEIN: And then 21 lastly, we've provided via email, but we're now going to be submitting as an exhibit also, Mr. Russ Tyson's 22 23 expanded resume as TyPlan Exhibit 4. And I've provided 24 copies of that for members of the panel, as well. 25

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6947
   --- EXHIBIT NO. TYP-4: Russ Tyson's expanded
2
                                resume
3
                  MR. MICHAEL WEINSTEIN: And with that,
   Mr. Chair, I would now ask that we swear the witness.
6
   TEC TYPLAN PANEL:
7
8
                 RUSSELL TYSON, Sworn (Qual.)
9
   QUALIFICATION OF WITNESS:
10
11
                  MR. MICHAEL WEINSTEIN: Mr. Tyson,
   you're here today on behalf of TyPlan Planning and
13
   Management, which has been retained by the Manitoba
   Public Utilities Board in order to assist the PUB to
14
15
   conduct a needs -- conduct a Needs For and Alternatives
16
   To review of Manitoba Hydro's proposed Preferred
   Development Plan, correct?
17
18
                  MR. RUSSELL TYSON: Yes.
19
                  MR. MICHAEL WEINSTEIN: TyPlan prepared
   a report in accordance with the terms of reference and
21
   TyPlan's scope of work, dated September 20th, 2013,
   which report was then filed to critically review
22
23
   certain aspects of Manitoba Hydro's Preferred
24
   Development Plan and filings.
25
                   Is that correct?
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- 1 MR. RUSSELL TYSON: Yes, it is.
- 2 MR. MICHAEL WEINSTEIN: And was that
- 3 report prepared by you or under your supervision and
- 4 control?
- 5 MR. RUSSELL TYSON: Yes, it was.
- 6 MR. MICHAEL WEINSTEIN: Your curriculum
- 7 vitae has been filed with the panel as part of Exhibit
- 8 Hill Co. number 8 at Tab 6a, and a longer form resume
- 9 has been provided and was just filed as Exhibit TYP-4.
- 10 Could you please describe, first
- 11 generally, your education and experience as they relate
- 12 to the work you performed pursuant to TyPlan's scope of
- 13 work?
- 14 MR. RUSSELL TYSON: Yes. From an
- 15 educational perspective I have a master's in urban
- 16 regional planning from Queens University. I have a
- 17 master's certificate in project management from the
- 18 University of Victoria. I have an honours degree in
- 19 urban geography from the University of Western Ontario.
- 20 I have an executive management development business
- 21 program certificate from Simon Frazier University. And
- 22 I have a certificate in conflict analysis in management
- 23 from Royal Rhodes Universities.
- 24 I am a member of the Canadian Institute
- 25 of Planners; a member of the Clean Energy BC, which is

- 1 a group that heads up all the independent hower --
- 2 hydro power projects in British Columbia. I'm a member
- 3 of the Project Management Institute, as well as a -- a
- 4 member of the Planning Institute of British Columbia
- 5 and the Ontario Provincial Planning Institute.
- In regard to the socioeconomic
- 7 components of this study, I would like to preface it by
- 8 stating that there are generally three (3) things that
- 9 one does in undertaking socioeconomic impact analysis.
- 10 I will provide details on the projects that I've worked
- 11 on, but all the aspects of the three (3) things that I
- 12 will speak to have been done in accordance for all the
- 13 projects I identified.
- 14 Firstly, the general socioeconomic
- 15 background report, which provides a conditional report
- 16 of the region or the local area socioeconomic
- 17 conditions. It is based on Statistics Canada
- 18 information and provides data on housing, employment,
- 19 occupation, a variety of different data that is
- 20 collected by Stats Canada.
- 21 In addition to that, the standard
- 22 socioeconomic background report looks at access issues
- 23 and infrastructure, include -- including emergency
- 24 planning, preparedness plans, as well as the
- 25 availability of health concerns and services in the

- 1 local community. That is a standard component of what
- 2 falls into an overall environmental impact statement,
- 3 which has been prepared for the PDP.
- 4 The second component of the analysis
- 5 includes what we call economic impact analysis, which
- 6 is basically a run of the provincial input/output
- 7 models to provide an indication of the contributions to
- 8 the GDP, employment in person years, as well as
- 9 provincial and federal taxes.
- In our projects in BC we actually
- 11 utilize that model and disaggregate it a little bit to
- 12 make it more practical. We do one (1) or -- one (1) or
- 13 two (2) -- a couple of things. The first thing we do
- 14 is we get the model to give us a printout of the
- 15 sectors of the economy that such projects are going to
- 16 benefit, and we can break it down by number of person
- 17 years by sector of the economy. This helps out when we
- 18 deal with contractors in the future.
- 19 The other aspect of the model that we
- 20 can do in certain circumstances is regionalize it. The
- 21 model itself provides Canadian-wide as well as
- 22 provincial benefits. One of the biggest criticisms at
- 23 a more localized level is what are those benefits to
- 24 the region. So in certain instances we can
- 25 disaggregate the -- the model to come up with numbers

- 1 at a regional perspective.
- 2 The third aspect -- and that, too, by
- 3 the way is also a component of the Environmental
- 4 Assessment Act. One (1) of the unique things that we
- 5 do now with all of our clients is create things that we
- 6 call local job opportunity analysis, which basically
- 7 takes the strengths and weaknesses that -- that have
- 8 been identified in the socioeconomic background report,
- 9 the economic modelling, and then we match that with the
- 10 local economy.
- 11 So we find local providers, service
- 12 providers as well as companies, in the marketplace in
- 13 the local area that could potentially work on such proj
- 14 -- pro -- projects. Then we match them with the
- 15 contractor when they come on board to ensure that we're
- 16 optimizing socioeconomic benefits. Thank you very
- 17 much.
- 18 MR. MICHAEL WEINSTEIN: Thank you, Mr.
- 19 Tyson. I'm now going to ask you to just take a few
- 20 minutes and to go through specifically the areas under
- 21 your scope of work that were addressed in your report.
- 22 The first item in your scope of work, number 1, states:
- 23 "Perform a critical analysis of the
- 24 socioeconomic impacts and benefits of
- 25 Manitoba Hydro's Preferred

	6952
1	Development Plan and alternative
2	plans. This should include
3	examination of potential effects to
4	the people of Manitoba, especially
5	Northern and Aboriginal communities,
6	including such things as employment,
7	training, and business opportunities;
8	infrastructure and services;
9	personal, family, and community life;
10	and resource use, including"
11	And I'd now ask you to speak to each of
12	these subpoints within item number 1, beginning with
13	1(a):
14	"Economic impact assessment modelling
15	to determine sector economic impacts
16	to provincial GDP, long-term and
17	short-term induced employment
18	opportunities."
19	MR. RUSSELL TYSON: Thank you. For the
20	panel's clarification, in British Columbia we also have
21	our provincial utility, but we also have a series of
22	private-sector interests developing hydro projects
23	throughout the province.
24	As part of that, one of the key issues
25	that comes up in British Columbia is that those

- 1 projects are basically linked directly towards
- 2 establishing benefit agreements with First Nations. So
- 3 all of the aspects of socioeconomic are rolled up --
- 4 that I've discussed about earlier are rolled up both
- 5 with the private sector and with the First Nations when
- 6 we do our work.
- 7 Specific to economic impact, the Upper
- 8 Lillooet Hydro Project, which is a cluster of three (3)
- 9 hydro power projects north of Pemberton, BC, which is
- 10 just north of Whistler -- Pemberton has a population of
- 11 about, I think, twelve hundred (1,200) people -- is one
- 12 (1) project where we undertook all aspects that I
- 13 identified at the top.
- 14 In addition to that, there are a cluster
- 15 of projects at Harrison Lake, which is about an hour
- 16 and a half outside of Vancouver, British Columbia,
- 17 where we did the exact same modelling.
- 18 Another project near Whistler, which is
- 19 the Skookum Power Project, was another example of where
- 20 we took the baseline, we did the economic impact, and
- 21 followed through with local job opportunities.
- We also had a project of seven (7)
- 23 independent projects called the Pitt River Hydro Power
- 24 Project. There were seven (7) individual projects and
- 25 we ran the model to ascertain the benefits associated

- 1 with that.
- In addition to working exclusively in
- 3 the IPP sector, we also do broader economic impact
- 4 analysis. And a couple of examples include the Fraser
- 5 River crossing project, which is a transportation
- 6 bridge project to link communities, as well as the UBC,
- 7 University of British Columbia, rapid transit line
- 8 which had seven (7) or eight (8) different alternatives
- 9 which we evaluated from an economic perspective.
- 10 And we've recently completed a study on
- 11 the economic impact of contaminated sites on the
- 12 provincial economy. And that was tabled last year.
- MR. MICHAEL WEINSTEIN: Thank you.
- 14 Please now describe your expertise and qualifications
- 15 as they relate to scope of work item 1(b):
- 16 "Determining gross provincial
- 17 financial benefits by examining
- 18 benefits and costs over the life of
- 19 the project."
- 20 MR. RUSSELL TYSON: Another service
- 21 line that TyPlan Planning and Management provides is
- 22 that of needs assessments within communities. We have
- 23 contuct -- conducted for the Parks Board in Vancouver
- 24 needs assessments for a number of community centres,
- 25 namely, Dunbar and the Abbafower (phonetic) Centre.

- 1 As part of those evaluations, we look at
- 2 building condition reports, environmental reports, and
- 3 health reports in the determination of the longevity of
- 4 the facility. We develop schedules and plans based on
- 5 that to ascertain how we can retrofit the facility to
- 6 increase the life cycle.
- 7 An interesting note: A very
- 8 comprehensive community needs assessment was undertaken
- 9 for the Northern Rockies Regional District and Fort
- 10 Nelson, which is Northeastern BC, in which all the
- 11 facilities and infrastructure within that region was
- 12 assessed from an engineering, health, and stability
- 13 perspective.
- 14 MR. MICHAEL WEINSTEIN: Thank you.
- 15 Scope of work item 1(c):
- 16 "Determining Canadian benefits."
- 17 MR. RUSSELL TYSON: I have mentioned a
- 18 number of projects as part of 'A'. Canadian benefits
- 19 are one of the results from running the input-output
- 20 model. So all of the projects that had been identified
- 21 earlier also constituted information regarding Canadian
- 22 benefits.
- 23 MR. MICHAEL WEINSTEIN: Scope of work
- 24 item 1(d): Northern and Aboriginal community-based
- 25 impacts in terms of employment opportunities, incomes,

- 1 community tax base, skills development, and community
- 2 business opportunities.
- 3 MR. RUSSELL TYSON: Again, as noted
- 4 earlier on in the presentation, we've undertaken
- 5 numerous studies, socioeconomic studies, for hydro-
- 6 related projects. As mentioned also, part of the
- 7 program in British Columbia is that First Nations have
- 8 to be involved and eventually partner with these
- 9 proponents to ensure that they can get a successful
- 10 call and develop their projects.
- 11 We work with First Nations in all of
- 12 these areas on a continuous basis to look at
- 13 socioeconomic issues and address them, ensuring that
- 14 job opportunities are available to them when the
- 15 project is developed.
- 16 MR. MICHAEL WEINSTEIN: Thank you. And
- 17 with respect to scope of work item 1(e):
- 18 "Community access improvements and
- 19 related health, education, and
- 20 cultural benefits."
- 21 MR. RUSSELL TYSON: One (1) of the key
- 22 aspects of doing a socioeconomic baseline is to include
- 23 conditions within the local community regarding health,
- 24 access, and education. That is another line summary
- 25 that's identified in all socioeconomic baseline

6957 studies. 2 MR. MICHAEL WEINSTEIN: Scope of work 3 item 2: "Consider the economic displacement impacts and effects on consumer 4 5 spending to the extent consumers will 6 face increased electricity rates as a result of the Preferred Development Plan." 9 MR. RUSSELL TYSON: As part of standard socioeconomic analysis, the use of literature reviews 10 11 and benchmarking is a critical component to ascertain issues. As part of this project, we reviewed available 12 13 literature and used those opinions to formulate our own 14 opinions in relation to the PUB issue. 15 MR. MICHAEL WEINSTEIN: Scope of work item 3: 16 "Identify and evaluate to 17 socioeconomic impact of five (5) key 18 alternative scenarios and provide a 19 comparison table between the 20 Preferred Development Plan and such 21 scenarios." 22 MR. RUSSELL TYSON: This component of 23 the scope of work, it reflect the multi -- multiple 24 account benefit cost analysis. And we have recently 25 completed, back in British Columbia, the Moray Bridge

- 1 Replacement Project, which was a multiple account cost
- 2 benefit analysis that had the similar accounts as to
- 3 the ones we evaluated within the NFAT.
- In addition to that, TyPlan does a lot
- 5 of transportation planning and does a lot of option
- 6 analysis, where we critically evaluate different
- 7 alternatives to come up to a preferred.
- MR. MICHAEL WEINSTEIN: And finally,
- 9 Mr. Tyson, could you please describe your
- 10 qualifications and expertise with respect to scope of
- 11 work item 4:
- 12 "Provide a high-level analysis on how
- 13 other Canadian jurisdictions maximize
- 14 provincial economic benefits from the
- development of large-scale resource
- 16 projects and assess if the Preferred
- 17 Plan provides the highest level of
- 18 socioeconomic benefit to Manitoban."
- 19 MR. RUSSELL TYSON: Prior to forming
- 20 TyPlan, I was retained as director of real estate
- 21 services for Arthur Anderson, Inc. As part of the
- 22 overall process at Arthur Anderson, benchmarking was a
- 23 critical component of how we did business. We did, and
- 24 undertook benchmarks at a national level for CN and CP
- 25 Rail, as well in -- as in BC, the British Columbia

- 1 Building Corporation, moving forward.
- 2 As part of the development of benefit
- 3 agreements with First Nations that we have been
- 4 involved with in BC, we undertook a benchmark analysis
- 5 to find out what components should go into a benefit
- 6 agreement and what the key success factors are to
- 7 delivering such programs. Those key success factors
- 8 are the ones we utilized in this report.
- 9 MR. MICHAEL WEINSTEIN: Thank you, Mr.
- 10 Tyson. With that, Mr. Chair, I would ask that Mr.
- 11 Tyson be accepted by the Board as an expert for the
- 12 purpose of giving evidence on the work performed by
- 13 TyPlan according to its scope of work under the NFAT.
- 14 THE CHAIRPERSON: Thank you, Mr.
- 15 Weinstein. I'll turn the microphone over to Mr.
- 16 Williams, please.
- MR. BYRON WILLIAMS: Thank you and good
- 18 afternoon, members of -- of the panel. It's -- it's
- 19 been a while. I -- I hope that I can fill Ms.
- 20 Menzies's shoes adequately. And, Mr. -- Mr. Tyson,
- 21 welcome to -- if I slip up and call you Mr. TyPlan,
- 22 you'll accept that is --
- 23 MR. RUSSELL TYSON: I will accept that.
- 24 MR. BYRON WILLIAMS: -- a good branding
- 25 and -- and that you've -- you've made the TyPlan brand.

6960 Now, you mentioned in your initial statement of qualifications that you're a member of Clean Energy BC. 3 Is that correct? MR. RUSSELL TYSON: Yes. 5 MR. BYRON WILLIAMS: And that's mem -members who are involved with the independent power 7 producers within the province of British Columbia? 8 MR. RUSSELL TYSON: That is correct. 9 MR. BYRON WILLIAMS: And indeed, it is 10 a major part of -- of your work that you work with 11 independent power producers in British Columbia. 12 Would that be fair? 13 MR. RUSSELL TYSON: That is fair, 14 although we do provide services in a variety of 15 ministerial and other department areas. 16 MR. BYRON WILLIAMS: And it would be 17 fair to say that you work with the majority of 18 independent power producers within British Columbia. 19 Would that be fair, sir? 20 MR. RUSSELL TYSON: That would be fair. 21 MR. BYRON WILLIAMS: And one (1) of the 22 producers you have collaborated with on the past is Run 23 of River Power producers. 24 Is that correct?

MR. RUSSELL TYSON: Run of River Power

- 1 Inc., yes.
- 2 MR. BYRON WILLIAMS: And if you could
- 3 just turn to page 7 of your curriculum vitae, marked as
- 4 TyPlan Exhibit number 4. And that should be the last
- 5 page, sir. If we scroll down just a little bit more,
- 6 we'll see that you worked with the Katzie, K-A-T-Z-I-E,
- 7 First Nation?
- 8 MR. RUSSELL TYSON: Yes.
- 9 MR. BYRON WILLIAMS: And Run of River
- 10 Power on the preparation of an impact benefit
- 11 agreement.
- Would that be correct?
- 13 MR. RUSSELL TYSON: That is correct.
- 14 MR. BYRON WILLIAMS: And would I be
- 15 correct in suggesting that the proposed hydro electric
- 16 project involved in this impact benefit agreement
- 17 related to the Upper Pitt watershed?
- MR. RUSSELL TYSON: Yes.
- 19 MR. BYRON WILLIAMS: And for the
- 20 reporter, 'Pitt' is P-I-T-T. And was the proposed
- 21 impact benefit agreement with Run of River Power Inc.,
- 22 or with its subsidiary, Northwest Cascade Power
- 23 Limited?
- 24 MR. RUSSELL TYSON: That I am not 100
- 25 percent sure of. I represented the firm, so.

- 1 MR. BYRON WILLIAMS: And who did you
- 2 say you represented, sir?
- 3 MR. RUSSELL TYSON: Well, it was Run of
- 4 River Power, but I believe the holding company was
- 5 Cascade Power.
- 6 MR. BYRON WILLIAMS: Okay. And in the
- 7 discussions, were you representing Run of River, or
- 8 were you representing the Katzie First Nation?
- 9 MR. RUSSELL TYSON: In this particular
- 10 instance, it was a combination of both, dare I say
- 11 that. As part of the development of the development
- 12 agreement, we spent a lot of time with Katzie
- 13 identifying what their key issues are and their
- 14 direction.
- As part of that, a number of issues --
- 16 key issues emerged out of that which we reported back
- 17 to Run of River. And Run of River then started
- 18 formulated a benefit agreement with the Katzie.
- 19 MR. BYRON WILLIAMS: Okay. And --
- 20 MR. RUSSELL TYSON: The rela -- sorry.
- 21 MR. BYRON WILLIAMS: And if we could
- 22 turn to page 3 of your curriculum vitae, sir, and
- 23 scroll down just -- that's perfect. We'll see
- 24 reference to work that -- an economic impact assessment
- 25 that you performed with regard to the Pitt River Power

6963 Project. 2 Is that correct, sir? 3 MR. RUSSELL TYSON: Yes. MR. BYRON WILLIAMS: And would it be correct to suggest that your work on the impact benefit agreement with the Katzie First Nation related to the Pitt River Power Project, sir? 7 8 MR. RUSSELL TYSON: It does. Yes, it 9 does. 10 MR. BYRON WILLIAMS: Now, did Pit Riv --11 MR. RUSSELL TYSON: Although the agree -- the impact agreement and the -- and the economic 13 impact assessment are separate items. 14 MR. BYRON WILLIAMS: And on the Pitt 15 River Power Project, I presume you were working for Run 16 of River or its --17 MR. RUSSELL TYSON: Yes. 18 MR. BYRON WILLIAMS: -- or its far --19 or its Northern Power --20 MR. RUSSELL TYSON: Subsidiary, yeah. 21 MR. BYRON WILLIAMS: -- its subsidiary, 22 Northern Power --23 MR. RUSSELL TYSON: M-hm. 24 MR. BYRON WILLIAMS: And the proposed

Pitt River Project intended to develop seven (7) small

- 1 hydro projects on the Upper Pit River in the Fraser
- 2 Valley Regional District area, sir?
- 3 MR. RUSSELL TYSON: That is correct.
- 4 MR. BYRON WILLIAMS: And its value was
- 5 roughly \$329 million. Would that be right?
- 6 MR. RUSSELL TYSON: Yes.
- 7 MR. BYRON WILLIAMS: Sticking with the
- 8 Upper Pitt project for a moment, at page 3 of your
- 9 report, again, right in front of us, you reference some
- 10 economic impact modelling of the proposed development
- 11 which ultimately was filed as part of the environmental
- 12 impact statement.
- Is that correct, sir?
- 14 MR. RUSSELL TYSON: I believe it was,
- 15 but I cannot remember at this time.
- 16 MR. BYRON WILLIAMS: That's what it
- 17 says on your report?
- 18 MR. RUSSELL TYSON: M-hm. Okay.
- 19 MR. MICHAEL WEINSTEIN: Sorry, Mr.
- 20 Williams, but just for the record, you're referring to
- 21 the resume, not the report.
- 22
- 23 CONTINUED BY MR. BYRON WILLIAMS:
- MR. BYRON WILLIAMS: Excuse me, I
- 25 misspoke. Thank you.

- 1 Would have had the -- would you have
- 2 done the modelling yourself, sir, or would you have
- 3 relied on the good folks at BC Stats?
- 4 MR. RUSSELL TYSON: I would have relied
- 5 on the good folks at BC Stats. However, everybody
- 6 running the model relies on the good folks at BC Stats.
- 7 Similarly, in Manitoba, the -- we rely on the good
- 8 folks at the Bureau of Statistics.
- 9 MR. BYRON WILLIAMS: And when you
- 10 reference to performing the -- the input model for the
- 11 Upper Lillooet Hydro Project, again, the -- the input
- 12 modelling analysis is performed by BC Stats.
- Is that right, sir?
- 14 MR. RUSSELL TYSON: That is correct.
- 15 Both models, whether you be in Manitoba Hydro or
- 16 British Columbia, are proprietary. We do not get a
- 17 chance to see the models or manipulate the model. We
- 18 provide inputs into the models, and the results are
- 19 then provided back to us.
- 20 MR. BYRON WILLIAMS: And one (1) of
- 21 your colleagues in the writing of the report was Ms.
- 22 Hallin, from BC Stats.
- 23 Is that right?
- 24 MR. RUSSELL TYSON: Lillian Hallin,
- 25 yes.

- 1 MR. BYRON WILLIAMS: Oh, sorry. And
- 2 just to assist the reporter further, both you and I are
- 3 going to agree to slow down in our speaking if we can.
- 4 I'm not sure. We're -- we're -- that's in theory. I'm
- 5 not sure if we'll achieve it, Mr. Tyson, but that's the
- 6 plan. Does that sound okay to you?
- 7 Now, Ms. -- Ms. Amblin (phonetic) would
- 8 be a recognized expert in -- in economic impact
- 9 assessment modelling.
- 10 Would that be fair?
- MR. RUSSELL TYSON: Ms. Amblin or Ms.
- 12 Hallin?
- 13 MR. BYRON WILLIAMS: Just give me one
- 14 (1) second. Who is your co-author on the project, sir?
- 15 MR. RUSSELL TYSON: Lillian Hallin.
- 16 MR. BYRON WILLIAMS: Ms. Hallin. I
- 17 misspoke. And Ms. Hallin would be an expert in -- in
- 18 economic impact assessment modelling.
- 19 Would that be fair?
- 20 MR. RUSSELL TYSON: Yes. She is very
- 21 familiar with the BC Stats model. And I want to
- 22 clarify that every province has their on -- own model
- 23 and their own individual that runs the models.
- 24 MR. BYRON WILLIAMS: Now, you do not
- 25 purport to have expertise in economic impact assessment

- 1 modelling, do you, sir?
- 2 MR. RUSSELL TYSON: I do not have
- 3 expertise in the modelling per se, because I'm not
- 4 allowed to do it. But I do interpret the model and
- 5 utilize the model to identify benefits for a variety of
- 6 projects.
- 7 MR. BYRON WILLIAMS: And --
- 8 MR. RUSSELL TYSON: Similarly, anybody
- 9 else in any other province in Canada does exactly the
- 10 same.
- MR. BYRON WILLIAMS: And in the course
- 12 of your work on this particular project for -- as a
- 13 independent expert consultant, there was a Statistics
- 14 Canada model run for you -- analysis run for you, and
- 15 that was done by Statistics Can -- Canada?
- 16 MR. RUSSELL TYSON: Yes, it was.
- 17 MR. BYRON WILLIAMS: And for the
- 18 purposes of your analysis, sir, in this paper Ms.
- 19 Hallin, H-A-L-L-I-N, assisted in the review of the
- 20 economic impact assessment based on the input modelling
- 21 undertaken?
- MR. RUSSELL TYSON: Yes. She assisted
- 23 with it.
- 24 MR. BYRON WILLIAMS: And if we could
- 25 just turn for a moment to TyPlan, or TYP Exhibit 1,

- 1 page 17, footnote 8 at the bottom.
- 2 Mr. Tyson, you'll see on the first line
- 3 of footnote -- oh, sorry, do you have it?
- 4 MR. RUSSELL TYSON: I have it. Thank
- 5 you very much.
- 6 MR. BYRON WILLIAMS: You'll see on the
- 7 first line of footnote 8 a suggestion that the -- the
- 8 comments provided in this review are limited in that
- 9 they are based on how the BC -- British Columbia IOM
- 10 calculates economic impacts?
- MR. RUSSELL TYSON: Yes.
- 12 MR. BYRON WILLIAMS: And would I be
- 13 correct in suggesting that Ms. Hallin may play -- have
- 14 played some role in identifying this limitation?
- MR. RUSSELL TYSON: No, I was fully
- 16 aware of the limitation.
- 17 MR. BYRON WILLIAMS: And similarly, on
- 18 page 20, scrolling down to the second last paragraph,
- 19 you'll see a reference to this analysis being limited
- 20 as without a full understanding of -- of either the
- 21 Manitoba economy or how it functions, and an
- 22 understanding of ongoing contractual arrangements
- 23 between Hydro and its service providers it is difficult
- 24 to under -- ascertain the extent of leakages and how
- 25 margins are treated?

- 1 MR. RUSSELL TYSON: Yes.
- 2 MR. BYRON WILLIAMS: And that would be
- 3 a -- a limitation in the analysis that you've
- 4 conducted, sir?
- 5 MR. RUSSELL TYSON: I don't see it as a
- 6 limitation. There are certain assumptions that
- 7 everybody makes by province regarding what goes in and
- 8 out of the input-output model. I'm not here, and nor
- 9 can I reference certain assumptions Manitoba Hydro has
- 10 maken -- has made regarding the leakages. However, we
- 11 made assumptions about what we thought they had done in
- 12 the analysis.
- 13 The simple fact of the matter is a
- 14 normal operating principle of input-output modelling is
- 15 that the benefits should incur in the province in which
- 16 you are developing the project. That was something
- 17 that we identified. The resultant analysis we
- 18 undertook was to run the Stats Canada model, which
- 19 suggested a higher and greater benefit to the Province
- 20 of Manitoba than that was illustrated by the MBS model
- 21 run.
- 22 However, I note that the Stats Canada
- 23 model is based on standard protocol and sta -- and
- 24 standard interprovincial flows between the provinces
- 25 that has been extensively studied.

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- 1 Manitoba Hydro made certain assumptions
- 2 regarding the inputs into the model; for example, the
- 3 selection of a third party contractor from out of
- 4 province. That would have a direct impact on model
- 5 results. Their experience that they note regarding
- 6 Wuskwatim and their relevant experience within the
- 7 local economy does have a significant bearing on the
- 8 outputs of the model.
- 9 Our point was simply to state that,
- 10 based on normal operating principles and the Canadian
- 11 model, the benit -- the benefits to Manitoba appear to
- 12 be understated. That was the whole intent of the
- 13 exercise.
- 14 MR. BYRON WILLIAMS: Okay. And -- and
- 15 so just so here when you say this review is limited,
- 16 you do not believe it limits your analysis?
- MR. RUSSELL TYSON: No, it does not.
- 18 It is because we don't have a complete familiarity with
- 19 the Manitoba economy. We cannot make assumptions about
- 20 how this economy works in Manitoba.
- 21 MR. BYRON WILLIAMS: And -- and, Mr.
- 22 Chair, I was remiss. I have -- I do have one (1)
- 23 exhibit, CAC Exhibit 45-14, which I -- I wish to have
- 24 presented today. I -- I think we can probably do
- 25 without it in our conversation, but we'll see -- we'll

- 1 see how
- 2 Mr. Tyson, in terms of the Upper Pit
- 3 Power Project, apart from the economic modelling, would
- 4 it be fair to say that another role you performed was
- 5 in public consultation at meetings such as with the
- 6 Pitt Meadows city council in February of 2007?
- 7 MR. RUSSELL TYSON: That is correct.
- 8 MR. BYRON WILLIAMS: And it would be
- 9 fair to say that the Upper Pit Project was the subject
- 10 of some controversy in that it involved an application
- 11 to change the boundaries of a provincial park to allow
- 12 for the construction of a transmission line associated
- 13 with the project?
- 14 MR. RUSSELL TYSON: You are correct,
- 15 3.2 kilometres through a provincial park which
- 16 triggered the BC parks boundary adjustment guidelines.
- 17 MR. BYRON WILLIAMS: And it would be
- 18 accurate to say that organizations, such as the Western
- 19 Canada Wilderness Coalition, took issue with the
- 20 project?
- 21 MR. RUSSELL TYSON: That would be
- 22 correct.
- 23 MR. BYRON WILLIAMS: And so when
- 24 environmental groups appeared at the Maple Ridge
- 25 council in December 2007 to urge the council to oppose

- 1 the project, you were there on behalf of Run of River
- 2 Power Inc. to speak to the benefits of the project,
- 3 agreed?
- 4 MR. RUSSELL TYSON: Yes. I was also
- 5 there with Katzie First Nation as imminent partners to
- 6 the project to garner support regarding this project.
- 7 MR. BYRON WILLIAMS: And similarly, in
- 8 March of 2008, when there were meetings at the Ramada
- 9 Inn Pitt Meadows, you were there with Run of the River
- 10 and Katzie First Nation to defend the project?
- MR. RUSSELL TYSON: Yes.
- MR. BYRON WILLIAMS: Now --
- MR. RUSSELL TYSON: For the Board's --
- 14 if I may, sir. The Pitt River Project was a very
- 15 contentious project, namely because it was proposed to
- 16 go through a provincial park. As part of the project's
- 17 development, we were working hard with both the Katzie
- 18 First Nation and the Squamish First Nation to develop
- 19 benefit agreements.
- 20 While we did not have a signed benefit
- 21 agreement in place at the time of the meetings that
- 22 have been proposed, we are well on our way to
- 23 establishing the benefit agreements that we were going
- 24 to sign off on ultimately associated with the project.
- MR. BYRON WILLIAMS: Sir, in terms of

- 1 your curriculum vitae at the top of page 2, would I be
- 2 correct in suggesting that the one (1) regulatory
- 3 proceeding related to hydro that you have appeared in
- 4 was when you appeared as an expert witness related to
- 5 the BC Hydro Site C project?
- 6 MR. RUSSELL TYSON: Correct.
- 7 MR. BYRON WILLIAMS: And as part of
- 8 your duties in that assignment, TyPlan prepared the
- 9 outdoor recreation mitigation plan found in -- in that
- 10 filing.
- 11 Would that be fair?
- 12 MR. RUSSELL TYSON: Yes, that is
- 13 correct. That is one of the documents that TyPlan had
- 14 tabled. TyPlan -- for the panel's edification, TyPlan
- 15 had a responsibility for aviation and navigational
- 16 concerns associated with the Pitt River. As recreation
- 17 is a critical element associated with any reservoir's
- 18 creation, we were also mandated to prepare a
- 19 recreational opportunities plan as well as the
- 20 mitigation plan associated with recreation.
- MR. BYRON WILLIAMS: So, Mr. Tyson, you
- 22 may have misspoke because I was talking about Site C --
- MR. RUSSELL TYSON: Yes.
- 24 MR. BYRON WILLIAMS: -- and -- and you
- 25 spoke of Pitt River, but I'm presuming you meant --

6974 1 MR. RUSSELL TYSON: Oh, sorry. My apologies. 3 MR. BYRON WILLIAMS: -- you meant to speak of --5 MR. RUSSELL TYSON: It is Site C. 6 MR. BYRON WILLIAMS: And in terms of 7 that management plan, in essence, you presented an outline of the proposed mitigation measures to support the changes from river-based recreation to reservoirbased activities? 10 11 MR. RUSSELL TYSON: That is correct. 12 MR. BYRON WILLIAMS: Now, in your 13 curriculum vitae, you indicate that you -- and this is at page 6, if you're looking for a reference, sir, 14 towards the bottom -- that you prepared the navigation 15 and aviation chap -- or section 26 of the EIS for Site 17 C. 18 Is that right, sir? 19 MR. RUSSELL TYSON: That -- that is 20 correct. 21 MR. BYRON WILLIAMS: Would I be correct 22 in suggesting that Dr. Tones, T-O-N-E-S, from Golder 23 Associates, also assisted in the preparation of that 24 document? 25 MR. RUSSELL TYSON: Yes, Pat Tones did.

- 1 MR. BYRON WILLIAMS: And he would
- 2 provide much of the scientific insight into that
- 3 particular analysis. Would that be fair?
- 4 MR. RUSSELL TYSON: Could you repeat
- 5 the question. On the navigation and --
- 6 MR. BYRON WILLIAMS: Yeah, he would
- 7 have provided much of the scientific insight into that
- 8 particular analysis?
- 9 MR. RUSSELL TYSON: No. I provided all
- 10 scientific analysis. My background, in addition to
- 11 what I do, is I wrote the federal guidelines on how to
- 12 do impact assessments for hydroelectric projects. It's
- 13 on the Transport Canada website. And I'm known as an
- 14 expert in that field, as well.
- MR. BYRON WILLIAMS: Okay. Fair
- 16 enough. Now, am I correct in suggesting your work on
- 17 Site C did not perform economic impact assessment
- 18 modelling?
- 19 MR. RUSSELL TYSON: It did not.
- 20 MR. BYRON WILLIAMS: And as part of
- 21 your work on Site C, you would not have examined the
- 22 economic displacement impacts and effects on consumer
- 23 spending engaged by a result in rate increases?
- 24 MR. RUSSELL TYSON: No, I did not.
- MR. BYRON WILLIAMS: At the risk of

- 1 humbling myself, sir, before a panel full of
- 2 economists, if I described econometrics to you as the
- 3 application of mathematics, statistical methods, to
- 4 economic data, would that be a simplified definition
- 5 that you are comfortable with?
- 6 MR. RUSSELL TYSON: Yes, it would.
- 7 MR. BYRON WILLIAMS: Would I be
- 8 accurate in suggesting you are not an econometrician?
- 9 MR. RUSSELL TYSON: I'm a -- I do a
- 10 significant amount of socioeconomic impact analysis. I
- 11 run the impact -- I don't run it, but I evaluate the
- 12 results of the economic impact analysis, and I've been
- 13 doing it for the last twenty-five (25) years. There
- 14 are a lot of PhDs with economics degrees that are far
- 15 more versed than I am, and I don't purport to be one.
- 16 But I am familiar with it.
- 17 MR. BYRON WILLIAMS: Fair enough, sir;
- 18 but you're not purporting to be an econometrician?
- MR. RUSSELL TYSON: No.
- 20 MR. BYRON WILLIAMS: And as part of
- 21 your work scope assignment 2 under TyPlan Exhibit 2,
- 22 you were to consider the economic displacement impacts
- 23 and effects on consumer spending to the extent
- 24 consumers will face increased electricity rates as a
- 25 result of the Preferred Development Plan.

25

6977 Is that correct? 1 2 MR. RUSSELL TYSON: That is correct. 3 MR. BYRON WILLIAMS: And in fulfilling that assignment, you performed what you would describe 5 as a high-level literature review of selected 6 documents. 7 Would that be fair? MR. RUSSELL TYSON: That is correct, which formed the basis of the opinion that I provided 10 regarding -- to -- to Manitoba Hydro regarding the potential effects. We note that a lot of the 11 12 information was more qualitative than quantitative, and 13 at the end of the day there were two (2) resounding 14 results that came out: that the impacts are restricted 15 to low income and the poor. And -- and we moved 16 forward from our recommendations based on that finding. 17 MR. BYRON WILLIAMS: Would it be fair 18 to say that your curriculum vitae does not set out any 19 assignments in which you examine the economic displacement impacts and effects of consumer spending 21 of increased electricity rates? 22 MR. RUSSELL TYSON: That would be 23 correct.

accurate to suggest that you have no peer-reviewed

MR. BYRON WILLIAMS: It would be

- 1 publications in which you examine the economic
- 2 displacement impacts and effects of consumer spending
- 3 on electricity rates?
- 4 MR. RUSSELL TYSON: We couldn't find
- 5 quantifiable evidence that suggested a number to us.
- 6 MR. BYRON WILLIAMS: And, sir, I was
- 7 asking in terms of you, and that you have not prepared
- 8 peer-reviewed documents in this area.
- 9 MR. RUSSELL TYSON: No, I have not.
- 10 MR. BYRON WILLIAMS: Now, in your scope
- 11 of work, and you went over this with My Learned Friend,
- 12 Mr. Weinstein, (1)(e), you were asked to provide a
- 13 critical analysis of community access improvement,
- 14 including those re -- related to health benefits.
- 15 Is that fair, sir?
- 16 MR. RUSSELL TYSON: That is fair.
- MR. BYRON WILLIAMS: Sir, in terms of -
- 18 if I use the term 'epidemiology' to suggest it is the
- 19 study of how diseases occur in different groups of
- 20 people and why, is that a definition that we can work
- 21 with?
- MR. RUSSELL TYSON: I can work with
- 23 that, yes, thank you.
- 24 MR. BYRON WILLIAMS: And would it be
- 25 fair to say that epidemiological information is used to

- 1 plan and evaluate strategies to prevent illnesses and
- 2 is a guide to the management of patients in whom
- 3 disease has already developed?
- 4 MR. RUSSELL TYSON: Yes.
- 5 MR. BYRON WILLIAMS: And, sir, would it
- 6 be accurate to say that you're not an epidemiologist?
- 7 MR. RUSSELL TYSON: I am not an
- 8 epidemiologist.
- 9 MR. BYRON WILLIAMS: And you do not
- 10 purport to have expertise in clinical medicine?
- MR. RUSSELL TYSON: No, I do not.
- 12 MR. BYRON WILLIAMS: And you do not
- 13 hold any post-secondary degrees in public health?
- MR. RUSSELL TYSON: No, I do not. But
- 15 I would like to clarify as part of this review for the
- 16 panel, the Canadian Environmental Assessment Act has
- 17 certain standards and protocols that are used as part
- 18 of a socioeconomic evaluation. We benchmarked current
- 19 best practice against what Manitoba Hydro had done.
- 20 You do not need to be a doctor to suggest otherwise.
- 21 MR. BYRON WILLIAMS: Sir, you mentioned
- 22 that you hold a master's certificate in project
- 23 management.
- Is that correct?
- 25 MR. RUSSELL TYSON: That is correct.

- 1 MR. BYRON WILLIAMS: And that's out of
- 2 the University of British Columbia?
- 3 MR. RUSSELL TYSON: No, the University
- 4 of Victoria.
- 5 MR. BYRON WILLIAMS: Victoria. Excuse
- 6 me. I misspoke. And would I be right in suggesting
- 7 that that involves about eighteen (18) days of in-house
- 8 courses over a four (4) month period?
- 9 MR. RUSSELL TYSON: I would -- yes,
- 10 that seems correct, based on what's on the website.
- 11 MR. BYRON WILLIAMS: And after
- 12 completing your master's, then you go on to the -- the
- 13 courses, you go on to write the exam.
- 14 Is that fair?
- 15 MR. RUSSELL TYSON: Yes. It's called a
- 16 PMP.
- 17 MR. BYRON WILLIAMS: Thank you.
- 18 Mr. Chair and members of the panel, with
- 19 regard to this witness, we appreciate his
- 20 acknowledgement, as we understand it, that he is not an
- 21 expert in economic impact assessment modelling, in
- 22 economic -- in econometrics, excuse me, in
- 23 epidemiology, clinical medicine, or public health.
- 24 Our client certainly sees value in
- 25 hearing his wev -- evidence. In giving weight to his

- 1 evidence, we suggest the panel take those limitations
- 2 into account. And those are -- would be our
- 3 submissions in this regard.

4

5 (BRIEF PAUSE)

- 7 THE CHAIRPERSON: Thank you, Mr.
- 8 Williams.
- 9 MR. SVEN HOMBACH: I suggest that we
- 10 next turn it over to Mr. Hacault.
- 11 THE CHAIRPERSON: Me. Hacault, s'il
- 12 vous plait.
- MR. ANTOINE HACAULT: Oui, M.
- 14 President. On behalf of MIPUG, we have no objections
- 15 to the qualification of Mr. Tyson as an expert,
- 16 subject, however, to the comments made by Mr. Williams
- 17 on economic modelling and the other items that he's
- 18 listed. I won't re-list them.
- 19 THE CHAIRPERSON: Mr. Williams, for the
- 20 benefit of my notes, would you repeat those
- 21 limitations, please?
- MR. BYRON WILLIAMS: Yeah, I noted five
- 23 (5): and -- economic impact assessment modelling,
- 24 econometrics, epidemiology, clinical medicine, and
- 25 public health. I do want to note that the witness, as

- 1 I understand it, will -- would say that he does,
- 2 through his practice, as well as through his training
- 3 in -- he would have experience in interpreting the
- 4 results of the modelling. And I should have noted that
- 5 originally.
- 6 THE CHAIRPERSON: Mr. Williams, you
- 7 mean interpreting the results of all five (5) areas?
- 8 MR. BYRON WILLIAMS: I'm just going off
- 9 his evidence on the one (1). He can -- if he wants to
- 10 say anything more. I was just speaking to economic
- 11 impact assessment modelling.
- 12 THE CHAIRPERSON: In terms of the --
- 13 I'm looking for... I don't believe Mr. Gange is here.
- 14 MR. SVEN HOMBACH: Mr. Gange advised
- 15 that he won't be in attendance this afternoon. He will
- 16 be in attendance tomorrow. I do note, Mr. Chairman,
- 17 that his client is in the back. I don't know if Dr.
- 18 Miller wants to speak to whether or not there's any
- 19 objections. But perhaps if the panel's prepared to
- 20 hear from Dr. Miller, he can indicate whether GAC has
- 21 any concern.
- THE CHAIRPERSON: Dr. Miller, please.
- 23 Have you any comments about this witness?
- DR. PETER MILLER: I think we'll find
- 25 him acceptable, subject to the enumerated

- 1 qualifications.
- THE CHAIRPERSON: Thank you for that,
- 3 Dr. -- Dr. Miller. And, Mr. Orle, please.
- 4 MR. GEORGE ORLE: Thank you. I just
- 5 have a few questions. And I'm not going to go over the
- 6 areas that have been ably covered by Mr. Williams, but
- 7 I do have a few questions on that.
- 8 When I go to page 2 of your long-form
- 9 resume, where you indicate at the top of the page that
- 10 you provided expert witness advice, can you tell me on
- 11 how many occasions you've been qualified as an expert?
- MR. RUSSELL TYSON: Sorry, it would be
- 13 two (2) times. I presented in front of the Alberta
- 14 Public Utilities Board regarding a land use and
- 15 economic development proposal from a gas company in
- 16 relation to a farmer who had a property of land
- 17 abutting the Town of Bonnyville.
- 18 And the second one was for the Site C
- 19 Clean Energy project specific to navigation and
- 20 aviation.
- 21 MR. GEORGE ORLE: Have you ever been
- 22 qualified as an expert in dealing with the impact of
- 23 rate increases upon consumers?
- MR. RUSSELL TYSON: No.
- MR. GEORGE ORLE: I note that many

- 1 parts of your report begin with the sentence that a
- 2 review of literature. And I've looked at some of the
- 3 literature that you have referred to, particularly in
- 4 dealing with rate impacts.
- 5 And I note at page 40 of your report
- 6 sets out information that you obtained from a CBC
- 7 report?
- 8 MR. RUSSELL TYSON: CBC Broadcasting
- 9 article.
- 10 MR. GEORGE ORLE: Were you aware of who
- 11 the experts or the people making the conclusions in
- 12 that -- that news report -- or who they were, or what
- 13 their qualifications were?
- 14 MR. RUSSELL TYSON: No, I was not.
- MR. GEORGE ORLE: I also note that you
- 16 use Wikipedia as a source reference for a number of
- 17 your comments.
- 18 Do you regard Wikipedia as a -- a good
- 19 source of information, or research information?
- 20 MR. RUSSELL TYSON: I find it -- I did
- 21 not -- I find Wikipedia adequate for review of certain
- 22 questions.
- 23 MR. GEORGE ORLE: Okay. Have you
- 24 yourself prepared any reports or any articles for peer
- 25 reviewed publications dealing with rate impacts upon

- 1 consumers?
- MR. RUSSELL TYSON: No, I have not.
- 3 MR. GEORGE ORLE: Have you yourself
- 4 done any evaluation or statistical analysis of First
- 5 Nations' consumer use of -- of electricity?
- 6 MR. RUSSELL TYSON: No.
- 7 MR. GEORGE ORLE: Are you aware of what
- 8 income category the majority of First Nations in
- 9 Manitoba fall into?
- 10 MR. RUSSELL TYSON: Yes, lower income
- 11 sectors.
- 12 MR. GEORGE ORLE: Okay. And do you
- 13 know that from a review of any literature, or is that
- 14 from a -- just a personal opinion on your part?
- 15 MR. RUSSELL TYSON: A review of
- 16 literature as filed in an NFAT business case and the
- 17 supporting EIS sections.
- MR. GEORGE ORLE: Okay. Thank you, Mr.
- 19 Chairman. I have the same reservations that Mr.
- 20 Williams does. Other than that, we'll -- we'll accept
- 21 the qualifications in the other areas.
- THE CHAIRPERSON: Thank you, Mr. Orle.
- I'll call on Ms. Saunders, please.
- 24 MS. JESSICA SAUNDERS: The MMF has no
- 25 objection to the qualifications of the expert as

6986 presented, as well subject to the comments made by Mr. Williams and Mr. Orle. Thank you. 3 THE CHAIRPERSON: Thank you. I believe that the appropriate thing would be for the panel to stand down for a -- a few minutes so that we can consult with each other and we will back very shortly. Mr. --7 MR. SVEN HOMBACH: Mr. Chairman, before we do that, I would suggest that Manitoba Hydro be 10 given an opportunity to speak to the matter. And I 11 understand that Mr. Weinstein may want to --12 THE CHAIRPERSON: I -- I apologize. I for -- I over -- I've overlooked that. 13 14 MS. ODETTE FERNANDES: Thank you. If I 15 could just have one (1) minute please? 16 THE CHAIRPERSON: Please. 17 18 (BRIEF PAUSE) 19 20 THE CHAIRPERSON: Ms. Fernandes, 21 please? 22 MS. ODETTE FERNANDES: Thank you, Mr. In terms of the discussion that occurred 23 Chairman. 24 around the economic impact assessment, Manitoba Hydro's view is that you don't need to actually run the input-

- 1 output models in order to interpret the results from an
- 2 economic impact per -- assessment perspective. And the
- 3 twenty-five (25) years of experience that Mr. Tyson
- 4 brings is more than sufficient to comment on the
- 5 economic impacts of the Preferred Development Plan and
- 6 its alternatives. And -- like, for an example,
- 7 Manitoba Hydro has similarly had to rely upon people at
- 8 the Manitoba Bureau of Statistics to run their
- 9 provincial input-output model in order to interpret
- 10 those results.
- 11 And I think it might be important, just
- 12 as an overview, we've heard quite a bit of what
- 13 individuals believe Mr. Tyson is not an expert in. I
- 14 think it might be useful for Mr. Tyson to remind us all
- 15 of what he is an expert in, just as an overview.
- 16 THE CHAIRPERSON: Given that
- 17 suggestion, I think there's an opening for Mr. Tyson to
- 18 comment on his expertise.
- MR. SVEN HOMBACH: Right. And, Mr.
- 20 Chairman, I understand that Mr. Weinstein may want to
- 21 make some brief submissions as well, which would be
- 22 appropriate given the concerns raised by Intervenors.
- THE CHAIRPERSON: Okay. Mr. Weinstein,
- 24 please.
- MR. MICHAEL WEINSTEIN: Thank you, Mr.

- 1 Chair. Just before Mr. Tyson is allowed an opportunity
- 2 to remind us of his expertise, I just have some
- 3 information to provide the panel to assist them in
- 4 their deliberations once we're all finished speaking.
- 5 The -- the first point that I wanted to
- 6 make is that in addition to the comments just made --
- 7 made by My Learned Friend Ms. Fernandes, the economic
- 8 impact assessment modelling, Mr. Tyson does have
- 9 expertise in economic impact assessment, and the
- 10 modelling, as he has said, is proprietary. So he's
- 11 confined to dealing with the proprietary modelling
- 12 results that he's given to work with.
- And I also echo Manitoba Hydro's
- 14 comments with respect to his expertise in econometrics
- 15 where he said that he has twenty-five (25) years of
- 16 experience doing that type of analysis. However, he's
- 17 not trying to take the step of holding himself out as
- 18 an econometrician.
- 19 Thirdly, with respect to the issue of
- 20 whether he's an expert in clinical epidemiology, Mr.
- 21 Chair, I submit that there was nothing in his scope of
- 22 work that asked him to undertake a -- a report of a
- 23 clinical epidemiological nature. Nor was there
- 24 anything requiring him to be an expert in public
- 25 health. Rather, he was required to do socioeconomic

- 1 analysis and to consider health benefits, which is what
- 2 he did in his report, and which we submit he
- 3 established he has expertise to -- to do so.
- I would also like to refer the panel to
- 5 the comments the Supreme Court in the case of R. v.
- 6 Marquard, which is a leading case on the admissibility
- 7 of expert opinion. And in that decision, the court, in
- 8 explaining that in most cases we are talking about not
- 9 necessarily needing to have the ultimate expert in that
- 10 opinion. The -- the issue is that the only
- 11 requirement, and I quote:
- 12 "The only requirement for the
- 13 admissibility of expert opinion is
- that the expert witness possesses
- 15 special knowledge and experience
- 16 going beyond that of the trier of
- 17 fact. Deficiencies in the expertise
- go to weight, not admissibility."
- 19 So, again, we would urge the panel to
- 20 consider that this may be a consideration when going to
- 21 weight, but not in terms of the admissibility of the
- 22 expert's opinion on these points.
- 23 THE CHAIRPERSON: Could you re --
- 24 reread the -- the extract from the judicial opinion,
- 25 please?

6990 MR. MICHAEL WEINSTEIN: 1 The -- and I want to be clear, Mr. Chair -- actually, the first portion of this -- oh, no, sorry, the entire thing is a 3 quote: 5 "The only requirement for the 6 admissibility of expert opinion is that the expert witness possesses special knowledge and experience 9 going beyond that of the trier of 10 fact. Deficiencies in the expertise 11 go to weight, not admissibility." 12 Now, Mr. Chair, I've brought copies of 13 that decision from the Supreme Court if the panel would like them, and I've brought copies for My Friends if 14 15 they would like to have a copy as well. 16 The last thing I'd speak to, Mr. Chair, is that Mr. -- My Learned Friend Mr. Orle made 17 18 reference to Mr. Tyson's review of the literature in 19 this area. And I just wanted to be clear on the exercise of reviewing literature. And for this, I'm 21 going to quote from a textbook on witnesses written by 22 Peter J. Sankoff of the Faculty of Law at University of 23 Western Ontario. In it, he says: 24 "It thus appears there are two (2) 25 very distinct types of facts that may

		6001
1	k	6991 be used by an expert in formulating
2	ā	an opinion. The first, to adopt the
3	C	distinction drawn by Lawton LJ and R.
4	7	v. Turner are those that form part of
5	t	the expert's judgmental expertise.
6	ר	These are not facts that are
7	C	concerned with the specific case
8	k	pefore the court, but are general
9	f	facts and data, a knowledge of which
10	f	forms part of the training and
11	€	expertise of the expert. They are to
12	k	be found in such things as textbooks,
13	á	articles, writings, and reports
14	I	prepared for the profession
15	Ģ	generally, and with which an expert
16	i	in the particular field involved may
17	k	be expected to be familiar, and which
18	ľ	ne or she may be expected to consult
19	į	in the preparation of an opinion.
20]	Indeed, absence of such knowledge or
21	C	consultation may be grounds for
22	ā	attacking the weight to be accorded
23	t	to the opinion."
24	And,	Mr. Chair, I also have copies of
25	this excerpt from t	that text.

- 1 Those are all my comments. Thank you.
- THE CHAIRPERSON: Mr. Wein -- thank
- 3 you, Mr. Weinstein.
- 4 Mr. Tyson, would you like to comment on
- 5 your expertise, please, for the benefit of the panel?
- 6 MR. RUSSELL TYSON: Thank you. All I
- 7 know is that in British Columbia, I'm a respected
- 8 practitioner. I have a lot of repeat clients that
- 9 respect the information that I provide. And I'm
- 10 constantly known for pushing the envelope of procedural
- 11 requirements and improving them so that we can optimize
- 12 socioeconomic benefits for First Nations and the
- 13 communities in which we live.
- 14 I referenced earlier the local job
- 15 opportunities analysis. The majority of my clients
- 16 have bought into that program, and the environmental
- 17 assessment office supports these type of activities
- 18 because the intent is to make sure that, as we move
- 19 forward with these projects, we do not just table
- 20 reports, but we table tangi -- tangible benefits for
- 21 the local communities in which these projects are being
- 22 developed.
- I have run the econo -- I have -- I have
- 24 interpreted the economic impact analysis, but as our
- 25 friends at Manitoba Hydro have said, the models are

- 1 proprietary and I can't get my hand on them. It is a
- 2 matter of interpreting the results of the model. I do
- 3 it, as well as other practi -- practitioners, and
- 4 essentially, I believe, and Manitoba Hydro can correct
- 5 me if I'm wrong, that's exactly what happened in the
- 6 case of the economic impact assessment that was done by
- 7 the Bureau of Statistics.
- 8 THE CHAIRPERSON: Thank you, Mr. Tyson.
- 9 I just want to confirm that -- with you though that,
- 10 based on the discussion, you do not profess to be an
- 11 expert on econometrics -- I'm sorry, econo -- could you
- 12 --
- 13 MR. RICHARD BEL: Econometrics.
- 14 THE CHAIRPERSON: -- econometrics,
- 15 sorry. My language is showing through.
- 16 MR. RUSSELL TYSON: I would agree.
- 17 THE CHAIRPERSON: Okay. And impact
- 18 assessment modelling? Or you consider yourself an
- 19 expert on --
- 20 MR. RUSSELL TYSON: I cannot use the
- 21 model, so I would not purport to be one.
- 22 THE CHAIRPERSON: Epidemiology and the
- 23 --
- 24 MR. RUSSELL TYSON: No, I am not.
- 25 THE CHAIRPERSON: -- and clinical

6994 medicine and public health? 2 MR. RUSSELL TYSON: No. 3 THE CHAIRPERSON: Okay. I just want to confirm something else here. 5 6 (BRIEF PAUSE) 7 THE CHAIRPERSON: Okay, I think that covers all the bases. So I think we should stand down for a few minutes so the panel can discuss. Oh, I'm 10 11 sorry. Mr. Hombach...? MR. SVEN HOMBACH: I don't have any 12 13 further questions to the witness. So if the panel 14 wants to stand down and deliberate, now would be an 15 appropriate time to do so. 16 THE CHAIRPERSON: I think we should. 17 Let's take a few minutes. And we -- say, take ten (10) 18 minutes. 19 --- Upon recessing at 1:45 p.m. 21 --- Upon resuming at 2:05 p.m. 22 23 RULING: 24 THE CHAIRPERSON: I believe that 25 everybody's in position now, so we can continue with

- 1 the proceedings.
- 2 The Board has considered the submission
- 3 of the parties and has also considered the case law
- 4 that was referenced by Mr. Weinstein. The Board has
- 5 concluded -- the panel has concluded that Mr. Tyson has
- 6 a requisite expertise to be qualified as an expert
- 7 witness, both expert witness with respect to the areas
- 8 outlined in his report.
- 9 Any comments from the parties that we've
- 10 heard today will go to the weight that the panel
- 11 ultimately attributes to the evidence we hear from --
- 12 we hear and read from Mr. Tyson. With that, I hope
- 13 that we can continue.
- 14 MR. MICHAEL WEINSTEIN: Mr. Chair --
- THE CHAIRPERSON: Mr. Weinstein,
- 16 please.
- MR. MICHAEL WEINSTEIN: Thank you.
- 18 MR. CHRISTIAN MONNIN: Merci.
- 19
- 20 EXAMINATION-IN-CHIEF BY MR. MICHAEL WEINSTEIN:
- 21 MR. MICHAEL WEINSTEIN: Just before Mr.
- 22 Tyson begins his presentation, I would like to please
- 23 tender the two (2) authorities as exhibits. So if I
- 24 could add these to the TyPlan exhibits. And the first
- 25 one would be the case from the Supreme Court, which is

6996 R. v. Marquard, M-A-R-Q-U-A-R-D. 2 --- EXHIBIT NO. TYP-5: Authority: R. v. Marquard 3 5 MR. MICHAEL WEINSTEIN: And the -- the second authority is from a textbook called 'Witnesses'. This will be TYP-6, and the authors are Mewett, M-E-W-7 E-T-T, and Sankoff, S-A-N-K-O-F-F. 9 10 --- EXHIBIT NO. TYP-6: Authority from textbook 11 called 'Witnesses' by 12 Mewett and Sankoff 13 14 MR. MICHAEL WEINSTEIN: Now, if it 15 pleases you, Mr. Chair, I'll pass it over to Mr. Tyson 16 to begin his direct presentation. 17 THE CHAIRPERSON: Mr. Tyson, please. 18 MR. RUSSELL TYSON: Thank you very 19 much, Mr. Chair, and thank you panel. I appreciate the opportunity to give this presentation. As noted, the 21 component of our work was the socioeconomic review. 22 And I'll just go through a series of slides to outline 23 what we did by task and also explain some of the 24 nuances associated with the Canadian Environmental 25 Assessment Act and the Environmental Impact assess --

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   sorry.
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3
                          (BRIEF PAUSE)
 5
                   MR. RUSSELL TYSON: So thank you very
   much. It's -- it's a pleasure to be here. And I'd
7
   like to just go through a series of slides that
   document -- or outline the findings of our report. And
   I would hopefully like to clarify for the panel and
   everybody in this room some of the nuances associated
10
11
   with the Environmental Impact Assessment Guidelines as
12
   well as the Canadian Environmental Assessment Act and
13
    its requirements, which may alleviate some of the
   concerns that were identified prior.
14
15
                   In terms of the scope of work, I think
16
   we spent enough time on running through what we did.
17
   don't want to reinvent the wheel, so I'll bypass that
18
   as quickly as possible. I would like to state,
19
   however, that the scope of objectives was to provide a
   high level review of the approach, methodologies, and
21
    findings of the NFAT business case and the EIS
22
   submissions that summorted -- supported the plan.
   was to confirm the reasonableness of the results and
24
   also benchmark against Canadian best management
25
   practices.
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- 1 In terms of an overview on how we
- 2 approached the review, there were three (3) specific
- 3 components and corresponding reports that were
- 4 referenced in the assessment. From an economic point
- 5 of view, the economic impact analysis utilized the
- 6 provincial input/output modelling to provide
- 7 indications of employment and GDP. And as noted
- 8 earlier in this hearing, each province has their own
- 9 input/output model, which is proprietary, and the
- 10 results are then interpreted.
- 11 The second component is the social,
- 12 which can be found in the environmental impact sta --
- 13 statement and also specifically in the socioeconomic
- 14 environment resource use and heritage resources
- 15 documents, Section 3, that discussed the economy;
- 16 Section 4, population, infrastructure, and services;
- 17 and Section 5, personal, family, and community life.
- 18 We also make reference to the
- 19 Environmental Management Plans and the corresponding
- 20 Socioeconomic Environmental Management Plan that has
- 21 been prepared for Manitoba Hydro to address issues and
- 22 residual effects of this project. We also reference
- 23 the adverse effects agreements that have been
- 24 established with some of the -- with all of the First
- 25 Nations regarding moving forward and addressing issues.

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- 1 The third component of our review was
- 2 the multiple account benefit cost analysis, which, as
- 3 the panel knows, is the standard approach used to make
- 4 policy decisions. And as highlighted in -- in the
- 5 deliberations to date, we note that the multiple cost -
- 6 benefit cost analysis, sorry, is intended to
- 7 highlight the advantages and disadvantages and enable
- 8 tradeoffs to be considered. Okay.
- 9 Broader non-monetized societal issues
- 10 are also introduced into this model for interpretation.
- 11 The focus is less on the actual number, but more on the
- 12 tradeoffs people have to make in their determination of
- 13 which plan moves forward. On the left side of screen I
- 14 illustrate the inner relationships; I've talked about
- 15 the reports that were utilized in coming up with the
- 16 review conclusions made in this assessment.
- 17 From an economic impact assessment
- 18 perspective, the approach that was taken by Manitoba
- 19 Hydro was to utilize the Manitoba Bureau of Statistics
- 20 input/output model and obtain results from that. At a
- 21 high level, the PDP was compared to that of the simple
- 22 gas turbine and the combined gas turbine. And we note
- 23 that there was a variation in the number of inputs into
- 24 the commodity tables; namely, forty-one (41) for the
- 25 PDP and only six (6) for the simple gas turbine, which

- 1 would have a effect on the results.
- 2 However, in light of the fact that the
- 3 IO models are linear, you can make a comparison. So by
- 4 upping the capital costs associated with the other
- 5 projects to mask Keeyask, you can have an indication of
- 6 which projects would be more ben -- beneficial.
- 7 Our analysis suggested that the Keeyask
- 8 generating project contributes about twice as many jobs
- 9 as the combined gas or simple gas project. And this is
- 10 in -- intuitive and simple because of the capital
- 11 nature of hydroelectric projects. It costs more to
- 12 make these things. And as a result, there's more
- 13 benefits in terms of jobs and opportunities.
- 14 The next step in the equation was to go
- 15 in a little more detail regarding the Physical
- 16 Development Plan and the results presented. What we
- 17 did, as part of our review, was at a high level look at
- 18 how the model is developed; namely, what were the
- 19 construction cost inputs. And then we looked at the
- 20 allocation of costs into the input/output categories,
- 21 and then we removed expenditures with no provincial
- 22 economic benefit, which, in accordance with the model,
- 23 are leakages from the provincial economy.
- 24 An example I can cite to you is the
- 25 importation of turbines, a significant cost to the

- 1 project when they are built outside of province,
- 2 outside of Canada, and brought in.
- 3 And then the key issue that comes out of
- 4 this was how the margins were dealt with. As we don't
- 5 know how they're dealt with, because they're based on
- 6 assumptions within the mod -- modeller's perusal, and
- 7 the margins are defined as the differences between the
- 8 total sales and the cost of goods sold, essentially
- 9 what we're talking about are the wholesalers and
- 10 retailers in the province as they are viewed as
- 11 intermediaries. We don't have a good handle on that as
- 12 well as the (UNREPORTABLE NOISE).
- 13 At the end of the day the cost inputs
- 14 provided by Manitoba Hydro were Class 2. They talked
- 15 about that in the engineering and construction cost
- 16 panel. They are adequate to run the model and detailed
- 17 enough. Manitoba Hydro allocated the cost input into
- 18 the IO categories, for the most part, correctly. We
- 19 noted a couple of small mistakes that would not
- 20 materially change the results of the report; and that
- 21 Manitoba Hydro did remove a series of expenditures with
- 22 no provincial economic benefit that were identified as
- 23 leakages.
- 24 However, what we were not sure of was
- 25 that the treatment of many purchases as leakages from

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- 1 the economy may underestimate the contributions to the
- 2 provincial economy and overstate the contributions to
- 3 the Canadian economy. The key issue is how the margins
- 4 were dealt with and treated as part of the model, i.e.
- 5 the transportation, wholesaling, and taxes costs.
- I noted earlier, a generally accepted
- 7 principle of IOM modelling is that the direct benefits
- 8 are incurred in the jurisdiction in which the project
- 9 is developed. We car -- compared the Manitoba
- 10 input/output results with the Statistics Canada
- 11 interprovincial input/output economic simulation model,
- 12 which is the same data as the Manitoba input/output
- 13 model. And their results are presented on Table 5 of
- 14 the main report.
- The key difference in the difference in
- 16 the results is the approach that Stats Canada model
- 17 reflects typical interprovincial patterns in each
- 18 industry, whereas the Manitoba Hydro input/output model
- 19 uses project specific expenditures. Both approaches
- 20 are reasonable. And I want to emphasize that, that
- 21 both approaches are reasonable.
- 22 We -- the Stats Canada model, at the end
- 23 of the day, suggests that the significant difference
- 24 between Manitoba and the rest of Canada, it was based
- 25 on the structure of the Manitoba economy as Stats Can

- 1 knows it. The key difference here is that Manitoba
- 2 Hydro, based on their experience with Wuskwatim and all
- 3 the contracts that they get to review, they have a good
- 4 local understanding of where the leakages would occur,
- 5 and they have allocated appropriately.
- The net result is that if we look at the
- 7 Stats Canada result compared to the Manitoba
- 8 input/output model and reference Stats Canada, it would
- 9 suggest that the benefits overall to Manitoba are
- 10 greater than stipulated in the Manitoba input/output
- 11 modelling.
- I note as part of my career that many
- 13 conservative efforts -- con -- conservative
- 14 observations are presented as part of these analysis,
- 15 so that ultimately the benefit would be bene -- better
- 16 than what was ide -- identified in the input/output
- 17 modelling presented by Manitoba Hydro.
- 18 The example that I can provide you is
- 19 that as part of the process the \$1.4 billion in civil
- 20 construction has been awarded to an out-of-province
- 21 contractor. The net result is the fact that there will
- 22 be leakages associated with that. The issue that comes
- 23 up is: Are there margins associated with bringing
- 24 people, products, and services into the province and
- 25 are they captured within the input/output model.

- 1 Manitoba Hydro suggests that they are not, based on
- 2 their experience, but the Stats Canada model suggests
- 3 there might be more benefits than identified.
- 4 The observations associated with
- 5 economic impact assessment is that the overall
- 6 assumptions by Manitoba Hydro associated with
- 7 construction and operations are reasonable. The second
- 8 point is that when we ran the Stats Canada model, we
- 9 found that there would likely be a greater proportion
- 10 of benefits in Manitoba than the rest of Canada
- 11 benefits, as the model reflects the typical expenditure
- 12 patterns in the each industry rather than project-
- 13 specific expenditures. But we note that the Stats
- 14 Canada model does not benefit from nocal -- local
- 15 knowledge and the experience that Manitoba Hydro has in
- 16 projects such as Wuskwatim.
- 17 At the end of the day, we still believe
- 18 that the benefits to Manitobans are somewhat
- 19 understated and that the margin embedded in the
- 20 purchase cost of those goods and services may not have
- 21 been attributed to the Manitoba producers who may be
- 22 producing such services, such as transportation or
- 23 wholesale.
- An example that came up and was
- 25 discussed as part of this review was cement. I know

- 1 that there are no cement plants in Manitoba and that
- 2 the cement will be coming from Alberta. However, to
- 3 get the cement from Alberta to the job site, to mix the
- 4 cement in the batch plant, and to pour the cement in
- 5 the batch plant, there are most likely some margins
- 6 that may be attributed to the Province of Manitoba as
- 7 opposed to being a leakage outside of Manitoba. That
- 8 is one of the examples that we have for why our
- 9 assessment suggests there would be more benefits.
- 10 Turning on to slide 13, an assessment of
- 11 gross provincial benefits over the life of the project,
- 12 we talk about economic life. The economic life
- 13 considers the life cycle of the facilities. In a
- 14 hydroelectric dam perspective, that economic life is
- 15 seventy-eight (78) years. From other resource options,
- 16 such as gas, the economic life is thirty (30) years.
- 17 So after that thirty (30) year period, that facility
- 18 has to be replaced.
- 19 Past the economic life, which is an
- 20 important part, a key element of dam maintenance is the
- 21 maintenance, safety, and rehabilitation that is
- 22 undertaken. And Manitoba Hydro, as well as all
- 23 utilities, have strong policies in place to maintain
- 24 their facilities.
- It is likely that the economic life of

- 1 the dam can be expanded to a hundred years, and the
- 2 concrete associated with the dam can last up to a
- 3 hundred and fifty (150) to two hundred (200) years. We
- 4 note, however, the electromechanical components of that
- 5 dam would have to be replaced.
- 6 That said, the bequest value -- or
- 7 bequest value associated with the project is that, over
- 8 time, over and past the economic life of the project,
- 9 there will still be revenues being derived from such a
- 10 project in the provincial economy. I provide as an
- 11 example the Anicut dam, which was build in the second
- 12 century, has been rehabilitated by the British and is
- 13 still in operation today.
- 14 When we speak to Northern and Aboriginal
- 15 community-based impacts, I just want to highlight some
- 16 nuances regarding the environmental assessment
- 17 requirements. Our review was based on experiencing
- 18 developing benefit agreements with First Nations, as
- 19 well as other hydroelectric developments associated
- 20 with the independent power producers in BC. We also
- 21 reviewed the Eastman 1-A Rupert diversion project --
- 22 Quebec-Hydro's -- as well as Churchill Falls and the
- 23 recent work we have conducted with Clean Energy on the
- 24 Site C Clean Energy project.
- 25 It is noted that Manitoba Hydro also

- 1 referenced and found benchmarks and best practices from
- 2 a number of these projects that have been referenced
- 3 and utilized in the development of their benefit
- 4 agreements.
- 5 Closer now? Sorry. You're not making
- 6 me feel warm here, you know. That's all right.
- 7 So based on our experience and based on
- 8 what we've looked at, we identified best practices that
- 9 would be utilized to evaluate whether or not benefits
- 10 to Northern communities and First Nations would be
- 11 evident. And they're simple: a proactive approach to
- 12 engagement. Start early, start often, and make sure
- 13 you build the relationship.
- 14 One (1) of the key aspects of any
- 15 relationship with a First Nation is that trust that has
- 16 to be established. It takes a lot of time and effort.
- 17 We know there's eight (8) years between Manitoba
- 18 Hydro's start to finish to create the Joint Keeyask
- 19 Development Agreement.
- The establishment of benefit agreements
- 21 is absolutely critical, and community ratification and
- 22 support is also a critical element of any plan going
- 23 forward. Obviously, equity ownership is a key
- 24 component of the review, as well as the identification
- 25 of skill sets, training, education, and jobs. Do not

- 1 underestimate the importance of this one. I spent nine
- 2 (9) months with one (1) First Nation trying to identify
- 3 skill sets and training opportunities that the band
- 4 members would pursue.
- 5 Linkages with federal and provincial
- 6 agencies. We've noted earlier in the panel
- 7 deliberations that Manitoba Hydro has sourced other
- 8 federal and provincial departments to secure additional
- 9 funding for training and education, as well as
- 10 establishment of clear mandates and performance
- 11 measures.
- The provision of management and
- 13 administrative support is another critical issue that
- 14 we've noticed on our projects in BC where, even though
- 15 we can come to the table, the availability of proper
- 16 management and administrative tools is lacking in
- 17 certain areas. And provided you come and help, then we
- 18 can respond accordingly.
- 19 Another key issue is pilot projects
- 20 obviously, and then post-project funding opportunities.
- 21 As noted earlier, Manitoba Hydro has referenced a
- 22 number of project experiences, such as Wuskwatim, the
- 23 Lower Churchill, as well as Eastman 1-A Rupert
- 24 diversion project in their development of what they
- 25 thought would be key components to the plan. We

- 1 suggest that Manitoba has met best practices in that
- 2 regard. And simply to highlight, the Joint
- 3 Keeyask Development Agreement signed by the four (4)
- 4 Nations is a comprehensive document. I'm not saying
- 5 it's perfect, but it will have to continue to evolve as
- 6 time goes on.
- 7 The next one is the development of the
- 8 Keeyask Infrastructure Project currently underway,
- 9 which represents a pilot project in which the training
- 10 and the education that has been set in place now can be
- 11 moved into action with local First Nations, and then,
- 12 hopefully, be a jumping board onto the Keeyask, or,
- 13 eventually, the Conawapa projects.
- 14 At this time, do I -- I just open it up
- 15 for the panel. Do you have any questions that you
- 16 might want to ask?
- 17 MS. MARILYN KAPITANY: Mr. Tyson, I
- 18 noticed that you say that the benefits may have been
- 19 underestimated, the benefits to Manitoba.
- MR. RUSSELL TYSON: Yes.
- 21 MS. MARILYN KAPITANY: Does the model
- 22 or any of the work you do say anything about the
- 23 distribution of those benefits within Manitoba?
- 24 MR. RUSSELL TYSON: I'm not sure
- 25 whether we could do that in the Manitoba context. In

7010 the Canadian context, I can sometimes regionalise the benefits. I'm not sure how the Manitoba model is set up, so I don't know whether it could do that. But that 3 would have to be something you ask the Bureau of Statistics. 6 MS. MARILYN KAPITANY: 7 (BRIEF PAUSE) 9 10 MR. RUSSELL TYSON: To continue, a 11 couple of key aspects associated with Northern and 12 Aboriginal groups: One (1) of the key things that all 13 of these projects have to embrace is the concept of lessons learned. We know there's going to be mistakes. 14 15 We know there's differences between a contractor's 16 continued focus on schedule and meeting deadlines, 17 versus Aboriginal or culturally-specific spiritual 18 days, so on and so forth. This is an evolving process 19 and has to be looked at in that light, that, over time, certain things will get resolve and continue to be resolved. 21 22 Monitoring is another key element. 23 we note that the adver -- Advisory Group on Employment, 24 AGE, as well as the Construction Advisory Committee, 25 are available to First Nations and employees to address

- 1 issues going forward.
- In addition, a series of standard EIS
- 3 practices include the construction management plans and
- 4 more recently an evolving plan regarding socioeconomic
- 5 impact modelling, which is a critical element of EISs
- 6 going forward.
- 7 As identified on slide 18, I'd like to
- 8 reference the reports that are utilized in the
- 9 socioeconomic review. We've mentioned these before,
- 10 but I just want to highlight them again. And it is in
- 11 our opinion, having worked on numerous EISs, that the
- 12 work that Manitoba Hydro has done in this regard does
- 13 meet best practice. And that is specifically the
- 14 Keeyask generating station and the supporting volume,
- 15 Socio-Economic Environment, Resource Use and Heritage
- 16 Resources, and all the appendices.
- 17 Those documents were authored by the
- 18 partnership. The development of those documents
- 19 incorporated the Cree world view and some of the issues
- 20 inherent in moving forward.
- 21 Again, one (1) of the critical issues
- 22 that we all have to understand associated with the work
- 23 that was done is that there are standard practices and
- 24 approaches that the Canadian Environmental Assessment
- 25 Act requires people to follow, of which all studies

- 1 being undertaken have to look at the environmental
- 2 setting, which is the baseline, undertaken an
- 3 environmental effects assessment, follow through with
- 4 mitigation, and then identify residual project effects
- 5 to be addressed going forward.
- 6 In addition to that, adverse effects
- 7 agreements have been put in place with all First
- 8 Nations involved in the project. And they have been
- 9 designed specifically to address and resolve all known
- 10 and foreseeable project adverse effects.
- 11 From a health perspective, although I am
- 12 not a doctor, we will reference back into the role of
- 13 the environmental assessment in this review. Again,
- 14 health is addressed in Section 5: Personal, Family, and
- 15 Community Life.
- And as part of the environmental impact
- 17 assessment guidelines, they create something called
- 18 VECs: Value Environmental Components. These are the
- 19 key topics that will be studied as part of the
- 20 evaluation. And in terms of the health effects, they
- 21 looked at community government's goals and plans,
- 22 community health, mercury and human health, public
- 23 safety and worker interaction, as well as travel,
- 24 access and safety, and aesthetics.
- 25 Again, I emphasize that our standard

- 1 approaches and requirements associated with the
- 2 Environmental Assessment Act, which Manitoba Hydro has
- 3 followed.
- 4 Education. This is driven by the
- 5 benefit agreements that have been established with
- 6 First Nations. But I do note that the Mackenzie Valley
- 7 gas pipeline, the Eastman 1-A and Rupert diversion, as
- 8 well as the Lower Churchill Project Falls (sic) studies
- 9 were referenced in the development of the plans.
- 10 Recent experience with Wuskwatim also was utilized to
- 11 eventually come up with a plan for addressing
- 12 educational and job opportunities. The Joint Keeyask
- 13 Development Agreement is also referenced.
- 14 Culture. We can do this quickly.
- 15 Again, valued environmental components were established
- 16 as part of the environmental impact statement guideline
- 17 requirements which confirms with the public what areas
- 18 of study will be undertaken. Subsequent to that, the
- 19 environmental impact assessment is done in accordance
- 20 with best practices associated with that.
- In regard to more global perspectives on
- 22 best management practices, we -- we reference the
- 23 Hydropower Sustainability Assessment Protocol. The
- 24 Keeyask Limited Partnership had a third-party review
- 25 based on that document, and the results indicated that

- 1 the project meets or exceeds basic good practice in all
- 2 of the twenty-two (22) categories studied, and it meets
- 3 best proven practice in sixteen (16) categories. We
- 4 note that there are some gaps identified, but all of
- 5 those gaps can be somewhat rationalized by the fact
- 6 that there are different regulatory requirements in
- 7 Canada compared to the rest of the world.
- From a human health risk assessment, we
- 9 note that both Health Canada and the World Health
- 10 Organization, and the United States Environmental
- 11 Protection Agency, USEPA, utilize the human health risk
- 12 accept -- assessment framework for assessing health
- 13 impacts associated with projects. We note that a study
- 14 based on the human health risk assessment model was
- 15 undertaken for this project.
- 16 We also note that the habitat health
- 17 impact consulting report was undertaken in regard to
- 18 how the human health risk assessment compared to health
- 19 impact assessment. And health impact assessment is an
- 20 emerging process in which it tries to align itself
- 21 closer to the intent of an environmental impact
- 22 assessment. And the results of that rep -- report, I
- 23 quote, state:
- 24 "The approach to community health
- 25 effects in the Keeyask EIS closely

		7015
	1	7015 parallels HIA and addresses a broad
	2	range of associated health issues and
	3	exemplifies the inclusion of
	4	stakeholders in the EIA/HIA process.
	5	While some smaller gaps remain in the
	6	assessment of health impacts and
	7	mitigation strategies, the overall
	8	quality of the assessment of
	9	community health is high."
	10	Another key issue that we have to bring
	11	to the table because it is important, again from an
	12	environmental impact assessment, is the identification
	13	of a local study area versus a regional study area.
	14	Some of the World Bank recommendations suggest
	15	broadening the scope in the area of the impact
	16	assessments to include more communities and more
	17	groups.
	18	Under the Environmental Assessment Act
	19	as part of the environmental impact statement guideline
	20	preparation and delivery of the project, a local study
	21	area and a regional study area has to be est
	22	established and then discussed with the community prior
	23	to moving forward. In the case of Keeyask and Conawapa
	24	as part of the PDP, this local study area is presented
	25	on your screen on on the left side, which includes
١		

- 1 Thompson, Gillam, and the Cree Nation communities.
- 2 And the effect, essentially, is that the
- 3 project impacts for the most part will occur and will
- 4 be studied within that local study area. So spatially
- 5 delineating where the study is being undertaken is a
- 6 critical element of this. We noted in our Site C
- 7 project that was one (1) of the key issues as part of
- 8 the EA deliberations.
- 9 In addition to that any EIS is now
- 10 subject to incredible scrutiny. But in my opinion what
- 11 is happening in today's world is that ongoing
- 12 monitoring remains the critical element to -- to
- 13 ensuring that project residual effects and the effects
- 14 on all users are addressed accordingly. A number of
- 15 monitoring programs have been in place. We have looked
- 16 at those monitoring programs in comparison to what was
- 17 done on other major projects, and we find that they are
- 18 similar. At this time I'm on slide 24. Do we have any
- 19 questions regarding that?

20

21 (BRIEF PAUSE)

- MR. RUSSELL TYSON: Okay. So community
- 24 access improvements related to health, education, and
- 25 cultures. The general observations is that issues have

- 1 been identified based on discussions with affected
- 2 parties, past experience inclusive of traditional
- 3 knowledge. A Cree world view approach was taken, and
- 4 the partners actually were the ones that authored their
- 5 reports.
- 6 Adverse effect agreements were designed
- 7 to address and resolve all known foreseeable project
- 8 adverse effects. And specific to the environmental
- 9 impact statement, comprehensive reporting was done in
- 10 Sections 3, 4, and 5, which provide best practices in
- 11 accordance with our experience with EIS preparations.
- We also note, in conclusion, independent
- 13 third-party reviews undertaken that supported the
- 14 general findings outlined above.
- I would now like to briefly discuss
- 16 consumer displacement impacts and effects on consumer
- 17 spending. I provide for your review a high-level
- 18 overview of the current status of rates. From a global
- 19 perspective, the screen illustrates that Canada has one
- 20 (1) of the lowest rates in the global economy and that
- 21 Quebec, Manitoba, and British Columbia, for the most
- 22 part, had the lowest rates. This is presumably because
- 23 of the historic investment in hydro electric facilities
- 24 that these provinces made.
- 25 As noted, there are rate application

- 1 increases throughout the majority of utilities in
- 2 Canada, including SaskPower, BC Hydro, Ontario Hydro,
- 3 and Quebec-Hydro. It is expected that these rate
- 4 increases will increase over time.
- 5 Our literature review of increased
- 6 energy costs on consumers confirmed that the middle
- 7 class and upper class are not affected as much because
- 8 those costs get absorbed through the greater disposable
- 9 income. However, lower income and those on fixed
- 10 income households, and the poor, are most affected by
- 11 any proposed rate increase.
- 12 In terms of solutions to this issue, the
- 13 literature also suggests that energy efficiency
- 14 programs are one of the key aspects of moving things
- 15 forward. We note that Manitoba Hydro does have a
- 16 number of Power Smart programs that should be focussed
- 17 on -- towards addressing this issue: affordable energy,
- 18 the Power Smart and First Nations, and the
- 19 refrigeration replacement projects.
- 20 Continued focus was a recommendation of
- 21 our report, that we have to improve these programs to
- 22 ensure that they are actually doing what they intend to
- 23 do. But participation is two (2) ways. Manitoba Hydro
- 24 has to promote these to the general public, and the
- 25 public themselves have to correspondingly come to the

- 1 table and utilize what's been provided to them.
- In summary, Canada exhibits one of the
- 3 lowest utility rates in a global context. Manitoba,
- 4 Quebec, and British Columbia have the lowest rates in
- 5 Canada, presumably from the historic investments in
- 6 hydro projects. Rates are expected to increase
- 7 substantially over the next decade. And literature
- 8 suggests that ener -- energy efficiency programs,
- 9 whether it be the broader DSM or the Power Smart
- 10 programs, are the means and solutions to move it
- 11 forward. The key economic sector that's impacted are
- 12 the low income households and those on fixed income
- 13 regardless of location. And that the key issue of the
- 14 success of this program will all be about the proper
- 15 implementation and monitoring of the specific programs.
- 16 Shall I continue? I will just briefly
- 17 discuss the socioeconomic impact of the alternatives.
- 18 Again, we highlight the use of multiple account --
- 19 multiple account benefit cost analysis. And the intent
- 20 of that process is to identify both tradeoffs, as well
- 21 as the advantages and disadvantages, keying in on the
- 22 incremental revenue of these projects. I'll try and
- 23 run through this quickly for you.
- 24 From an account perspective, the market
- 25 evaluation is obviously based on the discount rate that

- 1 is utilized. A 6 percent discount rate has been
- 2 utilized for the NFAT. It does appear reasonable with
- 3 the literature that was presented both in the NFAT and
- 4 the literature that we reviewed. We note that BC Hydro
- 5 uses a rate of 5.5 and 6 percent. We therefore
- 6 conclude that it was a reasonable assumption.
- 7 The Manitoba Hydro customer, obviously
- 8 rates are going to increase. Our analysis indicated
- 9 that all projects will require rate increases
- 10 associated with -- with households and that the
- 11 cumulative increase for the PDP would be a hundred and
- 12 eight (108), as stated in the NFAT. An annual rate
- 13 increase of 3.9 percent. The projected cumulative
- 14 rate, an increase of -- for the PDP would be 108
- 15 percent, an annual -- equating to a rate increase of
- 16 3.95 percent annually. Similar projects have similar
- 17 impacts, although the key issue that results from this
- 18 is pay now versus pay later.
- 19 From a Manitoba government perspective,
- 20 the key is in and around the water rentals that are
- 21 generated and the capital taxes that are created.
- 22 Obviously, the hydro projects are the ones that
- 23 generate the most in that regard.
- 24 From a Manitoba economy point of view,
- 25 the concept of economic rent is introduced and we look

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- 1 at a comparison of gross ranges over alternative life
- 2 cycles as well as a comparison of the incremental
- 3 income based on the assumptions regarding economic rent
- 4 and jobs being filled based on regional employment
- 5 differences. We agree with the principle of economic
- 6 rent being applied here. It is something that other
- 7 economists also use.
- 8 From a social account, this is where the
- 9 bequest value comes in. We talked about over the life
- 10 of the project, that hydro projects over time continue
- 11 to provide revenues to the provincial government.
- 12 One of the areas that planners like are
- 13 -- is in regard to the significance of the pathways
- 14 that were identified in this report. I note that I've
- 15 cut off some of the left side of this illustration on
- 16 page 64 of the report. A detailed summary was there.
- 17 Suffice it to say, the InterGroup's
- 18 report concluded that the pathways are more important
- 19 than the plans. I concur, as a planner with that; the
- 20 pathways are critical element, providing flexibility in
- 21 the decisions going forward. However, it is noted
- 22 certain critical time frames are identified upon which
- 23 decisions would have to be made.
- So in conclusion, the socioeconomic
- 25 impact multiple account benefit cost analysis is an

- 1 appropriate approach to look at these things. It
- 2 provides tradeoffs to be identified,
- 3 advantages/disadvantages to be highlighted, and
- 4 incremental revenues to be defined. The issue of using
- 5 a seventy-eight (78) year metric was identified by La
- 6 Capra in their reporting and is an issue going forward.
- 7 Pathways are more important than plans.
- 8 And finally, I would like to conclude
- 9 with a high-level review of provincial economic
- 10 benefits based on other projects.
- 11 THE CHAIRPERSON: Well, before you go
- 12 there, could I ask you to go back to 39 -- the bottom
- 13 of 39?
- MR. RUSSELL TYSON: Yes.
- 15 THE CHAIRPERSON: The -- the last
- 16 bullet there:
- "Government to provide PUB direction
- 18 regarding reducing risk and
- 19 uncertainty."
- 20 I'm not sure what you're referring to
- 21 there.
- MR. RUSSELL TYSON: Yeah, this was in
- 23 relation to Conawapa and the decision point with
- 24 Conawapa. We -- we noted that that was a critical
- 25 timeline associated with making program decisions.

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- 1 So when identifying projects that would
- 2 be benchmarked, we had to say -- we had to find some
- 3 that are in the same geographic location that have
- 4 similar -- forest ecologies, that have similar capital
- 5 costs, and projects that are built on rivers with
- 6 existing hydroelectric facilities.
- 7 The benchmarks we identified for this
- 8 review included the Newfoundland, Labrador, Churchill
- 9 Falls, and Quebec-Hydro Eastmain Project. As you can
- 10 see on this slide, they are located in the North. And
- 11 the processes they followed to ascertain economic
- 12 benefits were similar to what was done with Manitoba
- 13 Hydro.
- 14 And some of the program initiatives,
- 15 such as procurement methodologies, so on and so forth,
- 16 were also implemented as part of the Manitoba Hydro
- 17 process. Quebec-Hydro has similar things. They
- 18 identified nine (9) supporting agreements -- or seven
- 19 (7) supporting agreements to move forward and address
- 20 local concerns with First Nations and Aboriginal
- 21 groups.
- 22 So the key conclusions of this review
- 23 was to provide a high level but critical review of the
- 24 reasonableness of the approach, methodology, and
- 25 findings from a socioeconomic perspective.

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- 1 The economic impact assessment results
- 2 are reasonable. However, the Stats Canada model, if
- 3 you reference that model, provides and suggests a
- 4 greater Manitoba benefit than -- than what was proposed
- 5 by the Manitoba Hydro input/output model results. The
- 6 key there is how you address leakages, as well as the
- 7 local experience regarding contracts and where sources
- 8 of employment and supplies were coming from.
- 9 The multiple account benefit cost
- 10 analysis is an appropriate methodology to determine
- 11 socioeconomic benefits in which tradeoffs, advantages
- 12 and disadvantages and net incremental revenues can be
- 13 identified.
- 14 The use of a seventy-eight (78) metric
- 15 restricts the understanding for the shorter-term
- 16 implications. And the focus on energy efficiency
- 17 program delivery, namely specifying project -- or Power
- 18 Smart programs, is one (1) of the critical issues to be
- 19 addressed going forward.
- 20 Manitoba Hydro has optimized Northern
- 21 and Aboriginal benefits via partnership agreements and
- 22 so on, and the key is in the implementation and
- 23 monitoring of the programs that they have identified.
- 24 Manitoba has followed the best practices
- 25 exhibited throughout Canada and our experience with

- 1 other projects.
- 2 Thank you very much.
- 3 DR. HUGH GRANT: I just wanted to ask a
- 4 few things about the input/output model you've used. I
- 5 don't doubt at all the sort of general conclusions you
- 6 reach, because I think it's fairly intuitive that these
- 7 large construction projects have a pretty big
- 8 employment impact. They're pretty labour intensive and
- 9 stuff.
- 10 I'm just going to quarrel though a bit
- 11 with a few things you said. And -- and I think
- 12 Manitoba Hydro said the same thing, that an
- 13 input/output table is linear and therefore scalable.
- 14 And the -- the general critique of input/output tables
- 15 is that it's -- the -- they're these fixed
- 16 coefficients, and they're essentially not scalable if
- 17 you have any kinds of economies of scale in an
- 18 industry.
- 19 So, for example, suppose Winnipeg's
- 20 retail sector was made up of a lot of small, owner-
- 21 operated stores, and you wanted to estimate the impact
- 22 of IKEA coming. Then -- then you're going to take
- 23 input/output coefficients appropriate to some mom and
- 24 pop stores and scale it up and try to predict the
- 25 impact of -- of IKEA.

- 1 And so my concern is you've got an
- 2 input/output table. I'm looking at the Stats Canada
- 3 one for --
- 4 MR. RUSSELL TYSON: Okay.
- 5 DR. HUGH GRANT: -- 2009. It's a
- 6 snapshot of that particular industry at that time, and
- 7 then it's projected, used to forecast what might be the
- 8 impact of a very large-scale project. And -- and so
- 9 that's one (1) of the concerns I had.
- 10 And just -- another thing I'm noting,
- 11 because I was just looking these things and using again
- 12 the Stats Canada figures and the table you'd provided
- 13 on page 90, electric power generation, transmission,
- 14 and distribution --
- MR. RUSSELL TYSON: M-hm.
- 16 DR. HUGH GRANT: -- three point six
- 17 (3.6) jobs per -- I think it's a million dollars of
- 18 output.
- MR. RUSSELL TYSON: M-hm.
- 20 DR. HUGH GRANT: Okay. So it's, you
- 21 know, something to work with. But if you just go to
- 22 the same figure for Quebec, which is another hydro one,
- 23 I was surprised to see it's one point o-six (1.06).
- MR. RUSSELL TYSON: Yes.
- DR. HUGH GRANT: And so you've got --

- 1 you know, it's three and a half (3 1/2) times
- 2 difference for what you would think would be fairly
- 3 similar based industries. And the BC number is one
- 4 point nine-one (1.91).
- 5 And so I'm just a bit concerned about
- 6 how reliable these sort of simple numbers are as a
- 7 guide to these sorts of things.
- 8 MR. RUSSELL TYSON: Yes, and I'll try
- 9 and answer both questions. The original input/output
- 10 model was simply based on commodities. The whole focus
- 11 was on the commodity groups.
- 12 Over time, the input/output model has
- 13 evolved, and now they are using more inputs in regard
- 14 to the products and services or the whole -- or the
- 15 wholesale and the retailers. They're recognizing the
- 16 importance of that sector in modelling, and now the
- 17 distribution of the codes within the modelling have
- 18 changed to reflect the importance of the local retail
- 19 and wholesaling marketplace.
- 20 That's an evolving process, but you're
- 21 absolutely right. Somewhere along the line, there's a
- 22 lot of ambiguity with what the results would suggest.
- 23 But at the end of the day, what we're finding now is
- 24 that there is a constant underestimation of the value
- 25 of the smaller wholesale and retail areas.

- 1 As for the comparison of the provincial
- 2 numbers and the multipliers, again, we -- we referenced
- 3 the Stats Canada model, which is based on a whole
- 4 series of databases. And then we compared that to the
- 5 Manitoba Hydro model assumptions, and we thought that
- 6 was a little different.
- 7 Where the truth is, I do not know, and I
- 8 admit to that. Where the truth, I think it will be, is
- 9 somewhere in the middle.
- 10 DR. HUGH GRANT: Okay. I'm just -- I
- 11 guess my only point is that it would come as a pretty
- 12 big surprise to me to say that an extra million dollars
- 13 of output of electrical power generation and
- 14 distribution in Manitoba creates three (3) times as
- 15 many jobs as the same increase in output would in -- in
- 16 Quebec, which is -- I'm just reading the input/output
- 17 table here.
- 18 But -- but despite that, I accept the
- 19 basic premise that I think these large labour-intensive
- 20 construction projects have the biggest economic impact.
- 21 My second one, though, and it's been
- 22 over -- I don't know, it's been three (3) or four (4)
- 23 days since we talked about discount rates. I hope this
- 24 process never ends, because if you're lecturing to
- 25 students, they just walk out of the room on you when

- 1 you bore them to tears. But here, at least the panel
- 2 has to stay and listen to me.
- 3 You said 6 percent is reasonable as a
- 4 discount rate. You noted -- you note that it's a very
- 5 important high sensitivity to the outcome. And you
- 6 said 6 percent is reasonable.
- Reasonable in what respect? Because
- 8 we're surrounded by lawyers in the room, so I'm getting
- 9 carried away here. But I used to do work for some
- 10 ambulance chasing lawyers in the city and I would do
- 11 this economic compensation stuff, and they would just
- 12 hand me 3 percent. That's what you use. It's -- it's
- 13 leg -- it -- it said there in writing: 3 percent is the
- 14 real rate of interest that you use.
- Part of my reason for asking this
- 16 question is maybe to speak through you to Manitoba
- 17 Hydro and others, but we heard Mr. Rainkie say the
- 18 other day that he cares about future generations
- 19 intensely long after I'm dead. We hear about bequest
- 20 values. And then you select a discount rate that
- 21 basically turns all of those concerns about the future
- 22 into nothing.
- So I guess I'm saying if you're going to
- 24 be consistent to care about the future, it seems quite
- 25 plausible in a time when the real rate of interest

- 1 right now is what, 1 percent, 1 1/2 percent, that you
- 2 would use an extremely low discount rate to measure
- 3 these things.
- 4 Is that not warranted?
- 5 MR. RUSSELL TYSON: It would be
- 6 warranted. Again, a big part of what we did was we
- 7 looked at best practices and other examples that are
- 8 out there, and we referenced the Site C project of BC
- 9 Hydro. And because they were similar rates, we just
- 10 assumed as a result of that that would be an applicable
- 11 rate to use, as it's been done in other areas.
- I agree with you, however, that the
- 13 range of rates is astronomical from what the pure
- 14 economists would suggest.
- 15 DR. HUGH GRANT: And -- and I think
- 16 there -- there -- the variation is for a reason often--
- MR. RUSSELL TYSON: Yes.
- DR. HUGH GRANT: -- when you get,
- 19 often, private sector groups who want to exaggerate the
- 20 social cost of capital to make public projects look
- 21 less appealing.
- MR. RUSSELL TYSON: Yes.
- 23 DR. HUGH GRANT: So I think, you know,
- 24 I would look for a similar critical perspective on just
- 25 saying 6 percent is reasonable. Sure, it's within the

- 1 range of acceptability, but, you know, maybe providing
- 2 more guidance as to how we should -- what kind of
- 3 discount rates we should use to sort of look at these
- 4 things. That's it. Thanks.
- 5 MR. RUSSELL TYSON: Thank you.
- 6 MR. SVEN HOMBACH: May I interject for
- 7 one (1) moment? Not purporting to give evidence, but
- 8 having been an ambulance chasing lawyer, at least
- 9 having dealt with personal injury matters, I -- I
- 10 thought I could briefly speak to the 3 percent discount
- 11 rate. And for what it's worth that discount rate is
- 12 actually mandated by Subsection 83(2) of the Court of
- 13 Queen's Bench, and so it's not that the lawyers have a
- 14 choice.
- DR. HUGH GRANT: Mr. Speaker --
- 16 supplementary, Mr. Speaker. I would like to reference
- 17 the Canadian Bar Association document that gives a very
- 18 careful explanation and rationale for that 3 percent.
- 19 So it may be not you as an individual lawyer, but it's
- 20 your collusive cabal of lawyers that are setting this
- 21 in use. I'm not going to speak again through the
- 22 hearing.
- 23 THE CHAIRPERSON: Mr. Soldier's
- 24 daughter is a lawyer.
- 25

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7032
                          (BRIEF PAUSE)
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 3
                  THE CHAIRPERSON: Mr. Soldier's
   daughter is a lawyer. Is that what you said?
 5
 6
                          (BRIEF PAUSE)
                   THE CHAIRPERSON: The panel has no
    further questions for the time being, so I'll turn the
   microphone over to -- or perhaps it's a good time to
10
11
   have a break? Let's take a break then for ten (10)
   minutes, and then back here at three o'clock.
13
14
  --- Upon recessing at 2:53 p.m.
15
   --- Upon resuming at 3:05 p.m.
16
17
                  THE CHAIRPERSON: Everyone's in
18
   position, so we could continue with the proceedings.
19
   So with that I will turn the microphone over to Mr.
20
  Williams.
21
22 CROSS-EXAMINATION BY MR. BYRON WILLIAMS:
23
                  MR. BYRON WILLIAMS: Mr. Tyson, I'll
24 maybe do a little cleanup on a conversation you had
25 with the chairperson. If you go to -- first of all, if
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7033 we could go to slide 39 of TyPlan number -- Exhibit 3. 2 In the last two (2) bullets, sir, you're discussing the risks and uncertainty related to 3 Conawapa. Is that right, sir? 5 MR. RUSSELL TYSON: I state that risk and uncertainty associated with the decision between 7 2014 and 2018 regarding Conawapa should be studied. 8 MR. BYRON WILLIAMS: Okay. And -- and we see -- if -- if I went into your report itself, 9 10 would I be correct in suggesting to you that the -- the recommendation you make is that the government should 11 12 be providing the PUB legislative authority to review 13 such plans as such risks are addressed? 14 MR. RUSSELL TYSON: I made that 15 statement. The intent was to provide some type of 16 organizational structure, so that those risks can be 17 evaluated. 18 19 (BRIEF PAUSE) 20 21 MR. RUSSELL TYSON: Oh, yeah, some --22 some type of government body in which -- if you were to 23 proceed with Conawapa, the risks and uncertainties 24 identified at the hanel -- as part of the hearings to date, La Capra's findings, so on and so forth, exports

- 1 and so on and so forth, could be addressed prior to
- 2 proceeding on Conawapa.
- 3 MR. BYRON WILLIAMS: And so if I look
- 4 at the thrust of your recommendation, you're really
- 5 seeking some sort of independent review of Conawapa
- 6 prior to the decision point.
- 7 Is that correct, sir?
- 8 MR. RUSSELL TYSON: No, I would not go
- 9 that far. I'm saying before an ultimate decision is
- 10 made on Conawapa there are issues that should be
- 11 studied and addressed prior to making that decision in
- 12 2018; if that makes sense.
- I don't -- I'm not inferring that
- 14 independent review be proceeded at this time. I am
- 15 suggesting that there are risk and uncertainty
- 16 regarding the decision point at 2018 that should be
- 17 studied in a little more detail, or provided by
- 18 Manitoba Hydro to be resolved.
- Does that make sense?
- 20 MR. BYRON WILLIAMS: I think so. And -
- 21 and the thrust of your recommendation as it appears
- 22 at page 65 of your report is that you're think --
- 23 you're seeking -- suggesting a mandate for the PUB to
- 24 review such plans?
- MR. RUSSELL TYSON: Whether it be the

- 1 PUB or some other body, yes.
- MR. BYRON WILLIAMS: Okay. Thank you.
- 3 Now, just going back to slide 35 of -- of your report.
- 4 And, Mr. Chair, I was negligent. I was probably just
- 5 too hurt by the ambulance chaser comment to -- to be at
- 6 the top of my game, although I did assume Dr. Grant was
- 7 -- was referring to Mr. Hombach, so I wasn't too...
- 8 But we -- we do have an exhibit we wish
- 9 to introduce, CAC-14. And for the benefit of the court
- 10 reporter, it should have seven (7) tabs, the first
- 11 being the colourfully named, "Sucking energy out of
- 12 households," the CIBC Report, and the seventh being an
- 13 excerpt from the BC Hydro Environmental Impact
- 14 Statement.
- And, Mr. Chair, we would suggest that be
- 16 marked as CAC Exhibit 45-14.

17

- 18 --- EXHIBIT NO. CAC-45-14: Seven (7) tabs, the first
- 19 being "Sucking energy out
- 20 of households," the CIBC
- 21 Report, and the seventh
- 22 being an excerpt from the
- 23 BC Hydro Environmental
- 24 Impact Statement

- 1 CONTINUED BY MR. BYRON WILLIAMS:
- 2 MR. BYRON WILLIAMS: Sir, at slide 35
- 3 you present some information regarding customer rate
- 4 impacts.
- 5 Is that right, sir?
- 6 MR. RUSSELL TYSON: That is correct.
- 7 MR. BYRON WILLIAMS: And just so I'm
- 8 aware, this -- this analysis you're presenting would be
- 9 based upon the application prior to the significant
- 10 increases in capital rela -- expenditures related to
- 11 Keeyask and Conawapa.
- 12 Is that fair, sir?
- 13 MR. RUSSELL TYSON: Sorry, I -- could
- 14 you repeat that?
- MR. BYRON WILLIAMS: Well, let me back
- 16 up. The -- the numbers you present here in terms of
- 17 rate increases, am I correct in suggesting that they're
- 18 based upon the original business case?
- 19 MR. RUSSELL TYSON: These are directly
- 20 from the NFAT business case --
- MR. BYRON WILLIAMS: Okay.
- 22 MR. RUSSELL TYSON: -- if that's what
- 23 you're referring to.
- 24 MR. BYRON WILLIAMS: And if -- if --
- 25 and have you, sir, had the opportunity to follow the

7037 hearing and -- and consider what, if any, amendments to the Hydro business base have been presented in the course of this hearing? 3 MR. RUSSELL TYSON: I am familiar with 4 the changes to section 13 -- or Chapter 13 on the economic rent, but I am not familiar with anything 7 else. 8 9 (BRIEF PAUSE) 10 11 MR. BYRON WILLIAMS: And just so I understand, sir, are you aware that there were 13 increases in the estimated capital expenditures 14 associated with Keeyask? 15 MR. RUSSELL TYSON: Yes. 16 MR. BYRON WILLIAMS: And you're aware that there were increases in the estimated capital 17 18 expenditures associated with Conawapa? 19 MR. RUSSELL TYSON: Yes. 20 MR. BYRON WILLIAMS: To the tune of \$800 million or so? 21 22 MR. RUSSELL TYSON: Yes, I understand 23 Keeyask was 300 million. 24 MR. BYRON WILLIAMS: Okay. And you 25 were aware as well that there have been significant

PUB re NFAT 04-15-2014 7038 changes to the DSM scenarios put forward by Manitoba Hydro? 3 MR. RUSSELL TYSON: I am aware that changes have been identified. I do know -- not know what they are. 6 MR. BYRON WILLIAMS: Now, in terms of -- you referenced changes to the economic rent in Chapter 13. 9 And by that, do you mean adjustments to the calculations of Dr. Shaffer, based upon the changed 10 11 capital estimates? 12 MR. RUSSELL TYSON: I believe that is correct, yes. 13 MR. BYRON WILLIAMS: And so you've had 14 15 the opportunity to review --16 MR. RUSSELL TYSON: I have briefly 17 glanced the table that was presented. 18 MR. BYRON WILLIAMS: Okay. And if --19 perhaps if we could pull up Manitoba Hydro Exhibit 166 20 Revised. 21 22 (BRIEF PAUSE) 23

24 MR. BYRON WILLIAMS: And if we could

25 scroll down just a little bit.

7039 (BRIEF PAUSE) 1 2 3 MR. BYRON WILLIAMS: Mr. Tyson, does -does this look at -- look like some of the work of Dr. Shaffer that you're familiar with? MR. RUSSELL TYSON: I can't comment on 6 it. And this is the first time I've seen that table. 7 8 MR. BYRON WILLIAMS: Okay. Were you aware, sir, of evidence from Dr. Shaffer in the hearing that in terms of the monetized net benefit, the results 10 11 for Plan 14, Plan 6, and Plan 12 were very similar? 12 MR. RUSSELL TYSON: Yes, I believe I do recall that. 13 14 MR. BYRON WILLIAMS: And, sir, in terms 15 of that evidence did you adjust your opinion in any way 16 in response to that? 17 MR. RUSSELL TYSON: No, I did not. 18 19 (BRIEF PAUSE) 20 21 MR. BYRON WILLIAMS: And you have not explored, sir, whether the implications of expanded DSM 22 23 scenarios may benefit some plans as compared to others 24 under Dr. Shaffer's analysis? 25 MR. RUSSELL TYSON: No, I did not.

7040 MR. BYRON WILLIAMS: I wonder if we 1 could turn to page 22 of your evidence, TYP Exhibit 1. If we could scroll down. 3 5 (BRIEF PAUSE) 6 7 MR. BYRON WILLIAMS: And, sir, you'll recall during the earlier part of our discussion that we did discuss a review -- I mean, a limitation in 10 terms of your review, in terms of your full 11 understanding of the Manitoba economy and how it 12 functions? 13 MR. RUSSELL TYSON: Yes. I stated that, because I'm not familiar with the Manitoba 14 15 economy as well as the British Columbia economy, there 16 are certain assumptions we would make that we do not fully understand. 17 18 MR. BYRON WILLIAMS: And here on page 19 22, your -- in the second paragraph under Section 3.2.3.4, you're -- you're putting a big 'if' in front 21 of the expectation that most of the people working on the project will come from outside of Manitoba. 22 23 Would that be fair? 24 MR. RUSSELL TYSON: Yes. 25 MR. BYRON WILLIAMS: And if we went to

- 1 page 26 of your evidence, sir -- scrolling down,
- 2 please. Scroll down a little bit more. Right there.
- 3 You'll see the third full paragraph on
- 4 this page, being page 26 of TYP Exhibit 1, you point to
- 5 a disconnect in your view between the Statistics Canada
- 6 model estimate of all direct jobs and the Manitoba
- 7 Hydro estimate of all direct jobs.
- 8 Is that correct, sir?
- 9 MR. RUSSELL TYSON: It is a difference
- 10 based on the assumptions that are made in the models,
- 11 the change.
- MR. BYRON WILLIAMS: And you -- you go
- 13 on to suggest that the overall percentage of jobs in
- 14 Manitoba appears to be very low, correct?
- MR. RUSSELL TYSON: Correct, presumably
- 16 resulting from external employment in the province. I
- 17 reference that comment based on the fact that, on the
- 18 BC Hydro input/output model, we assume that 80 percent
- 19 of the employment would be from British Columbia as
- 20 opposed to elsewhere.
- But we do note differences in the
- 22 provincial economy in Manitoba that may suggest that
- 23 there may be a significant labour shortage in Manitoba
- 24 that would allow that balance or that proportion to be
- 25 there.

- 1 MR. BYRON WILLIAMS: Thank you. And --
- 2 and you're aware that the designated trades, including
- 3 journeypersons, are likely to be a significant element
- 4 of the Keeyask and Conawapa labour force, sir?
- 5 MR. RUSSELL TYSON: Yes. They are a
- 6 component.
- 7 MR. BYRON WILLIAMS: And for the
- 8 purposes of your analysis in this report, did you
- 9 review the percentage of journeypersons from outside of
- 10 Manitoba hired for Wuskwatim?
- MR. RUSSELL TYSON: No, I did not.
- 12 MR. BYRON WILLIAMS: I'm wondering if
- 13 we can pull up CAC Exhibit 45-7, Tab 1. And just got
- 14 the cover page. So scroll down one (1) page after Tab
- 15 1.
- 16 Sir, you see here a report marked as CAC
- 17 Exhibit 45-7 from Deloitte addressing Wuskwatim
- 18 training and employment initiatives, evaluation report,
- 19 final?
- MR. RUSSELL TYSON: Yes.
- 21 MR. BYRON WILLIAMS: And, sir, for the
- 22 purposes of your analysis in this proceeding, would
- 23 this document have been available to you prior to the
- 24 completion of your report?
- MR. RUSSELL TYSON: Yes, it would have

- 1 been available, and we did read the executive summary.
- 2 Our interpretation of the document pursuant to my
- 3 presentation and comments provided earlier that in the
- 4 development of benefit agreements with First Nations,
- 5 they are constantly evolving and developing, and that
- 6 the performance measures set forth in the initial
- 7 agreements generally never come to fruition.
- 8 However, with due diligence and with the
- 9 implementing lessons learned, we can all move towards a
- 10 more effective and efficient calculation of benefits
- 11 and jobs for the -- I note that I'm personally involved
- 12 in a \$2.3 billion project in British Columbia regarding
- 13 the building of a bridge where we did have the exact
- 14 same labour issues associated with employment for
- 15 Aboriginal groups that we had to manage throughout the
- 16 process.
- 17 THE CHAIRPERSON: I think we're missing
- 18 some of your testimony. I wonder if --
- 19 MR. RUSSELL TYSON: Oh, sorry. Again?
- 20 Okay? All right.
- 21
- 22 CONTINUED BY MR. BYRON WILLIAMS:
- 23 MR. BYRON WILLIAMS: So, sir, just so I
- 24 understand your -- your evidence, you read the
- 25 executive summary of the report, but you -- you did not

7044 read the report? 2 MR. RUSSELL TYSON: Not in entirety. 3 MR. BYRON WILLIAMS: Okay. So any analysis found in the report related to the percentage of journeypersons hired from outside of Manitoba for Wuskwatim was not considered by you? MR. RUSSELL TYSON: 7 No. MR. BYRON WILLIAMS: Now, I noticed you in the -- the crowd yesterday -- crowd may be the wrong term, but listening to the evidence of Knight Piesold 10 11 for part of their presentation, sir? 12 MR. RUSSELL TYSON: For two (2) slides, 13 or three (3) slides. 14 MR. BYRON WILLIAMS: You weren't there 15 for all the slides? 16 MR. RUSSELL TYSON: No, I was not. 17 MR. BYRON WILLIAMS: Okay. I wonder if 18 we can pull up Knight Piesold Exhibit 4, slide 27? 19 20 (BRIEF PAUSE) 21 22 MR. BYRON WILLIAMS: Sir, in -- in 23 preparing your report were you aware whether or not 24 Knight Piesold was looking at the number of hires for

the project expected inside of Manitoba as outside of

- 1 Manitoba?
- 2 MR. RUSSELL TYSON: No, I was not. And
- 3 I was not aware of this.
- 4 MR. BYRON WILLIAMS: Okay. And so I'm
- showing you an excerpt from slide 7 -- excuse me, slide
- 6 27 of KP-4, suggesting that 40 percent of overall
- 7 project workforce for Wuskwatim were out of province,
- 8 60 percent for generating station structure, and
- 9 suggesting that Keeyask demand would be greater and the
- 10 situation likely to be even worse.
- 11 And what you're telling me, if I'm
- 12 correct, sir, is that you did not have an opportunity
- 13 to review this and prepare in your evidence?
- 14 MR. RUSSELL TYSON: No, I did not
- 15 reference this.
- 16 MR. BYRON WILLIAMS: Okay. And --
- 17 MR. RUSSELL TYSON: My reference was
- 18 specific to bringing employees in from out of province
- 19 to undertake the project, and we used the Stats Can
- 20 model to look at the interprovincial trade numbers to
- 21 make comparisons.
- MR. BYRON WILLIAMS: And, sir, what I'm
- 23 asking you is in preparing your evidence, did you
- 24 consult with Knight Piesold in terms of their
- 25 expectations in terms of --

7046 MR. RUSSELL TYSON: I did not. 1 2 MR. BYRON WILLIAMS: You -- you've got to let me finish, just for the court reporter. 3 4 MR. RUSSELL TYSON: Sorry, I apologize. 5 MR. BYRON WILLIAMS: So I'll finish and then you can answer and -- you did not consult with 7 Knight Piesold in terms of their expectations of outof-province hires. 9 Would that be fair, sir? 10 MR. RUSSELL TYSON: Yes. 11 MR. BYRON WILLIAMS: Okay. I wonder if 12 we could flip back to CAC Exhibit 45-7, page 73 for a 13 moment? You can scroll up just a little bit. 14 Mr. Tyson, in your report you'll --15 you'll agree with me that -- or you'll agree that you discussed les -- lessons learned from Wuskwatim. 16 17 Would that be fair? 18 MR. RUSSELL TYSON: Yes. 19 MR. BYRON WILLIAMS: And you have a discussion in your report, we don't need to turn there, 21 but you'll accept, subject to check, at page 12, discussing workplace conditions in the construction 22 23 camp with regard to the -- the next projects associated 24 with the Preferred Development Plan. 25 Would that be fair?

- 1 MR. RUSSELL TYSON: Yes. We looked at
- 2 best practices in regards to moving Keeyask forward and
- 3 the establishment of a work camp, and the KIP project
- 4 was identified.
- 5 MR. BYRON WILLIAMS: Okay. And in
- 6 terms of your review of the Deloitte report executive
- 7 summary, would you have had occasion to review
- 8 comments, if any, in the Deloitte report regarding the
- 9 survey of workers, regarding the camp facilities at
- 10 Wuskwatim?
- MR. RUSSELL TYSON: No, I did not
- 12 review that section. If you could reference I would
- 13 appreciate that.
- 14 MR. BYRON WILLIAMS: It's -- it's --
- 15 and I don't want to be unfair to you, sir, but there's
- 16 a page here right in front of us. For example, you'll
- 17 see in the middle of the page, a -- a suggestion by
- 18 Deloitte that a -- the vast majority of workers were
- 19 actually quite laudatory about the camp facilities.
- 20 Do you see that?
- 21 MR. RUSSELL TYSON: Okay. I can read
- 22 that.
- 23 MR. BYRON WILLIAMS: Okay. Although
- 24 there are some concerns with partying, et cetera.
- 25 So that would not have been an analysis

- 1 that you reviewed in preparing your report, sir?
- MR. RUSSELL TYSON: We are aware of
- 3 issues related to that on other projects, yes.
- 4 MR. BYRON WILLIAMS: You're aware of
- 5 issues, sir, but I guess what I'm asking you is were
- 6 you aware of the suggestion by Deloitte that the vast
- 7 majority of workers were pretty laudatory about the
- 8 camp facilities?
- 9 MR. RUSSELL TYSON: We did read that
- 10 they though that the camp facilities were okay.
- MR. BYRON WILLIAMS: So 'camp was
- 12 awesome' you would equate with 'okay'?
- MR. RUSSELL TYSON: Awesome.
- 14 MR. BYRON WILLIAMS: Sir, at page 31 of
- 15 your report you reference the -- the Burntwood Nelson
- 16 Collective Bargaining Agreement.
- 17 Is that correct, sir?
- MR. RUSSELL TYSON: Yes.
- 19 MR. BYRON WILLIAMS: And if we want to
- 20 scroll down to footnote 18, and I don't know -- keep --
- 21 you highlight the fact that an important element of the
- 22 Burntwood Nelson Agreement is the employee preference.
- Would that be fair, sir?
- MR. RUSSELL TYSON: Yes.
- 25 MR. BYRON WILLIAMS: In preparing your

- 1 actual analysis would have reviewed the Burntwood
- 2 Nelson Agreement?
- 3 MR. RUSSELL TYSON: I did not review it
- 4 in its entirety. I believe I read two (2) or three (3)
- 5 pages of it to obtain the gist. And what I took out of
- 6 that was that the Aboriginal peoples who work in
- 7 northern community projects had a preference in
- 8 regarding construction projects.
- 9 MR. BYRON WILLIAMS: And I appreciate
- 10 your commentary on the preference. Would you be
- 11 familiar with the term 'named hires', which I suggest
- 12 to you means hires following exhaustion of the
- 13 preference categories under the BNA? Is that a term
- 14 you're familiar with?
- 15 MR. RUSSELL TYSON: No, I'm not.
- 16 MR. BYRON WILLIAMS: Sir, at the time
- 17 of your preparation of the report, were you aware of
- 18 any commentary in the Deloitte report, or otherwise,
- 19 expressing concerns that employers were, in effect,
- 20 sidestepping the preference requirements by claiming a
- 21 higher level or more specific skills than were
- 22 necessary for particular jobs?
- 23 MR. RUSSELL TYSON: Yes, I was aware of
- 24 that issue. That issue does occur on a number of
- 25 projects. And we've personally been involved in a

- 1 number of projects where skill sets and training has
- 2 been an issue, and contractors have subsequently used
- 3 that as a vehicle in which certain employees can be
- 4 removed from the job site.
- 5 So we are familiar with that issue. And
- 6 pursuant to early conversations -- or discussions
- 7 provided herewith, we recognize that no agreement is
- 8 perfect as they've set in place, but provided lessons
- 9 learned and best practices are implemented going
- 10 forward, all these agreements do get better over time.
- MR. BYRON WILLIAMS: Okay. And are you
- 12 familiar with the layoff clauses under Section 12.4.1.1
- 13 -- it'd be 12.4.1.2 of the BNA?
- 14 MR. RUSSELL TYSON: No, I'm not, but I
- 15 do not think that was part of my scope of work, to go
- 16 into detail regarding contractual obligations
- 17 associated with benefit agreements.
- MR. BYRON WILLIAMS: But in fairness,
- 19 sir --
- 20 MR. RUSSELL TYSON: I must have an
- 21 understanding -- I apologize for interrupting --
- MR. BYRON WILLIAMS: No, that's okay.
- 23 MR. RUSSELL TYSON: -- but I have to
- 24 have an understanding of the agreement in principle.
- MR. BYRON WILLIAMS: And you also, in

- 1 fairness, sir, would want to understand if there are
- 2 provisions in the collective agreement which may serve
- 3 to impede the achievement of -- of Aboriginal
- 4 preference.
- 5 Would that be fair?
- 6 MR. RUSSELL TYSON: That would be fair.
- 7 MR. BYRON WILLIAMS: Now, in your work
- 8 on this report did you examine whether the layoff
- 9 clauses under the sections I've named previously had
- 10 been amended?
- MR. RUSSELL TYSON: No. Pursuant to
- 12 what I've already discussed, I did not review those
- 13 clauses regarding layoffs.
- 14 MR. BYRON WILLIAMS: In your report at
- 15 pages 33 and 34, sir -- and the report I'm referencing
- 16 is TYP Exhibit 1 -- you reference the Hydro Northern
- 17 Training and Employment Initiative, or, I believe,
- 18 HNTEI, as My Learned Friends from Hydro call it.
- 19 Is that right, sir?
- MR. RUSSELL TYSON: Yes.
- 21 MR. BYRON WILLIAMS: And for the
- 22 purposes of your analysis, did you examine the Deloitte
- 23 evaluation of the training results associated with the
- 24 designated trades?
- MR. RUSSELL TYSON: No, I did not. The

- 1 fact that a -- such a program was identified and was
- 2 tied into by Manitoba Hydro was of import to me,
- 3 because it was -- it represented one (1) of the best
- 4 practices that we identified earlier on in the report
- 5 on how to optimize employment opportunities.
- 6 Operational issues and performance
- 7 measures associated with -- with the agreements between
- 8 the parties, I do not believe, is part of my scope of
- 9 work. However, I do acknowledge that issues do arise
- 10 and that maybe performance measures were not met.
- 11 However, provided both parties -- or all three (3)
- 12 parties, inclusive of First Nations, Manitoba Hydro,
- 13 and the contractor, and I -- I specifically note the
- 14 contractor, come to the table to address differences
- 15 and approaches to employment, we can move forward to
- 16 start optimizing benefits.
- 17 I have been involved in numerous
- 18 agreements with First Nations and contractors that
- 19 suggest certain employment targets be met, and in a
- 20 number of instances they cannot be met because of skill
- 21 sets and training and because of specific issues. All
- 22 I can say going forward is that provided that all
- 23 parties are agreeable to move forward and have the
- 24 mechanisms in place within those agreements to resolve
- 25 disputes, then practices are being met.

7053 And provided good, prudent measures are 1 taken, we can move forward and optimize these opportunities. That's the extent of my evaluation. 3 MR. BYRON WILLIAMS: Thank you for that answer. And just so I have the thrust of it, you were aware that HNTEI, H-N-E-T-I (sic), was in place. You did not examine, whether through the Deloitte report or otherwise, its success in achieving goals in terms of creating opportunities for the designated trades. 10 Would that be fair, sir? 11 MR. RUSSELL TYSON: That's fair. 12 MR. BYRON WILLIAMS: And accepting your 13 premise that it is important in the event that there are shortcomings in terms of meeting those objectives, 14 15 did you examine, sir, post-HNTEI efforts to enhance 16 access to the designated trades for the -- whether it's the Keeyask Cree Nation partners, specifically, or more 17 18 generally Northern and Aboriginal people, including 19 Metis people? 20 MR. RUSSELL TYSON: No, I did not. 21 22 (BRIEF PAUSE) 23 24 MR. BYRON WILLIAMS: In your assessment 25 of the socioeconomic benefits linked to the Preferred

- 1 Development Plan, sir, would you have had reference to
- 2 or access to analysis, whether found in Deloitte or
- 3 elsewhere, in terms of the percentage of hires of
- 4 Northern Aboriginal people related to the remainder of
- 5 the workforce at Wuskwatim?
- 6 MR. RUSSELL TYSON: I did not review
- 7 data in regard to that.
- MR. BYRON WILLIAMS: And, sir, would
- 9 you have reviewed data with regard to the turnover rate
- 10 of Northern Aboriginal people related to the remainder
- 11 of the workforce at Wuskwatim?
- MR. RUSSELL TYSON: I do acknowledge
- 13 that turnover issues were evident as part of the
- 14 agreement and that turnover was identified as a key
- 15 issue moving forward, and how to reduce it. As I
- 16 mentioned earlier, my current experience on similar
- 17 projects suggests that contractors have one (1) or two
- 18 (2) obligations. They have a schedule to meet and they
- 19 have something to build. Everything else in their mind
- 20 is irrelevant.
- 21 Firstly, on the other side of the fence
- 22 we have First Nations that require employment
- 23 opportunities that address specific spiritual and
- 24 cultural aspects of doing business. Sometimes they do
- 25 not mesh. And I have been in meetings where conflicts

- 1 constantly arise in regard to this. And my solution
- 2 and my recommendation as part of this report is to make
- 3 sure that the mechanisms are in place between the
- 4 parties to resolve disputes going forward.
- 5 MR. BYRON WILLIAMS: And, sir, if --
- 6 would your advice be as well, to the extent that the
- 7 panel is not satisfied that appropriate mechanisms are
- 8 put in place, for example, to provide opportunities
- 9 within the designated trades, that a more cautious or
- 10 go-slow approach might be prudent?
- 11 MR. RUSSELL TYSON: Could you ask that
- 12 question again, please?
- MR. BYRON WILLIAMS: Well, sir, you've
- 14 -- you've offered advice about the importance of
- 15 working together to correct past deficits.
- Fair enough?
- 17 MR. RUSSELL TYSON: That would be fair.
- MR. BYRON WILLIAMS: And I'm --
- 19 MR. RUSSELL TYSON: Sorry, if I may.
- MR. BYRON WILLIAMS: Yeah.
- 21 MR. RUSSELL TYSON: In context to the
- 22 agreements that are set in place between the parties on
- 23 a go -- on going forward -- forward basis. I noticed
- 24 the CAC and the AGE committees that were established to
- 25 facilitate issues like this. I'm aware that those

- 1 committees did not function as effectively as they
- 2 could.
- 3 However, I do emphasize that, provided
- 4 parties come to the table, negotiate more effectively,
- 5 and understand the tradeoffs that are required to
- 6 resolve such issues, I am sure that the performance
- 7 measures can be get met moving forward.
- 8 I did not go into detail regarding the
- 9 number of employees that were established. What I do
- 10 note as part of my assessment was that all of the
- 11 training, the linkages with the federal and provincial
- 12 agencies to support programs and develop them, are
- 13 things that we do not see very readily in the projects,
- 14 specifically the ones we saw in British Columbia.
- I note in Manitoba, this was something
- 16 that I found very interesting and very applaudable to -
- 17 to recommend as we're doing all the right things to
- 18 move it forward.
- 19 MR. BYRON WILLIAMS: So, sir, would you
- 20 agree with me that, as a necessary precondition for
- 21 maximizing the benefits from the Preferred Development
- 22 Plan, it would be important to have confidence that a
- 23 structure was in place to maximize the opportunities
- 24 for Aboriginal people and Northern Aboriginal people,
- 25 including Metis, to maximize their opportunities within

- 1 the designated trades?
- 2 MR. RUSSELL TYSON: I would agree with
- 3 that.
- 4 MR. BYRON WILLIAMS: If we could turn
- 5 to page 36 of your evidence, sir, and scroll down --
- 6 scroll down through 36, if you would, Diana, and then
- 7 onto the next page. Scroll down a bit more. Okay.
- 8 And then scroll back to the -- the top of Section
- 9 3.6.2. Thank you.
- 10 Sir, what we have here is your comments
- 11 with regard to community health in this report.
- 12 Would that be fair?
- MR. RUSSELL TYSON: Yes.
- 14 MR. BYRON WILLIAMS: Would it be fair
- 15 to say that your community health analysis percent --
- 16 presented in this report occupies about one (1) page?
- 17 MR. RUSSELL TYSON: Yes.
- 18 MR. BYRON WILLIAMS: For the purposes
- 19 of your analysis, sir, would you have looked at the
- 20 report by Lerer, L-E-R-E-R, or -- and Scudder, S-C-U-D-
- 21 D-E-R, 'Health Impacts of Large Dams', found in Impar -
- 22 Environmental Impact Assessment Review?
- 23 MR. RUSSELL TYSON: No, I did not
- 24 review that report. As I mentioned in the PowerPoint
- 25 presentation, there were Sections 3, 4, and 5 of the

- 1 EIS that I referred to in regard to community health
- 2 and health.
- 3 MR. BYRON WILLIAMS: Okay. And, sir,
- 4 for the purposes of your report, would you have
- 5 referred to the work of Ross et al, 'Income Equal' --
- 6 'Inequality as a Determinant of Health in Healthier
- 7 Societies'?
- 8 MR. RUSSELL TYSON: No, I did not
- 9 review that report.
- 10 MR. BYRON WILLIAMS: In your report --
- 11 oh, sorry. Did I interrupt you?
- 12 MR. RUSSELL TYSON: No. Go ahead.
- MR. BYRON WILLIAMS: We're doing so
- 14 well now, Mr. Tyson. In your report at page 36, you
- 15 make the point that health is shaped by a variety of
- 16 factors including the social and economic environment,
- 17 the physical environment, and a person's individual
- 18 characteristics and behaviours, agreed?
- MR. RUSSELL TYSON: Agreed.
- 20 MR. BYRON WILLIAMS: And would you,
- 21 sir, agree with the proposition that the relative gap
- 22 between the highest and lowest income earners in any
- 23 given community -- i.e., income disparity -- heavily
- 24 influences health outcomes?
- MR. RUSSELL TYSON: I would agree.

- 1 MR. BYRON WILLIAMS: And so you would
- 2 agree, sir, that when it comes to health outcomes, it
- 3 cannot be said with certainty that a rising tide lifts
- 4 all boats?
- 5 MR. RUSSELL TYSON: I would agree. I
- 6 would like to preface this that Sections 3, 4, and 5 of
- 7 the environmental impact statement do talk
- 8 comprehensively about the Cree world view on things and
- 9 how everything is interconnected. The -- the agreement
- 10 and the reports therein prepared by the partnership
- 11 Cree Nations exhibit the partnerships that have been
- 12 established with Manitoba Hydro to address this issue.
- MR. BYRON WILLIAMS: Thank you. Now,
- 14 you offer some commentary on the Keeyask EIS when it
- 15 comes to the assessment of health effects.
- Would that be fair?
- 17 MR. RUSSELL TYSON: Yes. If I may
- 18 clarify. As part of the EIS and going back towards the
- 19 requirements of the Canadian Environmental Assessment
- 20 Act, VECs -- value environmental components -- are
- 21 identified at the start of all these projects and are
- 22 studied in detail as part of the process. That
- 23 includes involvement with third parties to identify the
- 24 issues and includes involvement of those parties in
- 25 addressing the impacts and the potential mitigation, as

- 1 well addressing residual effects associated with those
- 2 effects.
- 3 This is standard operating protocol
- 4 associated with the Canadian Environmental Assessment
- 5 Act and formats the foundation of our assessment
- 6 regarding whether or not prudent best practices have
- 7 been implemented in community health assessment.
- 8 MR. BYRON WILLIAMS: Sir, for the
- 9 purposes of your analysis of health effects, would it
- 10 be accurate to suggest that you did not address the
- 11 question of whether projects of this size tend to
- 12 increase income disparities within communities?
- MR. RUSSELL TYSON: No, I did not look
- 14 at that.
- MR. BYRON WILLIAMS: If we can turn to
- 16 page 41 of your evidence. You present here, sir, your
- 17 high-level review of the impact of increased energy
- 18 costs on consumers and their spending patterns.
- 19 Would that be fair?
- 20 MR. RUSSELL TYSON: That is fair.
- 21 Thank you for noting 'high-level review'.
- MR. BYRON WILLIAMS: And, of course,
- 23 the reason you and I have noted it is because you did
- 24 not conduct any estimate of the impacts on consumers of
- 25 the rate increases?

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- 1 MR. RUSSELL TYSON: No, we did not.
- 2 What we found, if I could clarify this for the panel,
- 3 as -- as part of our literature review we looked at
- 4 reports that were available to us to try and discern
- 5 what the issues were. We found that there was limited
- 6 quantitative but more qualitative evidence suggesting
- 7 impacts.
- 8 That led us to the conclusion that low
- 9 income and the poor were the most affected. We then
- 10 said -- asked the question: What does one do to
- 11 address this issue? And that's where energy efficiency
- 12 programs came from, and that's what we identified in
- 13 context to our review.
- 14 The magnitude we did not comment on.
- 15 And I would not comment on the magnitude. Let alone
- 16 the summary and the concept here is that we acknowledge
- 17 that low income and the poor are most affected and all
- 18 the policies should be in place to address that issue.
- 19 MR. BYRON WILLIAMS: Now, sir, if we
- 20 went -- if -- if you would go with me to the cover page
- 21 for Exhibit CAC-45-14.
- 22 You'll -- you'll see here reference to
- 23 excerpts from four (4) of the studies that you did look
- 24 -- look at, sir?
- MR. RUSSELL TYSON: Yes.

7062 MR. BYRON WILLIAMS: One (1) of them is 1 the CIB report by Tal from 2011, correct? 3 MR. RUSSELL TYSON: Yes. Sorry. MR. BYRON WILLIAMS: And another is the 4 Pan-African Investment and Research Services report 6 from 2011, agreed? 7 MR. RUSSELL TYSON: Yes. MR. BYRON WILLIAMS: Another is from 9 the curiously named American Coalition For Clean Coal from February of 2012. 10 11 Is that right, sir? 12 MR. RUSSELL TYSON: That is correct. 13 MR. BYRON WILLIAMS: And another one is 14 from the Scotiabank. Fair enough? Yes? MR. RUSSELL TYSON: Fair enough. 15 16 MR. BYRON WILLIAMS: And of the four 17 (4) reports that I've presented here, sir, or that you 18 have examined, would it be fair to say that the one (1) 19 report that attempts to examine the relative impacts on the economy of significant rate ince -- increases as 21 compared to the impacts of capital expenditures would 22 be the South African study? 23 MR. RUSSELL TYSON: Yes, you would be 24 correct. However, put in context, it is South African 25 study. There is an analogy of a third-world country

- 1 developing hydroelectric facilities for future economic
- 2 development, so it's a little different in context
- 3 compared to the established first-world hydroelectric
- 4 developments that we see here.
- 5 MR. BYRON WILLIAMS: And we'll get to
- 6 those caveats in -- in a second, but that's -- in terms
- 7 of the thrust of your analysis, sir, I think you've
- 8 aptly stated it that it's your view that the -- those
- 9 on fixed incomes and low incomes will be the hardest
- 10 hit --
- 11 MR. RUSSELL TYSON: That is correct,
- 12 yes.
- MR. BYRON WILLIAMS: You've got to let
- 14 me finish, sorry.
- MR. RUSSELL TYSON: Oh, sorry, I
- 16 thought you had.
- 17 MR. BYRON WILLIAMS: Okay. Let's try
- 18 it again. We've agreed -- or you -- your -- your
- 19 position is that those most hard hit will be the poor
- 20 and those on fixed incomes, correct?
- MR. RUSSELL TYSON: Correct.
- MR. BYRON WILLIAMS: And you would note
- 23 that the overall impact in the retail sector will
- 24 depend on a variety of factors including income
- 25 distribution in the community, energy cost,

- 1 consumption, and needs.
- 2 Would that be fair?
- 3 MR. RUSSELL TYSON: That is fair.
- 4 MR. BYRON WILLIAMS: And a key
- 5 mechanism that you see as a measure to mitigate or
- 6 alleviate the impact of rapid rate increases would be
- 7 energy efficiency, correct?
- 8 MR. RUSSELL TYSON: Energy efficiency
- 9 ini -- initiatives, yes. Presumably, Power Smart
- 10 programs that are available to the public. I also note
- 11 in our analysis that that it is up to both parties,
- 12 both the public as well as Manitoba Hydro, to provide
- 13 for and implement such programs. One (1) of the
- 14 disconnects that we've had and we see in British
- 15 Columbia is eve -- even though the programs are
- 16 available, they're not fully utilized.
- 17 MR. BYRON WILLIAMS: Now, in preparing
- 18 your analysis, sir, on this specific issue, would you
- 19 have had the opportunity to conduct any interviews of
- 20 low-income persons in Manitoba in terms of any
- 21 challenges they may be having in accessing energy
- 22 efficiency programming with Manitoba Hydro?
- 23 MR. RUSSELL TYSON: No, I did not
- 24 interview any low-income Aboriginal groups as part of
- 25 this.

- 1 MR. BYRON WILLIAMS: And in preparing
- 2 this analysis, sir, would you have reviewed any
- 3 evidence offered by Mr. Philippe Dunsky filed in past
- 4 general rate applications before this Public Utilities
- 5 Board?
- 6 MR. RUSSELL TYSON: Oh, I have not
- 7 reviewed those.
- 8 MR. BYRON WILLIAMS: So you would not
- 9 be in a position to comment in terms of whether or not
- 10 he has filed evidence in the past relating to barriers
- 11 to implementing low income programming in this
- 12 province?
- MR. RUSSELL TYSON: I would not be
- 14 aware of them, but I do know and acknowledge barriers
- 15 do exist.
- 16 MR. BYRON WILLIAMS: And, sir, in your
- 17 analysis for this report, would you have had the
- 18 opportunity to look at Public Utility Board Order 5/'12
- 19 and any analysis therein relating to challenges in
- 20 supporting low-income persons in terms of energy
- 21 efficiency or income support programs?
- MR. RUSSELL TYSON: No, I did not
- 23 review that information.
- 24 MR. BYRON WILLIAMS: And would it be
- 25 fair to say that you also did not review Public Utility

- 1 Board Order 43/'13?
- 2 MR. RUSSELL TYSON: Yes.
- 3 MR. BYRON WILLIAMS: Okay. Now, just
- 4 turning for a moment to CAC-45-14 and page 35, sir.
- 5 You'll agree with me that this is a -- a neat little
- 6 report from the Scotiabank Group, the Global Economics
- 7 Research?
- MR. RUSSELL TYSON: Yes.
- 9 MR. BYRON WILLIAMS: And I quess we
- 10 should premise -- or caveat this discussion to say that
- 11 a fair bit of the Scotiabank analysis is in the context
- 12 of high energy costs, in terms of gasoline.
- Would that be fair, sir?
- 14 MR. RUSSELL TYSON: That would be fair.
- 15 And as part of our benchmark, we noted a lot of the
- 16 review that we undertook was specifically related to
- 17 gasoline.
- 18 MR. BYRON WILLIAMS: The message from
- 19 Scotiabank, we can see it in the first full paragraph,
- 20 is that higher energy costs were taking a toll on
- 21 consumer confi -- confidence, purchasing power, and
- 22 efficiency, agreed?
- MR. RUSSELL TYSON: Agreed.
- 24 MR. BYRON WILLIAMS: And it would be
- 25 fair to say that in the Scotiabank analysis, high

- 1 energy costs have dampened spending on other less
- 2 discretionary purchases.
- 3 Would that be fair?
- 4 MR. RUSSELL TYSON: Yes.
- 5 MR. BYRON WILLIAMS: Now, I want to
- 6 take you to the Eskom report, or the excerpt from it,
- 7 which is found at CAC-45-14, page 5.
- And, sir, when I used the term 'Eskom',
- 9 you'll understand that I'm referring to the work in
- 10 South Africa looking at the impact of electricity price
- 11 increases and Eskom's six (6) year capital investment?
- MR. RUSSELL TYSON: Yes.
- MR. BYRON WILLIAMS: And just for the
- 14 purposes of context, and you adverted to this before,
- 15 sir, this report was authored at a time when it was
- 16 argued that there -- there was a -- a need to expand
- 17 infrastructure in South Africa to set the foundation
- 18 for broad, sustainable growth.
- MR. RUSSELL TYSON: Yes.
- 20 MR. BYRON WILLIAMS: Would it be fair
- 21 to say that one (1) of the research questions posed in
- 22 this report which you cite is: What are the impacts on
- 23 the economy of price increases?
- MR. RUSSELL TYSON: Yes.
- MR. BYRON WILLIAMS: And would it also

- 1 be fair to say that an additional research question
- 2 posed was: What sectors of industry and what persons
- 3 were hardest hit by the price increases?
- 4 MR. RUSSELL TYSON: Yes.
- 5 MR. BYRON WILLIAMS: And then another
- 6 important research question posed, recognizing the
- 7 heavy capital expenditures, was: What is the impact on
- 8 the economy of these capital investments?
- 9 MR. RUSSELL TYSON: Yes.
- 10 MR. BYRON WILLIAMS: And you've made
- 11 the point, sir, that in examining these results, we
- 12 should be very aware of the distinct contextual
- 13 realities of -- of South Africa.
- 14 MR. RUSSELL TYSON: Correct.
- MR. BYRON WILLIAMS: If we could just
- 16 for a moment, let's turn to Table 2 of that report,
- 17 which we can find at page 15 marked in the bottom
- 18 right-hand corner.
- 19 And, Mr. Tyson, you'll understand that
- 20 I've only put in the excerpt from this report and not
- 21 the entire report, which is in excess of a hundred
- 22 (100) pages?
- MR. RUSSELL TYSON: Yes.
- 24 MR. BYRON WILLIAMS: And what -- what
- 25 Table 2 presents are the estimates of the eco --

7069 economy-wide impact of electricity price hikes based on a couple -- a number of scenarios. Would that be fair? 3 MR. RUSSELL TYSON: Yes. 5 MR. BYRON WILLIAMS: And I will not torture you or I, sir, with -- with walking through 7 those tables, but I just want the panel to be aware that they're there. And if we turn to the next page, we'll see -- if we can scroll down a bit with Table 3 -- that they present estimates in terms of the economy-10 11 wide impacts of an increase in -- in the capital 12 expenditures of the state-owned utility in question. 13 Is that correct, sir? 14 MR. RUSSELL TYSON: Yes. 15 MR. BYRON WILLIAMS: So in essence, what this report attempts to do is to assess both the 16 17 effects on the economy of increased prices as com -- as 18 compared to the effects on the economy of increased 19 capital investment. 20 Would that be fair? 21 MR. RUSSELL TYSON: Yes, in relation to 22 the contributions to the GDP growth. What I took out 23 of this report is that there are effects on both sides.

- 24 In South Africa's circumstance, the investment in
- hydroelectric power does have a contribution to the

7070 GDP. 2 However, I also discount this report in context to the economic environment in which South 3 Africa exists because the socioeconomic characteristics of the majority of residents in there is a lot different and totally erroneous to what's happening in 7 a developed country such as Canada. 8 But it is acknowledged that certain 9 areas are impacted, as I've mentioned in my report. 10 MR. BYRON WILLIAMS: And if we turn to 11 the next page, being page 7... 12 13 (BRIEF PAUSE) 14 15 MR. SVEN HOMBACH: Sorry for the 16 interruption, Mr. Williams, but it looks like we've now 17 resolved the issue. 18 19 (BRIEF PAUSE) 20 CONTINUED BY MR. BYRON WILLIAMS: 21 22 MR. BYRON WILLIAMS: If we just focus 23 on the conclusions of this analysis, and recognizing 24 your -- your context, in essence, first of all, the electricity pricing impact analysis suggested negative

- 1 implications on the macro and sectoral economy.
- 2 Fair enough?
- 3 MR. RUSSELL TYSON: Fair enough.
- 4 MR. BYRON WILLIAMS: Secondly though,
- 5 there were positive implications on the economy related
- 6 to the six (6) year capital investment, agreed?
- 7 MR. RUSSELL TYSON: Agreed. In -- in
- 8 the opinion of the authors of this report, the
- 9 magnitude of the price impacts on major variables in
- 10 the negative way was found to be higher than those of
- 11 the capital expenditure impacts.
- Would that be fair?
- 13 MR. RUSSELL TYSON: That's what it
- 14 states.
- MR. BYRON WILLIAMS: And then, of
- 16 course, we do have the context as well of the social
- 17 need of -- of developing infrastructure in this
- 18 particular jurisdiction?
- MR. RUSSELL TYSON: Yes.
- 20 MR. BYRON WILLIAMS: If we could turn
- 21 to page 62 of CAC Exhibit 45-14 marked in the bottom
- 22 right-hand corner. Sir, this document will look
- 23 familiar to you, being a newsletter associated with the
- 24 project on the Upper Pitt.
- Would that be fair?

PUB re NFAT 04-15-2014 7072 1 MR. RUSSELL TYSON: Yes, that is correct. 3 MR. BYRON WILLIAMS: And you heard me joking earlier about using the nomenclature of clean coal. You remember that? 6 MR. RUSSELL TYSON: Yes, I do. MR. BYRON WILLIAMS: I see in the 7 bottom -- if we could scroll down to the bottom. On the bottom right-hand side you provide a definition -or a description of what you consider to be green 10 11 energy, sir? 12 MR. RUSSELL TYSON: That is a 13 definition provided by Run of River Power. I was a consultant to Run of River Power and cannot talk about 14 15 where they sourced that. 16 MR. BYRON WILLIAMS: Okay. So you played no role in the development of this document? 17

- 18 MR. RUSSELL TYSON: I assisted in its
- 19 preparation, but the final authorization was made by
- their corporate head office. This is not my document.
- 21 MR. BYRON WILLIAMS: And we'll parse
- 22 that in just a second, sir. But in the Run of River
- 23 document they distinguish between Run of River projects
- 24 and large scale hydro projects.
- 25 Is -- would that be fair, sir?

- 1 MR. RUSSELL TYSON: Yes, it would be
- 2 fair. And for the panel's edification, in BC, as noted
- 3 earlier, we do have BC Hydro, which has the major dams.
- 4 And we also have a series of smaller independent power
- 5 producers that secure contracts with BC Hydro to
- 6 produce power at smaller megawatts, generally, 50
- 7 megawatts and below.
- 8 MR. BYRON WILLIAMS: And in this
- 9 document, Run of River argues that green projects can
- 10 be distinguished from large scale hydro projects in
- 11 that they do not require dams for water storage,
- 12 thereby eliminating the environmental impacts
- 13 associated with dams?
- 14 MR. RUSSELL TYSON: As a matter of
- 15 clarification, smaller headponds are required for these
- 16 projects that are not the size of reservoir headponds;
- 17 they're a lot smaller. And a result of that, the
- 18 industry has taken a position that these headponds are
- 19 less environmentally damaging than larger reservoir
- 20 projects.
- 21 MR. BYRON WILLIAMS: And just so I
- 22 understand, sir -- and if you're uncomfortable
- 23 answering this question you'll let me know -- do you
- 24 endorse this definition?
- MR. RUSSELL TYSON: No, I don't endorse

- 1 the definition, nor can I provide one. I do support
- 2 renewable energy in all its forms.
- 3 MR. BYRON WILLIAMS: Okay. Now, I note
- 4 -- we don't need to turn there, and -- but when you
- 5 discuss Site C in British Columbia you use the
- 6 adjective 'clean energy'.
- 7 Would that be fair, sir?
- 8 MR. RUSSELL TYSON: That is correct.
- 9 MR. BYRON WILLIAMS: It would be
- 10 accurate, sir, to say that, by its own admission, BC
- 11 Hydro would accept that there are significant residual
- 12 effects associated with Site C?
- 13 MR. RUSSELL TYSON: Residual effects
- 14 have been identified as part of the environmental
- 15 impact Assessment, yes.
- 16 MR. BYRON WILLIAMS: Significant ones,
- 17 sir?
- 18 MR. RUSSELL TYSON: There are
- 19 significant effects. The panel must appreciate that I
- 20 did not write the entire Environmental Impact
- 21 Statement. I wrote a number of sections towards that,
- 22 namely navigation and aviation. So I'm not an expert
- 23 to comment on any other of the areas that are
- 24 associated in that report, although I am familiar with
- 25 the authors and what was inputted into those reports.

7075 1 MR. BYRON WILLIAMS: Sir, what I'm interested -- oh. 3 MR. RUSSELL TYSON: Sorry. MR. BYRON WILLIAMS: Sir, what I'm interested in is the adjective 'clean'. And in your view it is appropriate -- let me back up. You would 7 agree hydro is renewable? 8 MR. RUSSELL TYSON: Yes. 9 MR. BYRON WILLIAMS: In your view, 10 notwithstanding the identified significant residual 11 effects, you believe it's appropriate to use the 12 adjective 'clean'? MR. RUSSELL TYSON: I would believe so. 13 14 But I don't make the definition, nor the law regarding 15 the definitions. 16 17 (BRIEF PAUSE) 18 19 MR. BYRON WILLIAMS: Sir, again, I don't think we need to go there, but in your evidence 21 you do discuss the socioeconomic criteria employed by 22 Manitoba Hydro in its NFAT analysis? If you need a 23 reference, it is page 15. 24 MR. RUSSELL TYSON: Okay. 25 MR. BYRON WILLIAMS: You -- you can

7076 check there, just --2 MR. RUSSELL TYSON: I would like to just reference it for my own edification, please. 3 4 MR. BYRON WILLIAMS: Yep. 5 6 (BRIEF PAUSE) 7 MR. MICHAEL WEINSTEIN: Page 5-0, Mr. Williams? 9 10 MR. BYRON WILLIAMS: Page 15. 11 MR. MICHAEL WEINSTEIN: One-five (15). 12 Thank you. 13 14 CONTINUED BY MR. BYRON WILLIAMS: 15 MR. BYRON WILLIAMS: Sir, you make a reference in the second paragraph to the socioeconomic 17 criteria of Manitoba Hydro. 18 MR. RUSSELL TYSON: Oh, okay. Now that 19 it's put in context, yes. 20 MR. BYRON WILLIAMS: Okay. 21 MR. RUSSELL TYSON: As part of the 22 Appendix 9.1, fifteen (15) development plans were 23 identified and they were evaluated based on a series of 24 socioeconomic criteria, yeah. 25 MR. BYRON WILLIAMS: And at page 50 and

- 1 51 of your evidence you offer some discussion of the
- 2 multiple account benefit analysis, agreed?
- MR. RUSSELL TYSON: Yes.
- 4 MR. BYRON WILLIAMS: In looking at the
- multiple account benefit analysis and the comparison of
- 6 the plans, sir, did you address your mind to whether
- 7 the different portfolios had been optimized to maximize
- 8 their socioeconomic benefits?
- 9 MR. RUSSELL TYSON: No, I did not. I
- 10 valued the five (5) different alternative scenarios.
- MR. BYRON WILLIAMS: So -- so you took
- 12 them as -- as Hydro gave them to Dr. Shaffer and as he
- 13 --
- 14 MR. RUSSELL TYSON: Evaluated as a
- 15 result of that. I do clarify -- or I would like to
- 16 clarify that based on our modelling, based on the
- 17 economic impact assessment, we know that hydro electric
- 18 projects do generate the greatest economic benefit in
- 19 terms of jobs, DDP, so on and so forth.
- 20 MR. BYRON WILLIAMS: Sir, you did not
- 21 explore, for example, how the competing portfolios
- 22 might have been optimized to provide additional
- 23 benefits to Aboriginal communities that are affected by
- 24 the Hydro project, but are not part of the Keeyask?
- MR. RUSSELL TYSON: No, I did not, and

- 1 I don't believe that's part of my scope of work. I
- 2 eval -- I think my scope of work specifically states,
- 3 evaluate five (5) scenarios.
- 4 MR. BYRON WILLIAMS: Okay. And I'm
- 5 going to gild the lily here for a moment, sir.
- 6 So you would not have looked at, for
- 7 example, optimizing the competing portfolios by adding
- 8 DSM energy efficiency investments into remote First
- 9 Nation communities?
- 10 MR. RUSSELL TYSON: No, I did not, and
- 11 nor was that part of my scope of work. Again, we have
- 12 to be clear that there was limited opportunities to do
- 13 that and nor was it part of the scope of work that was
- 14 identified.
- I would imagine the experts that have
- 16 provided witness here could ask -- answer those
- 17 questions. I cannot.
- 18 MR. BYRON WILLIAMS: Okay. If we can
- 19 quickly refer -- turn to the transcript of March 27th,
- 20 page 4205.
- 21
- 22 (BRIEF PAUSE)
- 23
- MR. BYRON WILLIAMS: And Mr. Tyson,
- 25 I'll give you a moment to -- to review it, and if

7079 you're not familiar with it and you're uncomfortable, we can pro -- we can move on. 3 But just take a moment to look at that -- that reference if you would. 5 6 (BRIEF PAUSE) MR. BYRON WILLIAMS: Sir, you -- you'll see, starting at line 3 and finishing at line 14, a discussion between myself and Ms. Kidd-Hantscher from 10 Manitoba Hydro in terms of arrangements for the 11 Nisichawayasihk Cree Nation to receive a -- a certain annual amount in water rentals? 13 14 MR. RUSSELL TYSON: Yes. 15 MR. BYRON WILLIAMS: Were you aware of 16 that arrangement in -- in performing any of your analysis? 17 18 MR. RUSSELL TYSON: No, I was not. 19 MR. BYRON WILLIAMS: Okay. If we can scroll down farther on the page, you'll see as well a 21 reference to preliminary arrangements for the Keeyask 22 Cree Nations to perhaps receive water rentals from the 23 province. 24 Do you see that reference, sir? 25 MR. RUSSELL TYSON: Yes.

- 1 MR. BYRON WILLIAMS: And were you
- 2 familiar with that in -- in conducting your analysis?
- 3 MR. RUSSELL TYSON: No, I was not. I
- 4 note that in BC, water rentals are an issue and First
- 5 Nations have approached the Province of British
- 6 Columbia to suggest that some of the water rentals
- 7 derived from these projects should be provided to local
- 8 First Nations.
- 9 MR. BYRON WILLIAMS: Would I be
- 10 correct, sir, in suggesting to you that none of the
- 11 portfolios analyzed looked at the -- the idea of
- 12 optimizing benefits for other First Nations than the
- 13 NCN and KCN in terms of using water rentals as a way to
- 14 mechanise -- optimize those portfolios, to your
- 15 knowledge?
- MR. RUSSELL TYSON: Not to my
- 17 knowledge.
- 18 MR. BYRON WILLIAMS: Just a couple last
- 19 questions about your high level review of approaches in
- 20 other jurisdictions.
- 21 Perhaps we could turn to page 68? And
- 22 at -- scrolling down to the bottom of that page, sir,
- 23 you make reference to the Lower Churchill Project
- 24 Impacts and Benefits Agreement.
- 25 Am I correct?

- 1 MR. RUSSELL TYSON: Yes.
- 2 MR. BYRON WILLIAMS: And you identify
- 3 that one (1) of the financial benefits for the -- the
- 4 First Nation -- or, excuse me -- Innu quest --
- 5 community in question is 5 percent of net project
- 6 revenue.
- 7 Am I right, sir?
- 8 MR. RUSSELL TYSON: Yes.
- 9 MR. BYRON WILLIAM: Just so I
- 10 understand, is that particular community obliged to
- 11 make an investment as a -- an equity investment in the
- 12 project to receive those benefits?
- MR. RUSSELL TYSON: That I am not sure
- 14 of. I guess the word is 'undertaking' if you want that
- 15 sorted out. I'd have to find that out.
- 16 MR. BYRON WILLIAMS: Yeah. I -- I
- 17 wonder if by way of Undertaking you could provide
- 18 information in terms of whether the impact benefits
- 19 agreement providing for a 5 percent share of net
- 20 project revenue is -- whether a pre-condition for it is
- 21 an equity investment in the project, or whether it's --
- 22 there isn't?
- 23 MR. MICHAEL WEINSTEIN: Mr. Williams,
- 24 Mr. Tyson advises me that he is maybe unlikely to be
- 25 able to get his hands on that agreement. So we can

- 1 give the undertaking subject to Mr. Tyson's ability to
- 2 complete the undertaking, but I -- I don't think he can
- 3 firmly commit to being able to follow through on that
- 4 undertaking.
- 5 MR. BYRON WILLIAMS: So that's
- 6 acceptable from our client's perspective. And for the
- 7 reporter, subject to the ability to lay hands upon the
- 8 impacts and benefits agreement, my understanding that
- 9 counsel for TyPlan is -- is agreeing that they will
- 10 examine whether the financial benefits associated with
- 11 the Lower Churchill Projects impacts and benefits
- 12 agreement have, as a pre-condition, a equity investment
- 13 in the project.
- 14 MR. MICHAEL WEINSTEIN: To be candid,
- 15 Mr. Williams, I think Mr. Tyson may have provided the
- 16 word 'undertaking' without considering that he doesn't
- 17 expect to be able to acquire this agreement.
- So I don't know that there's any value
- 19 in giving the undertaking, because he doesn't expect to
- 20 be able to fulfill it.

21

22 (BRIEF PAUSE)

- 24 MR. BYRON WILLIAMS: Sir, would it be
- 25 fair to say that in undertaking this analysis, you did

25

project was required?

7083 not explore whether there was an equity investment tied to the receipt of the 5 percent of net project revenue? 3 MR. RUSSELL TYSON: That would be fair. MR. BYRON WILLIAMS: Sir, at page 71 --5 THE CHAIRPERSON: So the record should definitely indicate that there is no undertaking. 7 MR. BYRON WILLIAMS: Undertaking is withdrawn. I apolo -- yes. 9 THE CHAIRPERSON: Okay, thank you. 10 MR. BYRON WILLIAMS: At page -- excuse me -- 73 of your report, scrolling down to the bottom 11 12 of the page, sir, you make reference to the -- an 13 agreement between the Quebec government and the Grand 14 Council of the Crees, being the Peace of the Braves. 15 Is that fair, sir? 16 MR. RUSSELL TYSON: Yes. 17 MR. BYRON WILLIAMS: And it would be 18 accurate to say that there are certain benefits flowing 19 to the Cree people as a result of the Peace of the 20 Braves. MR. RUSSELL TYSON: 21 Yes. 22 MR. BYRON WILLIAMS: And, sir, in 23 examining the Peace of the Braves, did you address your

mind to whether or not a equity investment in the

- 1 MR. RUSSELL TYSON: No, I did not. The
- 2 intent for our review was to identify whether or not
- 3 high level agreements had been put in place with the
- 4 various Cree Nations and whether or not specific
- 5 benefit agreements had been identified as part of the -
- 6 part of the package moving forward to compare those
- 7 with what's happening with Manitoba Hydro.
- 8 MR. BYRON WILLIAMS: So if I were to
- 9 suggest to you that the Peace of the Braves does not
- 10 require an equity investment, you would not be in a
- 11 position to --
- 12 MR. RUSSELL TYSON: Not in a position
- 13 to comment.
- 14 MR. BYRON WILLIAMS: -- you would not
- 15 be in a position to respond, agreed?
- 16 MR. RUSSELL TYSON: Sorry, I apologize.
- 17 I interrupted again.
- 18 MR. BYRON WILLIAMS: But the answer
- 19 was: You would not be in a position to respond.
- 20 MR. RUSSELL TYSON: That's correct.
- 21 MR. BYRON WILLIAMS: Mr. Chair, I would
- 22 note that there were some Information Requests posed by
- 23 CAC of -- of TyPlan that we have not received. I don't
- 24 expect that we would have any questions flowing from
- 25 those Information Requests.

- 2 scrubbed or sanitized as we speak, but I am prepared to
- 3 close my cross-examination subject to something arising
- 4 in those Information Request that requires follow-up,
- 5 if that's the will of the Board.
- 6 THE CHAIRPERSON: That's an appropriate
- 7 approach. Thank you.
- 8 MR. BYRON WILLIAMS: And, Mr. Tyson, I
- 9 thank you for your time.
- 10 MR. RUSSELL TYSON: Thank you.
- MR. SVEN HOMBACH: Mr. Chairman, I note
- 12 it's a quarter past 4:00. We are a little bit behind
- 13 schedule since the qualification process took a little
- 14 bit longer than anticipated.
- That said, I've canvassed counsel. The
- 16 CSI session originally scheduled for tomorrow for an
- 17 hour won't have to take place. If it's acceptable to
- 18 the panel and lawyers, I would suggest that perhaps we
- 19 proceed till five o'clock today. That should allow Mr.
- 20 Hacault to finish, and we should be able to go through
- 21 the remaining parties tomorrow.
- THE CHAIRPERSON: Yes, I canvassed the
- 23 panel beforehand, and we're prepared to sit as long as
- 24 we have to to make sure that we stay on schedule.
- So Me. Hacault, s'il vous plait.

7086 MR. ANTOINE HACAULT: Merci, M. President. 3 CROSS-EXAMINATION BY MR. ANTOINE HACAULT: 5 MR. ANTOINE HACAULT: Mr. Tyson, my name's Antoine Hacault. I represent the Manitoba Power Industrial Users Group, a group of ten (10) companies 7 that are significant users of power in this province. We also have consulted various chambers of commerce with respect to their concerns or -- or issues with --10 11 on this particular application. 12 So I have some pretty specific areas 13 that I'd like to canvass with you. The first one is 14 turning your attention to page 53 of your report, which 15 is marked as Exhibit 1. It relates to the government account. Five three (53). 16 17 And I'd like to draw your attention to 18 the first two (2) paragraphs under the heading 5.2.3., 19 Manitoba Government. In that paragraph, you indicate: 20 "This account assesses the net 21 benefit of cost (incremental net 22 revenue) of the different plans to 23 the Manitoba government (ultimately 24 the taxpayer). The key assumption 25 under this account is to remove tax

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1	impacts that do not constitute
2	incremental net revenues to the
3	government."
4	Then you continue:
5	"The account identifies only direct
6	incremental taxes and fees paid by
7	Manitoba Hydro net of incremental
8	government costs or risks."
9	And in the next paragraph, you identify
10	a couple of the payments that would fall in this
11	category. At least that's how I understand the
12	paragraph.
13	You identify capital tax firstly,
14	correct?
15	MR. RUSSELL TYSON: Yes, capital taxes.
16	MR. ANTOINE HACAULT: The next one that
17	you identify as net benefit to the Province of Manitoba
18	is water rentals, correct?
19	MR. RUSSELL TYSON: Correct.
20	MR. ANTOINE HACAULT: And finally,
21	there's other ones, but the next one in line is the
22	debt guarantee fee, correct?
23	MR. RUSSELL TYSON: Correct.
24	MR. ANTOINE HACAULT: The that was
25	just deal because there's some different views in

- 1 this hearing as to whether or not that's a -- a net
- 2 benefit to the government. So that's why I just wanted
- 3 to confirm that that was your intent.
- 4 And it continues to be your opinion
- 5 today, sir?
- 6 MR. RUSSELL TYSON: Yeah. The major
- 7 difference is just -- from my perspective, the
- 8 differences in the plans resides in the water rentals
- 9 as well as the capital taxes.
- 10 MR. ANTOINE HACAULT: Okay. Thank you.
- 11 The next subject that I want to deal with -- and I'll
- 12 deal with it in the context of a couple statements, an
- 13 analysis made in your report, sir. In your report,
- 14 with respect to an electricity rate impacts, as I read
- 15 your report you focussed largely on the residential
- 16 sector.
- 17 Is that correct?
- 18 MR. RUSSELL TYSON: Yes, I did.
- 19 MR. ANTOINE HACAULT: And there's been
- 20 various slides put to this panel. One (1) in the
- 21 financial panel was that the residential sector
- 22 represents about 28 percent of the revenue, and the
- 23 commercial and industrial sector represents about 40
- 24 percent of the revenue.
- You may not have been aware of that, but

- 1 are you willing --
- 2 MR. RUSSELL TYSON: I was.
- 3 MR. ANTOINE HACAULT: -- to go along
- 4 with that?
- 5 MR. RUSSELL TYSON: I was aware of
- 6 that, yes.
- 7 MR. ANTOINE HACAULT: Okay. So, Mr.
- 8 Williams, who was speaking to you earlier, referenced
- 9 the Pan-African study. But before I get into that, in
- 10 your report at the beginning, when you discuss the
- 11 various matters that were in the scope of your review,
- 12 one (1) of the things that you mention was a sectorial
- 13 analysis of the rate impacts.
- 14 How did you understand that instruction?
- 15 Was it limited to the residential sector, or did it go
- 16 further than that?
- 17 MR. MICHAEL WEINSTEIN: Mr. Hacault,
- 18 can you please refer us to where on the report you're
- 19 referring.
- 20
- 21 CONTINUED BY MR. ANTOINE HACAULT:
- MR. ANTOINE HACAULT: Sure. The --
- 23 it's -- I have it in page -- little -- it's 1a of page
- 24 1 of the report, so there's some Roman numerals, and
- 25 then page 1. There's paragraph 1a. This is in the

7090 introduction, and then 1.2 -- it's Section 1.2, Scope 2 of Work. 3 (BRIEF PAUSE) 5 6 MR. ANTOINE HACAULT: Yes, Diana's found it. 7 8 MR. RUSSELL TYSON: Yes, where it does 9 say --10 MR. ANTOINE HACAULT: So you could see 11 at the first -- the first phrase says, 1a: 12 "Economic impact assessment to 13 determine sector economic impacts." 14 But as a read your report, sir, your 15 sectors were limited to the residential sector, 16 correct? 17 MR. RUSSELL TYSON: Yes, it was. 18 MR. ANTOINE HACAULT: And if we were to 19 contrast that, the African report that Mr. Williams looked at actually broke down the commercial and 21 industrial areas into eight (8) different sectors and 22 looked at the economic impacts on those sectors, 23 correct? 24 MR. RUSSELL TYSON: Yes. 25 MR. ANTOINE HACAULT: Okay. So I

- 1 guess, unfortunately, we don't have your views of the
- 2 potential impacts, whether they would be positive or
- 3 negative, on the industrial sector, part of which is
- 4 represented by Manitoba Power Industrial Users Group,
- 5 correct?
- 6 MR. RUSSELL TYSON: That would be
- 7 correct.
- 8 MR. ANTOINE HACAULT: Now, in your
- 9 report at page 52 you reference rates. You see --
- 10 initially, you record correctly that Manitoba was doing
- 11 a financial projection, that if it met the 75:25 target
- 12 there would be rate increases 9 -- or 3.95 percent
- 13 annually, correct?
- MR. RUSSELL TYSON: Correct.
- 15 MR. ANTOINE HACAULT: I know there's
- 16 been an influx of a lot of information. Were you aware
- 17 that Manitoba Hydro filed some new financial
- 18 information based on some updated capital costs and DSM
- 19 scenarios?
- 20 MR. RUSSELL TYSON: I'm aware that they
- 21 filed information, the content of which I am not versed
- 22 in.
- 23 MR. ANTOINE HACAULT: Okay. Diana, I
- 24 think you have now on -- in your databank, Exhibit 104-
- 25 12, they were fairly large files. Point three (.3) --

7092 or dash three (3). There's -- the 1st page is the -what I call the reference case, page 61. It's Level 2 DSM. 3 4 I don't know if it's still loading for 5 you, Diana. 6 7 (BRIEF PAUSE) 9 MR. ANTOINE HACAULT: I think there's 10 another way to deal with that while this is loading. Can you also try to load 104-12-2. It's a summary 11 12 table. 13 Now, firstly, if we can go to -- there's 14 a numerical ordering of these plans. And the eleventh 15 item on the left-hand side, we'll see if we go down, it's an All Gas Plan. 16 17 Do you see that on the screen, sir? 18 MR. RUSSELL TYSON: Yes. 19 MR. ANTOINE HACAULT: Okay. MR. RUSSELL TYSON: On line 11? 20 21 MR. ANTOINE HACAULT: On line 11. This is on page 1 of 3 of Exhibit 104-12-2. 22 23 Now, the numbers with respect to the All 24 Gas Plan, if we go across the -- that line 11, you'll 25 see that there's a column B on the top that says

- 1 "Projected Even Annual Rate Increases," and if we've
- 2 gone across line 11, we see that Hydro, under these re-
- 3 run financials for All Gas, is projecting 3.36 percent
- 4 rate increases.
- 5 MR. RUSSELL TYSON: Yes.
- 6 MR. ANTOINE HACAULT: Do you see that?
- 7 MR. RUSSELL TYSON: I see that.
- MR. ANTOINE HACAULT: And then the one
- 9 (1) thing that financial pro formas would show us that
- 10 -- that these are increases over eighteen (18) years,
- 11 and then if we go across two (2) further columns down,
- 12 it's column D in the Excel -- well, this sheet, we see
- 13 that the cumulative increases as of 2031/'32 would be
- 14 82 percent.
- Do you see that?
- MR. RUSSELL TYSON: Yes.
- 17 MR. ANTOINE HACAULT: Okay. And then
- 18 if -- is it your understanding, sir, that the Preferred
- 19 Development Plan is still to proceed with Keeyask and
- 20 then Conawapa with the 750 megawatt line?
- 21 MR. RUSSELL TYSON: That is the
- 22 Preferred Development Plan, yes.
- MR. ANTOINE HACAULT: Yes.
- 24 MR. RUSSELL TYSON: But I also note,
- 25 just for everybody's edification, the significance of

- 1 the pathways that I had identified in the report that
- 2 provide flexibility, which would change the numbers
- 3 going forward. And as a planner, I find that
- 4 interesting, 'cause I think in -- in my opinion, the
- 5 flexibility in those pathways is a critical element
- 6 that has to be looked at in detail, which would change
- 7 the results here. Right?
- MR. ANTOINE HACAULT: We'll take it one
- 9 (1) step at a time. I agree that pathways is
- 10 important.
- MR. RUSSELL TYSON: Okay.
- 12 MR. ANTOINE HACAULT: But one (1)
- 13 pathway might lead us to the line 15 on the left-hand
- 14 side, which pathway is going down the road of Keeyask19
- 15 with a 'W' -- with the sales, and C31 is Conawapa31.
- 16 That's Plan 14 with Level 2 DSM.
- 17 Do you see that, sir?
- 18 MR. RUSSELL TYSON: I'm looking.
- 19 MR. ANTOINE HACAULT: So we start on
- 20 the left-hand side.
- 21 MR. RUSSELL TYSON: Yeah. Yeah.
- MR. ANTOINE HACAULT: Line 15. And
- 23 then we go across, that's Plan 14 with DSM Level 2, and
- 24 if we go to the same column B as in 'Bob', under this
- 25 line 15 and do a cross-section, we see that the annual

- 1 increases are not 3.36 percent, but the revised pro
- 2 formas show that Manitoba Hydro, if it wants to achieve
- 3 the 75/25 target, would have to do 4.63 percent --
- 4 MR. RUSSELL TYSON: Yes.
- 5 MR. ANTOINE HACAULT: -- increases for
- 6 each of those years leading up to 2031/2032, correct?
- 7 MR. RUSSELL TYSON: Correct.
- 8 MR. ANTOINE HACAULT: Okay. And if we
- 9 go two (2) lines further, we see when we compare the
- 10 All Gas Plan at 80 -- 82 percent cumulative nominal
- 11 rate increases, that compares to the plan we were just
- 12 looking at, Plan 14 with Level 2 DSM for a total of 125
- 13 percent increases, or some 43 percent greater increases
- 14 over that time period.
- MR. RUSSELL TYSON: Yes, I see that.
- 16 MR. ANTOINE HACAULT: And some
- 17 mathematicians might say, if you look at 82 percent,
- 18 you're actually looking at a 50 percent increase over
- 19 the All Gas, because you're basically taking half of
- 20 that 40 -- or 82 percent, taking 50 percent of that and
- 21 adding it on.
- So you're having a 50 percent increase
- 23 in -- in between the two (2) plans, correct?
- 24 MR. MICHAEL WEINSTEIN: I just want to
- 25 -- that -- point out that Mr. Tyson's not a

7096 mathematician, so I'm not sure that he can comment on the equation that you're positing here, Mr. Hacault. 3 CONTINUED BY MR. ANTOINE HACAULT: 5 MR. ANTOINE HACAULT: Can you or can 6 you not? 7 MR. RUSSELL TYSON: I'm not a mathematician. MR. ANTOINE HACAULT: 9 Okay. 10 MR. RUSSELL TYSON: But I quess your point is, Does this Gas Plan, because it's got a lower 11 12 rate, repre -- change my mind regarding the analysis? 13 Is that kind of where you're going with it? 14 MR. ANTOINE HACAULT: Well, did you 15 analyze, sir, what impact there would be on ratepayers, residential ratepayers firstly, of seeing that quantum of increase from a total of 82 percent up to a total of 17 18 125 percent rate increases over that time period? 19 20 (BRIEF PAUSE) 21 22 MR. ANTOINE HACAULT: If you didn't, 23 it's okay if... 24 MR. MICHAEL WEINSTEIN: Are you asking him the revised numbers, Mr. Hacault?

- 1 MR. ANTOINE HACAULT: That's on the
- 2 revised numbers. I assumed he was just going to say
- 3 no, but...
- 4 MR. MICHAEL WEINSTEIN: No, because he
- 5 hasn't had an opportunity to be versed in those new
- 6 numbers, so I don't think he'd -- I think the answer is
- 7 no, but the point is that he hasn't had an opportunity.

- 9 CONTINUED BY MR. ANTOINE HACAULT:
- 10 MR. ANTOINE HACAULT: So --
- MR. RUSSELL TYSON: No.
- 12 MR. ANTOINE HACAULT: Thank you, sir.
- 13 Now, if I go to page 58 of your report, you also drew
- 14 some conclusions based on some, I'm going to call old
- 15 graphs, which you sourced from Chapter 13 of the Hydro
- 16 material, correct?
- 17 MR. RUSSELL TYSON: Correct.
- MR. ANTOINE HACAULT: Were you able to
- 19 follow the record to see how this graph has changed
- 20 subsequent to change in methodology to remove common
- 21 costs?
- MR. RUSSELL TYSON: No, I have not.
- 23 MR. ANTOINE HACAULT: Okay. The reason
- 24 why I ask that question, sir, is that you draw some
- 25 conclusions with respect to the S-curves, and those S-

7098 curves have now changed. So if the S-curves have changed, your conclusions on that page, and I'll draw your attention to the conclusion that I'm thinking of, may also have changed, and that relates to the risk of the All Gas Plan that goes way to the left. That's the blue line? 7 MR. RUSSELL TYSON: Yes. MR. ANTOINE HACAULT: So you note under the -- in the first full paragraph after this drawing, in the second sentence of that first full paragraph, 10 11 and I'm quoting: 12 "While a wide range of outcomes are 13 presented, the PDP does offer the 14 greatest upside potential, whereas 15 the Gas Plan's the most downside 16 potential." 17 But that was a comment that you made 18 based on this graph, sir. 19 Isn't that correct? 20 MR. RUSSELL TYSON: That is correct. 21 22 (BRIEF PAUSE) 23 24 MR. RUSSELL TYSON: I had also noted 25 for the panel's understanding that this is based on a

7099 seventy-eight (78) metric, and that the variation in the plans based on the years is an important consideration on looking at this S-curve. 3 4 MR. ANTOINE HACAULT: And we don't yet have full -- fully updated information with all the plans and how they compare for a full quilt, but that's why I was taking you through some of this information 7 that we have received only pretty recently, quite frankly. So I -- I -- I'm not -- it's -- I'm not being critical at all of you, sir, I -- I just wanted tohe 10 panel to understand that when you're making comments 11 12 with respect to certain information, they have to 13 understand that it's in context of what you were 14 provided initially in preparing your report. 15 Is that fair? 16 MR. RUSSELL TYSON: That is fair. 17 MR. ANTOINE HACAULT: Okay. 18 19 (BRIEF PAUSE) 20 21 MR. ANTOINE HACAULT: Okay. 22 you've had a -- a brief conversation with Dr. Grant on the discount rates that were chosen and your conclusion 24 that a 6 percent real discount rate was reasonable. 25 Would you acknowledge that there may be

- 1 Manitoba Hydro customers that might have different
- 2 views on a financial analysis as to the value of money
- 3 to them, and as a result, they might have different
- 4 views on what an appropriate rate to use would be?
- 5 MR. MICHAEL WEINSTEIN: I don't think
- 6 Mr. Tyson can speculate as to the views of -- of those
- 7 individuals, Mr. Hacault.
- 8 MR. ANTOINE HACAULT: He -- I'm not
- 9 asking him to speculate on the views. He acknowledged
- 10 that there was a range of discount rates being
- 11 discussed in the materials that he's read. If -- if he
- 12 can't acknowledge that there would be diffe --
- 13 different perspectives, I'm not too sure why he would
- 14 reference that there's different rates in the
- 15 materials.
- 16 MR. MICHAEL WEINSTEIN: Well, he -- he
- 17 may be able to speak to it -- acknowledge if there are
- 18 different perspectives, but he was asked if other
- 19 individuals might view different rates as reasonable,
- 20 and I think only those individuals can speak to that
- 21 and not Mr. Tyson.
- 22
- 23 CONTINUED BY MR. ANTOINE HACAULT:
- 24 MR. ANTOINE HACAULT: Well, sir, were
- 25 there rates that were higher and lower than the 6

7101 percent you chose? 2 MR. RUSSELL TYSON: Were there rates higher and lower? 3 MR. ANTOINE HACAULT: Yes. 4 5 MR. RUSSELL TYSON: Observed, what we looked at, there was a range of rates between -- I'd have -- I -- just give me a second and I'll reference 7 That was referenced in the NFAT. I think it was five (5) to seven point three (7.3) in reference to what has been done on Site C. Even though it has 10 11 limited application, it is a similar project. They 12 used 5.5 to 6 percent. 13 MR. ANTOINE HACAULT: Thank you, sir. 14 15 (BRIEF PAUSE) 16 17 MR. ANTOINE HACAULT: Those are all the 18 questions that I had of this witness. I thank you very much for being cooperative, sir, and answering the questions that I asked to the best of your ability. 21 MR. RUSSELL TYSON: Thank you. 22 THE CHAIRPERSON: Thank you. We have 23 available time, so --24 MR. SVEN HOMBACH: Well, Mr. Chairman, 25 there's three (3) parties that still need to cross-

- 1 examine, namely, Ms. Saunders, Mr. Gange, who will be
- 2 here tomorrow -- sorry, three (3) Intervenor parties
- 3 that still have to cross-examine: Ms. Saunders, Mr.
- 4 Gange, and Mr. Orle.
- 5 I'm advised Manitoba Hydro will have
- 6 approximately half an hour of questions, and I -- I
- 7 certainly will not be longer than that. So if the
- 8 panel wants to err on the side of caution, and if Ms.
- 9 Saunders is ready, my suggestion would be to continue
- 10 to five o'clock.
- 11 Alternatively, if the panel prefers to
- 12 break right now, we'll try to finish on time in the
- 13 morning.
- 14 THE CHAIRPERSON: I just noticed that
- 15 Me. Hacault has a -- a question.
- 16 MR. ANTOINE HACAULT: There's just one
- 17 (1) thing, and when I looked here that I forgot to ask
- 18 this witness it.
- THE CHAIRPERSON: Please go ahead.
- 20 MR. ANTOINE HACAULT: It won't be very
- 21 long. It's two (2) or three (3) questions.
- 22
- 23 CONTINUED BY MR. ANTOINE HACAULT:
- 24 MR. ANTOINE HACAULT: Diana, could you
- 25 bring up MIPUG-20-5, please, page 180?

- 1 Sir, the question I'll be asking you
- 2 relates to your comments in your report and your slides
- 3 on electricity rates, and how Manitoba rates fare
- 4 compared to other jurisdictions.
- 5 And this is a document that's part of
- 6 the proceedings. It's a Minnesota Power report. You
- 7 may be aware that there's a tie-line, a 750 megawatt
- 8 line, going down to -- to that area, and Minnesota
- 9 Power is championing that line.
- 10 Are you aware of that?
- MR. RUSSELL TYSON: I am aware of the
- 12 line, yes.
- 13 MR. ANTOINE HACAULT: And if we go
- 14 further down that page, Diana -- oh, sorry, it was one
- 15 eighty-eight (188), I believe. At the second last
- 16 paragraph on that page, Minnesota Power is reporting
- 17 that its average retail electric rate is five point
- 18 nine-seven (5.97) cents per kilowatt hour, which was
- 19 the fourth lowest in the US among a hundred and sixty-
- 20 nine (169) providers surveyed.
- 21 Were you aware of that, sir?
- MR. RUSSELL TYSON: No, I was not.
- 23 MR. ANTOINE HACAULT: Okay. And
- 24 Minnesota Power also reports that its retail electric
- 25 rate was the second lowest in the west north central

- 1 region, which had an average rate of seven point eight
- 2 (7.8) cents per kilowatt hour, and finally, the lowest
- 3 in Minnesota, which has an average of eight point zero-
- 4 nine (8.09) cents per kilowatt hour.
- 5 Were you aware of that?
- 6 MR. RUSSELL TYSON: No, I was not aware
- 7 of that.
- 8 MR. ANTOINE HACAULT: Thank you.
- 9 THE CHAIRPERSON: Merci, Me. Hacault.
- 10 Mr. Orle, will -- will you be prepared
- 11 to -- do you have any questions for these -- for Mr.
- 12 Tyson, or are you prepared to go ahead today, or?
- 13 MR. GEORGE ORLE: I -- I will have some
- 14 questions. I'm not prepared at this time. I was to
- 15 caucus with Mr. Anderson this evening after this
- 16 evidence was heard, and I was expecting to go tomorrow.
- 17 I -- I will not be longer than twenty (20) minutes. I
- 18 can assure the panel of that.
- 19 THE CHAIRPERSON: Thank you for that.
- 20 Ms. Saunders, are you prepared to go ahead now?
- 21 MS. JESSICA SAUNDERS: I'm in somewhat
- 22 the same position, Mr. Chair. I don't anticipate
- 23 taking longer than twenty (20) minutes as well, but
- 24 given some of the questions asked today, I may want
- 25 some time to reflect on those questions, if -- if

- 1 that's okay. I -- I could proceed, but I -- I may
- 2 prefer to go tomorrow, if that's all right.
- 3 THE CHAIRPERSON: I believe that
- 4 concludes the session for today, unless there's some
- 5 other business to attend to.
- 6 MR. SVEN HOMBACH: We'll -- we'll
- 7 enforce time limits tomorrow, Mr. Chair, and we should
- 8 be fine. I am advised by Manitoba Hydro counsel that
- 9 Manitoba Hydro has some undertaking responses to speak
- 10 to.
- 11 THE CHAIRPERSON: Okay. Let's address
- 12 those right away then.
- 13 MS. JANET MAYER: Good afternoon.
- 14 Janet Mayer for Manitoba Hydro. We have -- I was a
- 15 given a huge pile of documents that I will hand out
- 16 once the proceedings are adjourned.
- 17 So we have Manitoba Hydro Exhibit 177.
- 18 It is made up of a number of parts, so when individuals
- 19 receive that, they should look at it. There's a number
- 20 of sub-parts to this, and these are Manitoba Hydro
- 21 responses to CAC Exhibit 51. There are, as well, some
- 22 Excel spreadsheets that will be filed electronically
- 23 with -- with the panel as part of that exhibit.
- 24 There is another exhibit, and that one
- 25 will be Exhibit 177.

	7106
1	EXHIBIT NO. MH-177: Manitoba Hydro responses to
2	CAC Exhibit 51 and Excel
3	spreadsheets
4	
5	MS. JANET MAYER: Sorry, I should have
6	done these in a different order. I've got them
7	backwards. Manitoba Hydro Exhibit 176 is Manitoba
8	Hydro's response to a number of PUB questions, and that
9	as well is in three (3) sub-parts.
10	
11	EXHIBIT NO. MH-176: Manitoba Hydro's response
12	to a number of PUB
13	questions; in three (3)
14	sub-parts
15	
16	MS. JANET MAYER: There is, as well, a
17	revision to Manitoba Hydro Exhibit 171 that is being
18	filed, and that is a one (1) page chart relating to
19	economics of the 750 megawatt interconnection plans.
20	
21	EXHIBIT NO. MH-171-REVISED:
22	A one (1) page chart
23	relating to economics of
24	the 750 megawatt
25	interconnection plans

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7107
                   MS. JANET MAYER: And lastly, as we're
   filing is Manitoba Hydro Exhibit 104-4-1, the DSM
   analysis economic summary tables using 4.65 percent
 3
   discount rate.
 5
   --- EXHIBIT NO. MH-104-4-1:
 6
 7
                                DSM analysis economic
                                summary tables using 4.65
 9
                                percent discount rate
10
11
                  MS. JANET MAYER: So those are all the
12
   answers to undertakings and documentation for today.
13
                   THE CHAIRPERSON: Thank you.
                                                  I believe
14 that concludes the session for today, so I wish you all
15
   a good evening, and we'll see each other again tomorrow
16
   morning at nine o'clock sharp. Thank you.
17
                      (PANEL RETIRES)
18
19 --- Upon adjourning at 4:41 p.m.
20
21
  Certified correct,
22
23
24 Cheryl Lavigne, Ms.
25
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