MANITOBA PUBLIC UTILITIES BOARD

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

Regis Gosselin	- Chairperson
Marilyn Kapitany	- Board Member
Larry Soldier	- Board Member
Richard Bel	- Board Member
Hugh Grant	- Board Member

HELD AT:

Public Utilities Board 400, 330 Portage Avenue Winnipeg, Manitoba March 25, 2014 Pages 3502 to 3811

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Re:

PUB re NFAT 03-25-2014

3503 APPEARANCES 1 2 Bob Peters (np) )Board Counsel 3 Sven Hombach 4 5 Patti Ramage (np) )Manitoba Hydro 6 Marla Boyd ) 7 Douglas Bedford ) 8 9 Byron Williams ) CAC 10 11 William Gange ) GAC 12 Peter Miller ) 13 14 Antoine Hacault )MIPUG 15 16 George Orle ) MKO 17 Michael Anderson (np) ) 18 19 Jessica Saunders ) MMF 20 Corey Shefman (np) ) 21 22 Christian Monnin )IEC 23 Michael Weinstein ) 24 25

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--- Upon commencing at 9:15 a.m. 1 2 3 THE CHAIRPERSON: Good morning, Welcome to Manitoba Hydro's societal issues 4 everyone. 5 panel. Before we get started, I would like to advise 6 the parties about the -- about some recently re-posted 7 independent expert consultant reports. 8 As you are aware, the Board is following 9 a process for the review of commercially sensitive information, or what we call CSI. When the independent 10 11 consultant submitted their reports, they were provided 12 to Manitoba Hydro to determine which portions required 13 redactions. Following this review, certain portions of 14 the reports were blacked out. Since that time the 15 Board has initiated a principle review process to -- to 16 determine if any of the redacted information should be 17 made publically available. 18 The Board and Manitoba Hydro reached a 19 consensus with respect to the reports of Knight 20 Piesold, the initial reports filed by La Capra, and the 21 report from Meyers Norris, MNP. Those reports, which now contain fewer redactions, have been re-posted on 22 23 the NFAT website. The Board has not been able to reach 24 an agreement with Manitoba Hydro regarding Potomac 25 Economic's report to date, but has requested a third-

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1 party review process to be initiated. Once the outcome 2 of this process is known it will be communicated to all 3 the parties.

I also want to mention that on Friday 4 5 last, Manitoba Hydro sought clarification of the 6 Board's requested undertaking to provide the uncertainty analysis related to the revised high 7 capital cost scenario for both Keeyask and Conawapa. 8 9 The Board would like to further clarify 10 that the comparison should not assume any change to the gas plant costs for the comparative analysis. So, Mr. 11 12 Wojczynski, I hope that provides the clarification that was needed. 13

14MR. ED WOJCZYNSKI:Yes. Thank you.15THE CHAIRPERSON:So with that, I'll16turn the microphone over to Mr. Hombach.

17 MR. SVEN HOMBACH: Yes, good morning, 18 Mr. Chairman. Good morning, panel members. And good 19 morning to the Intervenors and to Manitoba Hydro and 20 its First Nation partners. Today's session is reserved 21 for Manitoba Hydro's panel dealing with societal 22 issues. Mr. Chairman, that presentation includes a 23 presentation by Manitoba Hydro's four (4) First Nation 24 partners in the development of Keeyask. And I would 25 suggest that you call upon the panel now. I'm advised

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that they have been sworn in. 1 2 I understand that today they're being represented by Mr. Bedford. Mr. Bedford...? 3 4 5 MANITOBA HYDRO PANEL 6: 6 KAREN ANDERSON, Unsworn 7 TED BLAND, Unsworn 8 NORMAN BRANDSON, Unsworn (Qual.) 9 JANE KIDD-HANTSCHER, Unsworn 10 SHAWNA PACHAL, Unsworn 11 IAN PAGE, Previously Sworn 12 MARV SHAFFER, Unsworn (Qual.) 13 VICTOR SPENCE, Unsworn 14 ED WOJCZYNSKI, Previously Sworn 15 EXAMINATION-IN-CHIEF BY MR. DOUGLAS BEDFORD: 16 17 MR. DOUGLAS BEDFORD: Again, good 18 morning, members of the Public Utilities Board. My 19 name is Doug Bedford. I am employed in the legal 20 department of Manitoba Hydro. And my purpose here 21 today and for the next two (2) days is to represent 22 Manitoba Hydro at this hearing. 23 I'm going to introduce you to each of 24 the persons sitting beside me in the first row and 25 behind me in the second row. I will then return and

1 give each of those whom you have not yet met at this 2 hearing an opportunity to tell you very briefly about 3 themselves, and why they have been selected to testify 4 here.

5 I will have a short series of questions 6 for two (2) of the gentlemen in the second row who are 7 testifying as expert consultant witnesses giving opinion evidence. And then we will turn this over to 8 the entry, I think, of at least one (1) exhibit in the 9 hearing. And we'll have the new witnesses sworn in, 10 and then they can do their presentations for you. And 11 12 I think that will use up the balance of this morning. 13 So to my very far left, Mr. Victor 14 Spence is here for the next several days representing 15 the Cree Nation Partners. The Cree Nation Partners is a partnership formed over a decade ago by Tataskweyak 16 Cree Nation, and Mr. Spence is, in addition, a member 17 18 of Tataskweyak Cree Nation and War Lake First Nation. 19 And I'm pleased to tell you, although 20 she is now sitting behind you because she's in the 21 public gallery, that the Chief of War Lake First Nation 22 is in the public gallery today, Ms. Betsy Kennedy. Mr. 23 Spence is currently the manager of future development 24 for particularly Tataskweyak Cree Nation.

25 Next to Mr. Spence sits Ms. Karen

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Ms. Anderson is a member of Fox Lake Cree Anderson. 1 Nation. She is currently the director of operations --2 excuse me -- of the Fox Lake Cree Nation negotiation's 3 4 office. I know that Ms. Anderson, for many, many years 5 has been committed to advancing the interests and 6 concerns of the members of Fox Lake Cree Nation. Next to Ms. Anderson is Mr. Ted Bland. 7 Mr. Bland is currently a senior negotiator for York 8 9 Factory First Nation. He is also a member of the York Factory First Nation, and he has served in the past as 10 the chief for his people at York Factory First Nation. 11 12 Next to Mr. Bland is Ms. Shawna Pachal. 13 Ms. Pachal has had a lengthy career at Manitoba Hydro, 14 and she is currently the division manager in the power 15 projects division. Mr. Wojczynski, I know that you 16 have met in previous weeks. It will be difficult for you to see him, or her -- him at the moment, but 17 18 directly behind me is Dr. Marv Shaffer. Dr. Shaffer 19 has lived for a number of years in British Columbia, and I will have more questions from him regarding his 20 21 background, but he is trained in economics and he 22 consults in the field, and teaches, as well. 23 Next to Mr. Shaffer is Ms. Jane Kidd-24 Hantscher. Ms. Kidd-Hantscher has worked at Manitoba 25 Hydro for a number of years, and for a decade now her

3514 primary responsibility at Manitoba Hydro has been the 1 implementation of my employer's partnership 2 arrangements, both with the Nisichawayasihk Cree Nation 3 with respect to the Wuskwatim project, and now with our 4 5 four (4) First Nation partners on the Keeyask project. 6 Next to Ms. Kidd-Hantscher sits Mr. 7 Norman Brandson. Mr. Brandson currently makes a living as a consultant on environment resource and governance 8 9 matters, but Mr. Brandson had a very lengthy career in the civil service here in Manitoba, completing that 10 11 lengthy career as a Deputy Minister of several 12 different departments. 13 Next to Mr. Brandson is Mr. Ian Page, 14 whom you have met on pervious weeks. Sitting next to 15 Mr. Page is Mr. Brad Regehr. Mr. Regehr is a lawyer. 16 He is a partner with the Winnipeg law firm of D'Arcy & Deacon. And he has for many years represented, among 17 18 others, York Factory First Nation. 19 Sitting next to Mr. Regehr is Mr. Jack London. Mr. London like to recall far too often that 20 21 once upon a time he taught me at law school. But Mr. 22 London now is a -- a partner -- or associated rather, 23 with the Winnipeg firm of Pitblado, and he has for 24 many, many years represented Fox Lake Cree Nation. 25

And, finally, sitting next to Mr. London

3515 is Mr. Bob Roddick. Mr. Roddick is also a lawyer. He 1 hails from Alberta, but he has wisely chosen to 2 represent clients in the Province of Manitoba. And he 3 4 has for many years represented the Cree Nation 5 partners, whom I remind you is a partnership of 6 Tataskweyak Cree Nation and War Lake First Nation. 7 Now, I would like to return and will have each of the witnesses, whom you have not before 8 9 this morning met, say a little bit about themselves. Mr. Victor Spence, we will begin with you. 10 11 12 (BRIEF PAUSE) 13 14 MR. VICTOR SPENCE: Yeah, my name is 15 Victor Spence. I'm from Tataskweyak Cree Nation, and I 16 am here on behalf of our partner -- the partnership, 17 Tataskweyak Cree Nation and War Lake. I've been 18 involved under Tataskweyak both as a councillor and 19 development worker, and also in regards to Keeyask. Our Tataskweyak relationship has given me the 20 21 opportunity to work with the federal government, the 22 provincial government, and Manitoba Hydro extensively 23 in regards to development within our resource area. 24 25 (BRIEF PAUSE)

3516 MR. VICTOR SPENCE: I always find it 1 hard to -- to speak of me. I am here on behalf of our 2 nation, our members. We always say that we are here to 3 talk about and speak about the rights of our nation. 4 5 And I -- I don't want to -- really want to go into talking about me. But for thirty-five (35) years I've 6 7 been involved with Hydro relations, both as a -- a relationship that is based on the unique position that 8 9 Tataskweyak is in, in relation to Hydro electric development. But I will get into that a little later. 10 11 12 (BRIEF PAUSE) 13 14 MS. KAREN ANDERSON: Good morning. My 15 name is Karen Anderson. For myself I have a back -- an 16 education background in social sciences and finance. 17 My work experience has mainly been with our First 18 Nation, but I have an interest in advocating for all 19 our First Nation ins -- issues in the north. T've 20 worked at a local level and regional level. 21 I've seen the community experience Hydro 22 not only from a positive aspect, but the negative 23 I lived through that as a child, and growing issues. 24 up. We've -- you know, we had a negative history with 25 Hydro, but I've seen that also evolve into a positive

1 history. And I've always been advocating for our -2 our members. And so coming here today, I -- I continue
3 that advoca -- advocating for us, Fox Lake Cree Nation.
4 Thank you.

5 MR. TED BLAND: Good morning. My name 6 is Ted Bland. I'm here to represent York Factory. I've been a councillor for one (1) year, back in 2005, 7 chief for two (2) years, 2006 to 2008. Shortly after 8 9 my term as chief I became a senior negotiator for close to six (6) years in April. I've also worked on the 10 JKDA as a senior negotiator, as well as the direct 11 12 negotiated contracts. I'm a hunter. I'm a fisherman. And I'm also a land resource user. Thank you. 13 14 MS. SHAWNA PACHAL: Good morning. My 15 name's Shawna Pachal. As Doug mentioned, I'm the 16 division manager of the Power Projects Development I have a bachelor of science degree and a 17 Division.

18 masters in business administration from the University 19 of Manitoba.

As Doug mentioned, I've had a lengthy career. I've been with Hydro for twenty-nine (29) years. I'd like to remind people I started when I was 5 though. Prior to my current position, I've held various technical and management positions at Hydro as a laboratory supervisor, a safety and occupational

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health officer, the executive assistant to a vice-1 president, quality improvement coordinator, manager of 2 corporate strategic planning, manager of generation 3 strategic relations, the manager of Keeyask 4 5 preconstruction, and the manager of future generation 6 partnerships prior to my -- my current role. 7 Which, as the division manager for the Power Projects Development Division, I have 8 9 responsibility for the overall management of the business enterprise planning phase of new hydro 10 11 generation, which includes preliminary engineering, 12 environmental assessments, and the licensing and 13 regulatory approvals which are required in order to 14 commit to construction. 15 Our division also oversees the 16 negotiation and implementation of the partnership

17 arrangements that align the considerations of the in 18 vicinity First Nations and Aboriginal communities. And 19 we also look after keeping an up-to-date inventory of all of Manitoba Hydro's long-term hydraulic options. 20 21 In my testimony, I'll be providing 22 evidence on policy matters as they relate to the 23 benefits associated with the projects in the Preferred 24 Development Plan along with details regarding our 25 environmental assessment processes and our adverse

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effects arrangements. 1 MS. JANE KIDD-HANTSCHER: Good morning, 2 Mr. Chairman, members of the Board, counsels, 3 Intervenors, Elders and leaders from our First Nation 4 5 partners, ladies and gentlemen. My name if Jane Kidd-6 Hantscher. And as Doug indicated, I'm Manitoba Hydro's 7 partnership implementation supervisor. 8 I have an honours undergraduate degree 9 in communications from the University of North Dakota 10 and a masters in public administration degree from the 11 University of Manitoba. I've been employed with Hydro 12 and Centra Gas for over twenty (20) years and have been 13 in this position, as Doug indicated, for nearly a decade. Prior to assuming the role that I'm currently 14 15 in, I held various positions within both organizations 16 in human resources, corporate planning, and operations. 17 As the partnership implementation 18 supervisor, I am directly responsible for managing the 19 Corporation's business relationship with its First 20 Nation partners on new development projects, 21 specifically Wuskwatim and Keeyask. And in my 22 testimony for the next few days, I will provide 23 evidence on these partnerships specifically related to 24 governance and benefits. Thank you. 25 MR. DOUGLAS BEDFORD: Dr. Shaffer, I

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3520 know from reading your resume that you have for some 1 thirty (30) years now been a consultant and have 2 undertaken a vast variety of engagements for both the 3 Federal Government, a number of provincial governments, 4 5 including our own in Manitoba, but primarily the 6 Province of British Columbia, all of them in the fields of energy, economics, and transportation. 7 8 Have I summarized that reasonably 9 accurately? 10 DR. MARVIN SHAFFER: Yes. I've 11 consulted as well for First Nations, MGOs, and 12 nonprofit organizations, and -- and in areas outside. 13 I -- I primarily consult in the areas of energy 14 transportation and natural resources but in other 15 areas, as well. 16 MR. DOUGLAS BEDFORD: And for a period 17 of time, you worked within the Provincial Government in 18 British Columbia as head of its Crown Corporation 19 secretariate and its Chief Executive Officer of the 20 British Columbia transportation financing authority. 21 Is that accurate? 22 DR. MARVIN SHAFFER: That's correct. 23 MR. DOUGLAS BEDFORD: And over the 24 years you have also worked and continued to do so, I 25 gather, as an adjunct professor in the Public Policy

3521 Program at Simon Fraser University in British Columbia. 1 Your particular areas of interest upon which you 2 lecture being multiple account benefit cost analysis. 3 Is that correct? 4 5 DR. MARVIN SHAFFER: That's correct. 6 MR. DOUGLAS BEDFORD: I would be remiss if I did not note that you have also had the pleasure 7 of teaching in Australia at the University of 8 Queensland and also the University of Tasmania. 9 10 Is that accurate? 11 DR. MARVIN SHAFFER: That's correct. 12 MR. DOUGLAS BEDFORD: And for those 13 with a -- a keen interest to do so, I have observed 14 that your resume attaches a long list of the various 15 assignments that you have undertaken in the consulting field. 16 17 Have I got that accurate? 18 DR. MARVIN SHAFFER: Yes. 19 MR. DOUGLAS BEDFORD: And finally, I 20 note, with pleasure, that you were born in Winnipeq, 21 Manitoba, a long, long time ago? 22 DR. MARVIN SHAFFER: Thank you for 23 that. 24 MR. DOUGLAS BEDFORD: And before I ask 25 the Chair of the Public Utilities Board of Manitoba to

accept that you are qualified to speak under oath today 1 on the field of multiple accounts analysis, is there 2 anything else that you perhaps think I've overlooked in 3 reviewing your qualifications that you would like to 4 5 tell us all now? 6 DR. MARVIN SHAFFER: Only to mention that I received my BA honours in economics at McGill 7 University and my PhD at the University of British 8 9 Columbia. And I've appeared as an expert witness 10 before the BC Utilities Commission, the Clean Energy Commission here in Manitoba, the Ontario Energy Board, 11 12 and the National Energy Board, as well as some panels 13 established under the Canadian Environmental Assessment 14 Act. 15 MR. DOUGLAS BEDFORD: Thank you. Mr. Gosselin, can I ask you to please accept that Mr. --16 Dr. Shaffer, rather, is qualified to testify here 17 18 today? 19 MR. SVEN HOMBACH: Mr. Chairman, I 20 would suggest we canvass Intervenors as to whether or 21 not there are any objections before the panel make its 22 ruling. 23 THE CHAIRPERSON: So why don't we start 24 with Me. Williams, please. 25

1 QUALIFICATION OF WITNESSES:

2 MR. BYRON WILLIAMS: Mr. Chair, first of all we certainly, on behalf of CAC (Manitoba) 3 welcome Chief Kennedy, and Elder Spence, and Ms. 4 5 Anderson, and former Chief Bland. We just have, if we 6 might, a -- a couple questions for Dr. Shaffer. 7 Dr. Shaffer, I'm hidden behind a pillar, but I assure you that I'm in the same -- same room as 8 you are, sir. In addition to your work for Manitoba 9 Hydro in this current NFAT, would I be correct in 10 suggesting that you did a -- a report for the Clean 11 12 Environment Commission in the Wuskwatim proceeding for 13 Manitoba Hydro? 14 DR. MARVIN SHAFFER: That's correct. 15 MR. BYRON WILLIAMS: And, sir, would 16 you have also have done earlier work for Manitoba Hydro in the 1990s in terms of your analytic approach? 17 18 DR. MARVIN SHAFFER: Yes, though in the 19 earlier days I wasn't using the multiple account 20 approach. But certainly in terms of the basic principles of benefit cost analysis, yes. 21 22 MR. BYRON WILLIAMS: And would that 23 have been with regard to the Conawapa project, sir, or 24 the Limestone project? 25 DR. MARVIN SHAFFER: I recall the

3524 Limestone project appearing before -- I think at the 1 time it was the National Energy Board for an export 2 licence application. And I certainly have done work in 3 relation to the Conawapa project. 4 5 MR. BYRON WILLIAMS: Okay. And, sir, 6 just finally for my client, were you the primary author 7 of -- of Chapter 13 of the NFAT business case? 8 DR. MARVIN SHAFFER: Yes. 9 MR. BYRON WILLIAMS: Okay. Thank you. 10 Mr. Chair, CAC (Manitoba) has no objections to the qualifications of the witness as expressed. 11 12 THE CHAIRPERSON: Thank you, Mr. 13 Williams. And, Mr. Gange, please? 14 MR. WILLIAM GANGE: Green Action Centre 15 has no objection. 16 THE CHAIRPERSON: Thank you, Mr. Gange. Me. Hacault, s'il vous plait. 17 18 MR. ANTOINE HACAULT: MIPUG has no 19 objections. 20 THE CHAIRPERSON: Merci, Me. Hacault. 21 Mr. Orle, please. 22 MR. GEORGE ORLE: MKO has no objection 23 to the qualification as an expert. 24 THE CHAIRPERSON: Thank you, Mr. Orle. 25 Ms. Saunders...?

3525 MS. JESSICA SAUNDERS: MMF has no 1 2 objection. 3 THE CHAIRPERSON: Thank you. 4 5 (BRIEF PAUSE) 6 7 THE CHAIRPERSON: Me. Monnin, s'il vous 8 plait. 9 MR. CHRISTIAN MONNIN: Merci, Mr. 10 President. The independent experts and consultants 11 have no objections. THE CHAIRPERSON: Merci, Me. Monnin. 12 13 14 (BRIEF PAUSE) 15 THE CHAIRPERSON: Yes, the panel is 16 17 prepared to accept Dr. Shaffer as an expert witness for 18 the purposes of examining multiple account analysis. 19 Thank you. 20 MR. DOUGLAS BEDFORD: Merci. Mr. 21 Brandson, turning to your resume, I see and please 22 confirm for me that you are currently engaged in a 23 private practice as a consultant with two (2) different 24 firms, and N2B Environmental Resource and Governance 25 Consultancy and EarthWISE Environmental Governance

International Consultants. 1 2 MR. NORMAN BRANDSON: Yes, that's correct. 3 MR. DOUGLAS BEDFORD: 4 And prior to 5 engaging in a private practice in the consulting world, 6 I see through adding up the number of years on your resume that you had a lengthy career in the civil 7 service in the province of Manitoba, thirty-one (31) 8 9 years, and you concluded that career with six (6) years 10 as a Deputy Minister, laterally the Deputy Minister of 11 water stewardship in this province from 2003 to 2005, Deputy Minister of Manitoba conservation from 1999 to 12 13 2003, and a full decade as the Deputy Minister of Manitoba Environment through the 1990s. 14 15 Have I summarized that? 16 MR. NORMAN BRANDSON: Yes, you have. 17 MR. DOUGLAS BEDFORD: And as is 18 generally the case with many Deputy Ministers, before 19 you were a Deputy Minister you were an assistant Deputy 20 Minister, also in departments related to environmental 21 management and legislation in this province, correct? 22 MR. NORMAN BRANDSON: That's correct, 23 yes. 24 MR. DOUGLAS BEDFORD: You're here, I 25 know, to testify today on the subject of sustainable

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3527 development and the legislation in Manitoba with 1 respect to sustainable development, and I noticed with 2 interest that in the past you served as an advisory 3 participant on the Board of Directors of the 4 5 International Institute for Sustainable Development. 6 Is that accurate? 7 MR. NORMAN BRANDSON: Yes, it is. MR. DOUGLAS BEDFORD: 8 And I observed 9 that you have not confined your working life to the geographic boundaries of the province of Manitoba or, 10 11 indeed, of Canada. That you have had occasion over 12 your career to work abroad internationally, and I was 13 particularly observant of the fact that you were a 14 contributor -- contributor on sustainable development 15 issues to a part of Africa. I have in mind 16 specifically with respect to the Canada Manitoba 17 partnership project with the northwest province of 18 South Africa in the years 2000 to 2002. 19 Is that accurate? 20 MR. NORMAN BRANDSON: Yes, it is. And 21 -- and just to clarify, northwest province in South 22 Africa is partnered, or twined, with the province of 23 Manitoba so there's an ongoing relationship between the 24 two (2) jurisdictions. MR. DOUGLAS BEDFORD: And because it's 25

3528 absent from your CV, I can't conclude by observing that 1 you were born in Winnipeg. I'll hopefully speculate 2 that you were. And I'll conclude that probably as long 3 4 ago as Dr. Shaffer was. 5 Is there anything else that you would 6 like this panel and these Intervenors at the Public Utilities Board to know about your experience with 7 respect to sustainable development that's pertinent to 8 9 your testimony here today? 10 MR. NORMAN BRANDSON: No, but I will 11 confirm that I was born in Winnipeg. 12 MR. DOUGLAS BEDFORD: Thank you. And I 13 ask, and I'm sure we'll hear from the Intervenor's 14 counsel momentarily, but I do ask, Mr. Gosselin, that 15 you qualify Mr. Brandson to testify here today on the 16 subject of sustainable development and the legislation pertinent to sustainable development in the province of 17 18 Manitoba. 19 THE CHAIRPERSON: I'll call on the 20 Intervenors, please. I will start with Mr. Williams, 21 please. 22 MR. BYRON WILLIAMS: Mr. Chair, before 23 I do, if I could perhaps get some clarification from my -- My Learned Friend on behalf of Manitoba Hydro in 24 25 terms of the -- the expertise for -- for Mr. Brandson.

3529 And -- and specifically, I -- I take it, you're not 1 suggesting that he has expert -- or are you suggesting 2 he has expertise in the interpretation of the -- the 3 legislation? I'm just trying to understand exactly 4 5 what the qualification is. 6 MR. DOUGLAS BEDFORD: He certainly has 7 expertise in the history and development and implementation of the legislation. I think, in life, 8 9 if one is implementing legislation you have to have some ability to interpret it. We are not, however, 10 presenting Mr. Brandson as a lawyer. He is an engineer 11 12 by training. 13 MR. BYRON WILLIAMS: And just a couple 14 of questions for Mr. Brandson, if -- if I might. 15 Mr. Brandson, in -- in your role as a 16 senior public official you are familiar with the 17 classes of development under the Environment Act, those 18 being Classes 1, 2, and 3, sir? 19 MR. NORMAN BRANDSON: Yes, I am. 20 MR. BYRON WILLIAMS: And during the --21 the -- your tenure with the province, do you ever 22 recall a Class 3 development ever being denied? 23 MR. NORMAN BRANDSON: No, I don't 24 recall such a case. No. 25 MR. BYRON WILLIAMS: We -- we thank Mr.

3530 Bedford for his clarification and acknowledging that 1 Mr. Brandson has exp -- expertise in the history, 2 development, and implementation of the Sustainable 3 Development Act, but that it -- he is not being 4 proffered as a expert in its interpretation. We accept 5 his qualifications. 6 7 Thank you, Me. THE CHAIRPERSON: Williams. Mr. Gange, please. 8 9 MR. WILLIAM GANGE: Green Action Centre 10 accepts Mr. Brandson's qualifications. 11 THE CHAIRPERSON: Thank you, Mr. Gange. 12 Me. Hacault, sil vous plait. 13 MR. ANTOINE HACAULT: MIPUG also 14 accepts the qualifications as clarified by the exchange 15 between Mr. Bedford and Mr. Williams. 16 THE CHAIRPERSON: Merci, Me. Hacault. 17 Mr. Orle, please. 18 MR. GEORGE ORLE: MKO accepts the 19 qualification as an expert. 20 THE CHAIRPERSON: Thank you, Mr. Orle. Ms. Saunders, please. 21 22 MS. JESSICA SAUNDERS: The MMF accepts 23 the clarifications -- sorry, the qualifications as 24 clarified. Thanks. 25 THE CHAIRPERSON: Me. Monnin, sil vous

plait. 1 2 MR. CHRISTIAN MONNIN: Merci, Mr. President. No objections. 3 4 5 (BRIEF PAUSE) 6 THE CHAIRPERSON: For the benefit of 7 the panel, I wonder if you could clarify or explain the 8 9 Class 3 section of the Sustainable Development Act? Could -- could you -- could one (1) of you explain that 10 11 one (1) to the panel? 12 MR. DOUGLAS BEDFORD: The classes of 13 development come from the Environment Act, not the 14 Sustainable Development Act. And they're all defined in a regulation. So going by memory, certainly a 15 16 generating station is such a -- a size and expense and magnitude that it's a Class 3 development. 17 18 Not all transmission lines are Class 3 19 developments, but very large ones above -- and I think the threshold is 250 kilovolts, but I can stand to be 20 21 corrected. They, too, are Class 3 developments. And I 22 would myself have to look at the regulation to give you 23 practical examples of Class 2 and Class 1. 24 The level of -- of approval required 25 changes as well. The Minister of Conservation has to

3532 approve a Class 3 development. My recollection is that 1 2 the director of the conservation branch can approve a Class 2 development and a Class 1. But I -- again, I 3 4 may stand to be corrected. Even though we lawyers 5 pretend that we are the experts in interpreting 6 legislation, I choose to believe that we have no greater skills than any other person who can read and 7 write. 8 9 THE CHAIRPERSON: Okay, the panel is 10 prepared to accept Dr. Brandson as expert witness in relation to sustainable development, and also with 11 12 respect to the history, development, and implementation 13 of the Sustainable Development Act. Thank you. 14 MR. DOUGLAS BEDFORD: Merci. Mr. 15 Simonsen, if we could now swear in those witnesses who have not been sworn before. And when that's done we 16 17 can turn to the exhibits. 18 19 MANITOBA HYDRO PANEL 6 CONTINUED: 20 KAREN ANDERSON, Sworn 21 TED BLAND, Sworn 22 NORMAN BRANDSON, Sworn (Qual.) 23 JANE KIDD-HANTSCHER, Affirmed 24 SHAWNA PACHAL, Affirmed 25 IAN PAGE, Previously Sworn

1 MARV SHAFFER, Sworn (Qual.) 2 VICTOR SPENCE, Sworn 3 ED WOJCZYNSKI, Previously Sworn 4 5 CONTINUED EXAMINATION-IN-CHIEF BY MR. DOUGLAS BEDFORD: 6 MR. DOUGLAS BEDFORD: Turning now to 7 exhibits. I confirm for the record that prior to today my client filed what has now been entered as Manitoba 8 9 Hydro Exhibit number 128. One two eight is a very 10 short document. It is an addendum to a lengthy report prepared by the firm of Deloitte with respect to the 11 12 experience of training and employment on the Wuskwatim 13 project. 14 And I note that that report was prepared 15 not solely for Manitoba Hydro but for the partnership which owns the Wuskwatim project, which is Manitoba 16 Hydro and the Nisichawayasihk Cree Nation and a 17 18 numbered company, which is the general partner. 19 For our purposes today, the next exhibit 20 being filed by Manitoba Hydro will be known as Manitoba 21 Hydro number 129, and it is the paper copy of the 22 presentation that you will view this morning. 23 24 --- EXHIBIT NO. MH-129: Paper copy of panel 6 25 presentation

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3534 MR. DOUGLAS BEDFORD: 1 The presentation will be delivered by, as I recall, six (6) or five (5) 2 different individuals, but it breaks into seven (7) 3 parts. And I will endeavour as we transition from one 4 5 (1) speaker to the next, to identity on the record 6 where we are with respect to the presentation. 7 When Mr. Spence is about to begin his remarks, he wants to make use of a map showing the 8 9 location of the home where he comes from where the Tataskweyak Cree Nation is located, and we'll have that 10 entered at that time and copies distributed for people 11 12 to see. Mr. Simonsen tells me we'll also be able to 13 see the map on the monitor. 14 And you will also be treated this 15 morning to a handsome video, and we will mark that as 16 an exhibit when it comes time for you to enjoy the 17 video. So we are now ready to begin. 18 19 (BRIEF PAUSE) 20 MR. DOUGLAS BEDFORD: 21 Over three (3) 22 weeks you've experienced Mr. Wojczynski. He confuses 23 me at times, as well. And now for something completely 24 different which is Mr. Wojczynski, and he will start 25 the testimony this morning.

3535 1 MR. ED WOJCZYNSKI: Doug and I enjoy our banter. 2 3 4 (BRIEF PAUSE) 5 6 MR. DOUGLAS BEDFORD: As I -- I 7 promised, now that we're at the Power Point presentation, we are using Exhibit Number 129, and Mr. 8 9 Wojczynski's remarks are with respect to the very first page with real content, which is numbered page 2 for 10 11 those with paper copies. 12 MR. ED WOJCZYNSKI: Good morning, Mr. 13 Chair, panel, and all the other participants. Before I get started on behalf of Manitoba Hydro and on behalf 14 15 of the whole NFAT team, I want to say that I'm honoured 16 that we have our First Nation partners here, both on the panel and as part of our audience, including Chief 17 18 Kennedy. 19 And I also want to say that we're 20 pleased that -- that you, the panel, have concurred 21 that -- that -- of the importance of our partners being 22 in this process by accepting them being --23 participating this way, so thank you for that. 24 This is our last full panel that we'll 25 be presenting, and it does a number of things. First

1 of all, it deals with societal issues that are in the 2 terms of reference and part of the scope of this 3 exercise, the macro-environmental and the socioeconomic 4 which we'll start with, then also the Manitoba 5 government related issues that are in the terms of 6 reference, particularly the Sustainable Development Act 7 principles.

8 And then as Dr. Hunt -- I think the term 9 he used perhaps was, We need to have a real economic 10 analysis that is more than just looking strictly narrowly at Manitoba Hydro. That that is -- we -- the 11 12 social benefit cost analysis. I termed it here, 13 socioeconomic benefit cost analysis. Given the terms 14 of reference it seemed inappropriate labelling. 15 And lastly, as the concluding panel, 16 I'll be presenting an integration of all the various 17 perspectives we're talking about, and Manitoba Hydro's 18 overall conclusion at this point, recognizing of course 19 that more evidence is going to be led, and we're going 20 to have -- provide an update and present the updated 21 info -- the additional updated information and 22 conclusions on April 4th. 23 So -- but -- but we'll be presenting as

24 the -- the end of this set of presentations our overall 25 integration and conclusion. You will recall when we

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3537 started off this exercise a number of weeks ago that we 1 outlined all the perspectives that will be brought 2 forward, and are part of the evaluation and decision 3 4 process. 5 And what I've just highlighted for you 6 here in, I guess it's orange, are the new pieces of evidence that have not been -- been brought forward in 7 any significant way, and is the job of this panel, as 8 9 well as the -- of course the social benefit analysis 10 and the integration. 11 So with that, I will hand this over to 12 Ms. Karen Anderson, who will be leading off on behalf 13 of the First Nation partners. 14 MS. KAREN ANDERSON: Thank you. 15 16 (BRIEF PAUSE) 17 18 MS. KAREN ANDERSON: So I welcome the 19 opportunity to come and speak to the panel today, to the Board, on behalf of Fox Lake Cree Nation chief & 20 21 council and other members. Thank you again. 22 Mr. Chair, members of the Board, and all 23 present here today, my name is Karen Anderson, and I'm 24 a member of the Fox Lake Cree Nation, a mother, a 25 granny, and a survivor of the 1960s, 1970s, and '80s

3538 Hydro construction in our traditional territory. 1 Currently, I'm the Director of Operation 2 and Adverse Effects Advisor for the Fox Lake Cree 3 Nation negotiations office. Projects like Wuskwatim, 4 5 Keeyask, and potentially Conawapa move us into a new 6 era where we can strengthen our communities and do 7 business in ways that we could have not done without those avenues. 8 9 We have taken control of our own lives 10 and our future. We are beginning to do something that outside agencies and governments have not been able to 11 12 do, and that is to empower our people. And we have 13 done that on our own and through our partnership by 14 providing training and employment, negotiating and 15 implementing business contracts such as direct 16 negotiated contracts, or DNCs. 17 We are being part of, for the first time 18 ever, the Environmental Assessment process and having 19 our research, traditional knowledge, and wide -- widespread community participation instrumental in not only 20 21 the filing of the statutory requirements of an 22 Environmental Impact Statement, but one that addresses 23 the real issues of the impacted First Nations by 24 managing and implementing our Keeyask Adverse Effects 25 Agreement and having a crucial role in monitoring

1 environmental impacts.

We are experiencing, for the first time, 2 the pride of ownership and we look forward to reaping 3 our share of profits from both Keeyask and Conawapa so 4 5 that as a community we are be -- we are able to begin 6 planning for and implementing the divisions of the 7 community. We will use that income to assist us in living mino pimatisiwin, which simply translated means 8 9 to live life well.

10 We have strived to ensure that all of 11 our members were well informed of the planning and 12 approval of the Keeyask project, and we are continuing 13 to do so on Conawapa. We are proud of the role we have 14 -- we've played in the development process of the two 15 (2) projects so far. And we are proud of the 16 relationships we have built. And we are pleased that 17 Fox Lake will continue to be involved in the governance 18 of these projects to learn from them and to protect our 19 interests.

20 My comments today cannot be fully 21 appreciated without a real understanding by this Board 22 of how -- of how our lives have been affected by past 23 Hydro electric development. It has improvis --24 impoverished us in ways that are more than just 25 economic and has contributed to a sense of

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powerlessness as multiple projects were constructed 1 around us. It has contributed to a degradation of our 2 -- the Fox Lake people's emotional, physical, and 3 spiritual well being. 4 5 The arrogant and collonial and immoral 6 manner in which the past development has occurred not 7 only ignored our presence and our rights, but del -deliberately devalued our rights on us. So it is probl 8 9 -- it is problematic that so called experts external to our First Nations who have their own compet --10 11 competitive positions to advance reference the 12 devastations of the past as though they have just discovered them themselves. 13 14 My people have lived through horrible 15 and challenging circumstances and have survived. We 16 will interpret and tell our own history. We don't -we -- we do not need no Columbus-like announcement that 17 18 others have discovered our history and -- with the 19 intent of using it to advance their own positions. 20 This is disheartening. 21 The Fox Lake Cree and our ancestors have resided in the nower -- nower -- excuse me, in the 22 23 Lower Nelson River for generations before contact with 24 the Europeans. Here the lands and waters sustained our 25 communities and provided for all our needs to ensure

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3541 our survival and well being. We hunted game for food 1 and used our resources to make products to assist on 2 our daily lives. 3 For generations our people have lived 4 5 along side and maintained relationships with European 6 settlers. Our people continue to live at and utilize 7 important -- important cultural sites including at Kettle Rapids in the newly established rail town of 8 9 Gillam, and along the Bay line. 10 Although government policies intended to 11 restrict and control our people were implemented in 12 Canada, Fox Lake people managed to live a relative --13 relatively good life and people continue to be self-14 sufficient and self-supporting. Our people maintain 15 their social cohesiveness, which served as an 16 insulating mechanism as it were. In short, our people were resilient. In 1966, Manitoba created a local 17 18 government district of Gillam, after which Fox Lake 19 people were considered by the government to be 20 squatters on our own land. 21 The homes of our families were bulldozed 22 and our families were displaced and moved without 23 permission -- without our permiss -- permission. And 24 even in some circumsta -- instances, without our prior 25 knowledge, these and similar events were profoundly

25

disempowering and marginalizing. 1 2 In 1967, without informi -- information provided to or consultation with us, the water -- water 3 power reserve was identified, and the area extended 4 from Norway House to Hudson Bay, culminating in the 5 6 Water Power Act of 1967. And then, if all of that had not been enough, came the dams: Kettle, Long Spruce, 7 and Limestone. Everything got consider -- considerably 8 9 worse. 10 In none of those instances, even 11 Limestone, were we consulted or thought about in any 12 significant way, let alone becoming part of the 13 negotiations and partnership in the planning, 14 development, and construction of the dams. So until 15 then, hydro development, meant to Fox Lake being 16 displaced and removed from our homes and homeland, 17 restrictions on the land with regard to hunting, 18 gathering, and fishing on -- on which we were not 19 consulted on and with no access to traditional areas. 20 There were alcohol and drug-related 21 issues, harmful crime and justice issues, 22 discrimination and racism at the personal employment and service level in the non-First -- First Nation 23 24 community and from government. Our women experienced

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unspeakable abuse and violation. Our children

3543 experienced discrimination within the school and within 1 2 recre -- recreational activities in the community. 3 But this time, we, the Fox Lake Cree Nation, are asserting our voice, showing our strength 4 5 and resilience. We haven endured enough to destroy our 6 people, but we have survived as a people and will be part of the development and use of the resources in our 7 traditional territories. 8 9 There will be no hydro development in the future without our consent. And the notion we 10 believe hydro development to be inevitable --11 12 inevitable is simply not true. You have to remember 13 that until this point in time we have been ignored. 14 And, yes, hydro development proceeded without any --15 any regard for -- for how we felt. 16 It is hard for our community to forget that feeling and sense of hopelessness and it is unfair 17 18 for outsiders to judge our people and make assumptions 19 about how we feel. 20 Let me speak now for a few minutes about 21 Keeyask and Conawapa in particular. We would never say 22 that in having negotiated the Keeyask partnership we 23 achieved all of our goals or that the terms of the 24 limited partnership or our adverse effects agreement 25 are fully consistent with all of the things we might

3544 have -- we might like to have included or, for that 1 matter, that all of the potential impacts on our lives 2 will have been defended, mitigated, or compensated. 3 4 The agreements are not perfect. We 5 would have liked to have more resources and programs in 6 the agreements. But most importantly, the trade-outs have been thoughtful and our people have been given 7 full opportunity to express themselves on the details -8 - on the details and the desirability -- desirability 9 of the terms of the Keeyask project, and also will be 10 11 the case with Conawapa. 12 There are considerable benefits to 13 negotiations of the JKDA produced and will produce for 14 Fox Lake in terms of capacity building, economic 15 rewards, the assurance that we will be an informed 16 people with regard to the development, and we will 17 participate in the governance of the project. 18 It would take many hours for me to 19 describe every benefit we see as forthcoming, all of which, in our view, communitively outweigh what we see 20 21 as negative effects. 22 So let me summarize what we anticipate 23 those benefits are and for which, of course, we are 24 investing our funds by way of capital contributions to 25 the Keeyask partnership. Our career income earning

ability has been facilitated and -- and improved by the training programs in which our membership participated extensively throughout the years, and the members that are members have experienced, are experienced, or will experience as the development of the project continues and gathers steam.

7 In that same context, under the terms of the JKDA, Fox Lake has been awarded approximately 20 8 9 percent of the value of the DNCs, which have been made available to the Cree Nations without public tender. 10 Ι want to empha -- emphasize that the terms, mechanics, 11 12 and outcomes established through negotiations with 13 Manitoba Hydro, the province, and the unions for the 14 training and employment programs, and the awarding of 15 the DNCs were and are not prefect, but they were 16 methologies -- methodologies and outcomes in the 17 development of what we -- of which we participated. 18 We negotiated and our members approved. 19 Throughout the negotiations we won some and loss some. 20 But in those processes, and in operation --21 operationalizing the employment and business 22 opportunities, the -- the ability of our people to be 23 employed and to do business now and in the future has 24 been positively affected. 25 Of course, we will also benefit as an

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1 equity partner from the income opportunity we have in 2 the profits of Keeyask. I know that our contractual 3 and business arrangements with Hydro -- Manitoba Hydro 4 are not the subject of this hearing, but I do want to 5 say that two (2) potential investment streams are 6 available to the Cree Nations who are partners.

7 Depending on the circumstances, we will chose to participate at the time the last turbine goes 8 9 into service -- service, and we anti up our investment funds. We look forward to the stream of income not 10 only because of the programming it will allow but 11 12 because these will be our funds resulting from our investment and our efforts. I know we will not be 13 obligated to other levels of government or institutions 14 15 in the determination of the use of these -- of those funds. 16

17 Lastly one (1) of -- one (1) of the 18 benefits we have achieved is -- is our internal 19 assessment with that -- which -- excuse me, which led 20 to the approval of the partnership by our membership, 21 which is our Adverse Effects Agreement. Each of the 22 Cree Nations separately negotiated a Keeyask Adverse 23 Effects Agreement with Manitoba Hydro. This was 24 approved by our membership in the referendum process. 25 Because Fox Lake is downstream of the

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1 Keeyask project, the environmental impact of the 2 Keeyask project on Fox Lake traditional territory, 3 unlike what it will be with the case of Conawapa which 4 will be built in our resource management area, this 5 will not be as significant as the environmental impacts 6 on other Cree Nations upstream from the Keeyask 7 project.

8 However, because of Fox Lake's presence 9 in and near Gillam, the impact from the influx of workers will be quite substantial once again, and it 10 has been identified as a significant adverse effect 11 12 that needs to be, and is being, addressed. Much that should be said about our 13 14 Adverse Effects Agreement was a subject of the 15 environmental assessment being done by the Clean 16 Environment Com -- Commission in its recent hearings at 17 which we testified. Understand that this is not the 18 purpose of this hearing to redo that mandate, so I'll 19 be concise in dealing with these issues.

20 So I see that the -- that the written 21 evidence of some witnesses is simply repeating 22 information and opinions disclosed at that hearing. 23 Let me say that all of the mitigation programs have a 24 focus on healing and strengthening the Fox Lake people, 25 and on strengthening Fox Lake's culture, language, and

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heritage. 1 2 These -- these programs include a youth wilderness traditions program, the Cree language 3 program, grave-side restoration program, alternative 4 5 justice program, a crisis centre and wellness coun --6 counselling program, lateral violence and a where-do-7 we-go-from-here program, and lastly a resource users access program. 8 9 Fox Lake will receive the funding for 10 and will administer all the offsetting programs. We'll -- we are required to provide annual budgets and annual 11 12 reports to our members, and to Manitoba Hydro to ensure 13 that the funds for the offsetting programs are used 14 only for those programs. 15 However, we have the ability to re-16 allocate funding between programs, discontinue 17 programs, and create new programs to address our 18 adverse effects. The challenge that people have to 19 remember is that given the history I have described, we have much healing to do and therefore our community 20 21 struggles with, Where do we start? 22 There is much development currently 23 occurring in our homeland or our backyard, and we are 24 working with adjusting the current influx of workers, and we will have our programs underway for all our 25

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members to benefit. 1 2 Other initiatives agreed to in our processes of negotiations include the Harmonized Gillam 3 Development initiative which requires Fox Lake, 4 5 Manitoba Hydro, the Province of Manitoba, and the Town 6 of Gillam to participate in discussions which acknowledge the political margini -- marginalization of 7 Fox Lake people in Gillam, unhealthy race -- racial 8 9 relations in the area. 10 A number of guiding principles were 11 agreed to by which the parties collectively would work 12 together over time to mitigate these inappropriate 13 relationships and build a more harmonious environment 14 in Gillam, where so many of our members reside. 15 Finally, before some short remarks on 16 Conawapa I want to address the process through which our members authorize our chief and council to sign the 17 18 JKDA. Fox Lake entered into a process of negotiations 19 sometime after TCN had negotiated a bilateral agreement 20 in principle which ultimately formed the basis for and 21 set the boundaries on subsequent events. Our Keeyask negotiations office together 22 23 with our lawyers participated in -- participated fully 24 and conscientiously in all of the negotiations. 25 Throughout that whole process, Fox Lake mained --

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1	maintained the Keeyask Advisory Committee, which was
2	comprised of a number of Fox Lake members. They met
3	consistently with our technical people and lawyers or
4	independently of them, received status reports and
5	information and offered their perspectives, positive
6	and negative, as representatives of the community.
7	In addition, throughout the entire
8	process regular information centre sessions were
9	held with our members at band meetings and at specially
10	called community meetings. We also formed core groups
11	of our resource users and Elders who participated in
12	the environmental assessment process and the
13	recommendations flowing from it.
14	All major developments were communicated
15	to the membership throughout the process period. I
16	note that a number of different chief and councils were
17	elected and served during that period. Our partish
18	our participation on projects was, to my knowledge,
19	never once a negative issue in those elections.
20	Once terms of the JKDA had been finally
21	settled we held referender (sic) for our members after
22	yet more community consultation. All of the complexity
23	of the agreements were highlighted in those
24	consultations. Presentations were taken on several
25	road trips to various locations in Manitoba where our

1 members reside.

2 Of course, opponents and critics of the concept or individual terms were also welcome at the 3 meetings so that all points of view might be heard and 4 5 taken into account. The ratification and referenda 6 (sic) process then was conducted in accordance with the -- provisions of the JKDA. Overall, 99 -- 91.9 percent 7 of the voters voting favoured the JKDA. Ninety-three 8 9 point three of voters voting favoured the adverse 10 effects agreement. 11 Mr. Chair and members of the Board, I 12 have one (1) last point to make with regard to the 13 approvals of the JKDA given by the Fox Lake membership. 14 Not every Fox Lake member took advantage of the 15 consultations. Not every Fox Lake member voted. And 16 not every Fox Lake member believes that we did enough as a community to investigate, analyze, and protect our 17 18 environment. To expect such unanimity would be an 19 impossible fantasy. 20 But I do want to affirm that we, at Fox 21 Lake, valued and encouraged debate and critical 22 descent. We always try to find consensus and we get as 23 close as we can to a consensus when we -- when we can. 24 We did so in our approval of Fox Lake entry into the

25 Keeyask partnership. In fact, after many decades of my

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3552 own experience, it is my view that, to the extent that 1 some people did not choose to vote in the referanda 2 (sic) at Fox Lake, we would consider that may -- there 3 may be two (2) reasons for the abstention. 4 5 One (1) would be that the member did not 6 care one way or the other. And the other would be that 7 the member was not objecting to the outcome, leaving it instead to the leadership of our community, which --8 9 which had been interested with a duty to do so to the best that could be done for the community. 10 11 Lastly, Mr. Chair and members of the 12 Board, one (1) final comment on Manitoba Hydro's 13 Preferred Development Plan. You have heard me speak 14 extensively about Keeyask because there has been an 15 extensive history related to our participation. 16 Our members have not yet had the opportunity to be fully informed and consulted on all 17 18 aspects of Conawapa. There are many matters yet to be 19 negotiated with Manitoba Hydro beyond the -- beyond the key terms of agreement referenced in IR/PUB/MH-11-499. 20 21 I will not read it here, but I commend 22 it to your close attention. That agreement grew out of 23 promises and a 2004 Memorandum of Understanding about 24 Conawapa between the Province of Manitoba, Manitoba 25 Hydro, and the Fox Lake Cree Nation. It will be some

time before matters are finalized. Fox Lake must 1 complete its discussions with Manitoba Hydro, and Hydro 2 then has to consult with four (4) other Cree Nations in 3 4 the vicinity. However, as is evident, Fox Lake Cree 5 6 Nation -- excuse me -- Fox Lake Chief and council 7 signed a krey term -- key terms agreement regarding Conawapa after negotiations between -- between them and 8 9 Manitoba Hydro's senior executives. The agreement was 10 then approved by the Manitoba Hydro Board. 11 We see Manitoba Hydro's Preferred 12 Development Plan, which includes Keeyask in 2017, 13 Conawapa in 2026, and a 750 megawatt line as an 14 essential and vital to our interest. Hydro power is 15 one (1) stone -- a cornerstone of our plan to live mino 16 pimatisiwin where our people can enjoy and maintain our 17 land-based pursuits, as well as enjoying and pursuing 18 opportunities that the non-First Nation community takes 19 for granted. 20 Because Conawapa will be built in our 21 resource management area, the approval and development 22 of Conawapa is of huge importance to us and to our 23 future generations. We very much hope that this Board 24 will recommend the Preferred Development Plan to the 25 Minister. Ekosi. Thank you.

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1 THE CHAIRPERSON: Thank you very much 2 for your comments and the panel has no questions to 3 address to you, so. But thank you very much for those 4 comments.

5 MR. TED BLAND: Good morning. My name 6 is Ted Bland and I'm representing York Factory. I'd 7 like to thank you for giving us the opportunity to speak to you today. I am the senior negotiator for 8 9 York Factory future development, and a member of the 10 York Factory First Nation. In our language we call ourselves Ininu (phonetic). We are also known as Cree. 11 12 Our ancestral lands are the vast region of the lower 13 Nelson and Hays Rivers and -- and the Hudson Bay coast. 14 I have travelled here from my home 15 community of York Landing, or as we say in our language 16 Kawechiwasik, located on the south shore of Split Lake on the Nelson River, upriver from the proposed site of 17 18 the Keeyask generation project. York Factory First 19 Nation is a partner in the Keeyask generation project. 20 As you know, Keeyask is a very -- a key part of 21 Manitoba Hydro's Preferred Development Plan.

I want to speak to you briefly about how and why York Factory came to our decision to support Keeyask. Councillor Gordon Wastesicoot from our First Nation made a presentation to you on February 27th. He

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explained how our community was relocated from York 1 2 Factory and the Hudson Bay coast to York Landing in 1957. Right after we arrived in York Landing 3 construction began on the Kelsey Dam located on the 4 5 Nelson River, just upriver from our community. 6 Following Kelsey, more dams were built 7 on the Nelson: the Kettle, Long Spruce, and Limestone. 8 Outflows from Lake Winnipeg were regulated in the 9 1970s, changing the water levels, flows, and ice conditions on the Nelson River and Split Lake. Also in 10 11 the 1970s, the Churchill River was diverted into the 12 Burntwood and the Nelson, further affecting the waters 13 of Split Lake. 14 Damming and water regulation caused 15 devastating changes to our world: erosion; siltation; unclean water; destruction of fish and animal habitat; 16 17 unsafe navigation of ice; impacts on trapping, fishing; 18 impacts on our culture, customs and traditions. 19 The dams on the lower Nelson River has 20 generated billions of dollars for Manitoba Hydro and 21 the Manitoba government. The people of Manitoba have benefited from the revenues that flow to the Manitoba 22 23 government from low electricity rates, and from the 24 employment and business income. The Ininu who live 25 along the regulated waterways have seen few benefits

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from these dams, but we live with the environmental 1 2 damage they have caused. 3 As Councillor Wastesicoot said in his presentation, we've been living with Hydro development 4 5 for over a half a century, and for all those years we 6 saw few if any lasting benefits. We have seen poverty, chronic unemployment, lack of education, while the 7 people of Manitoba have benefited and continue to 8 9 benefit from the electricity produced by the Nelson 10 River. 11 Despite major changes to the land and 12 waters of northern Manitoba caused by hydro 13 development, we continue to go out on the land, river, 14 and lakes as we have for thousands of years. We 15 harvest fish, animals, and plants, continuing the 16 traditions and customs of our people, and applying the knowledge that has been passed on from generation to 17 18 generation, but it is difficult. 19 Counsellor Gordon Wastesicoot could also 20 tell you how York Landing is physically isolated from the outside world. There is no all-weather road. 21 We 22 travel by ferry and boat in the summer, by ice road in 23 the winter, and by plane all year round. This 24 isolation means that there are major challenges to 25 access healthcare, social services, education,

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1 employment, and business opportunities.

2 York Factory has taken a long view that further development of hydro electric projects in 3 northern Manitoba can only proceed with the direct 4 5 involvement of the First Nation people directly 6 affected. York Factory has also determined that any 7 future hydro developments within our ancestral lands must advance our community and economic interests. 8 As I said, York Factory is a partner in 9 10 The terms of the partnership are outlined in Keeyask. the Joint Keeyask Development Agreement. We have 11 12 negotiated the terms of the JKDA over many years. We 13 have many, many meetings with our members. We spoke 14 with each other about the project, what it means to us 15 as individuals and as people, what it means for our 16 children and generations not yet born. 17 We discussed the potential environmental 18 and social impacts of Keeyask, and the potential 19 benefits of the project. We made our decision with 20 open eyes, understanding the environmental and social 21 changes Keeyask will bring. We chose to support 22 Keeyask because we believe it's the best interest of 23 our nation. 24 Before Chief and Council signed the JKDA 25 and our Adverse Effects Agreement, we held a vote in

1 our commun -- of our members; 87 percent of the ballots 2 cast supported Chief & Council singing the agreements. 3 While this was a strong majority of voters, we 4 recognize the choice was not unanimous. Others voted 5 yes and did so with mixed feelings. It is important to 6 acknowledge and respect the perspectives of all of our 7 members.

As we move forward, we continue to work 9 together to heal our community. We will work with our 10 community and partners to reconcile our participation 11 in Keeyask with our relationships and obligations to 12 the natural and spirit world, and to the generations to 13 come. If we do not, our Elders and our teachings will 14 tell us we will not survive as a people.

York Factory examined Keeyask for many 15 16 We completed our own studies of this project years. 17 We wrote our own evaluation report called, effects. 18 Kipekiskwaywinan, which means 'Our Voices' in Cree. 19 Kipekiskwaywinan tells a story of how we came to 20 support Keeyask. It is an honest account and explains 21 in the words of our people how we have been harmed by 22 past hydro development. It explains why we chose to 23 support Keeyask. It outlines our hopes and our 24 expectations. I strongly encourage you to read it. 25 And this is our document here, so please take the time

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to read it. 1 2 The benefits of the Keeyask project include training and employment opportunities that 3 would not otherwise be available to our community. 4 We 5 will also be -- there will also be financial benefits 6 from business opportunities and investment income. The 7 increased capacity and income will empower York Factory to improve our communities' socioeconomic conditions, 8 9 which will ultimately benefit generations to come. 10 York Factory First Nation chose to 11 support Keeyask, not just so our people could benefit 12 from employment, business, and investments 13 opportunities. York Factory chose to become a partner 14 so we could have a voice in how the project is 15 developed and managed. We want to be on the inside and 16 influence the project. 17 As In -- Ininimowin it is essential that 18 we care for Askiy, which is our Cree word for the whole 19 of the land, water, plants, people, and animals, and all the creatures. 20 21 If Keeyask is approved and goes forward 22 we will continue to work with our partners applying our 23 values, principles, and perspectives to development and 24 operation of the project. York Factory will also work 25 with our partners to heal, rebuild, and strengthen

3560 trustworthy relationships through processes, programs, 1 and decision-making throughout the life of the Keeyask 2 project and partnership. 3 We have entered into the partnership 4 5 insisting on a long-term ongoing commitment to healing, 6 reconciliation, mutual respect, and self-determination. We intend to sustain our Cree values, customs, and 7 traditions in the process. 8 9 The planning and negotiation of Keeyask 10 has been a long process, more than twelve (12) years. Members are patient -- or impatient to realize the 11 12 benefits from the -- the Hydro development. But we 13 know that Keeyask will not solve all the challenges and 14 obstacles we face as a community. 15 The Keeyask project also presents new problems and challenges. The benefits do not come 16 17 without consequences; we know that. But we are ready 18 for those challenges to take and opportunities before Thank you. 19 us. 20 21 (BRIEF PAUSE) 22 23 MR. DOUGLAS BEDFORD: Mr. Spence is 24 going to refer to a map, which I did give Mr. Simonsen 25 before we commenced this morning. So this would be an

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3561 appropriate time, Mr. Simonsen, if we can enter the map 1 that's being presented by Cree Nation partners as 2 Exhibit MH number 130. And I'll ask one (1) of my 3 colleagues to hand out paper copies. Thank you. 4 5 6 --- EXHIBIT NO. MH-130: Мар 7 8 MR. VICTOR SPENCE: Thank you. 9 MR. DOUGLAS BEDFORD: Victor, if we'll 10 -- we'll just -- a moment while the maps are 11 distributed. And once you see that that's been 12 completed please begin. 13 14 (BRIEF PAUSE) 15 16 THE CHAIRPERSON: Mr. Spence, I believe 17 everybody has a copy. 18 MR. VICTOR SPENCE: Good morning, 19 panel, ladies and gentleman. My name is Victor Spence. 20 I'm here to -- on behalf of the Cree Nation partners, 21 Tataskweyak Cree Nation and War Lake First Nation. We're here to talk about the socio-22 23 economics and the opportunity that we -- we arrive from 24 development within our immediate resource area. I've 25 been involved with Manitoba Hydro hydro-electric

3562 development for the last thirty (30) years of my life. 1 There has been many battles along the way. 2 3 I'm here -- a relationship bor -- based on respect and our nations and members' rights --4 5 rights given from Kichimanitou in regards to our 6 placement on Askiy. 7 We are people of the land. We are hunters and we are gatherers. We also have rights 8 under 1992 Constitution, Section 35. We have rights 9 based on treaties. We have rights that we have fought 10 hard for under a modern day treaty with the federal 11 12 government, the provincial government, and Manitoba 13 Hydro in relation to development and impacts on us as 14 people. 15 We've heard of the CRD, Churchill River 16 Diversion, back in 1977; LWR, Lake Winnipeg Regulation. 17 There's two (2) systems: Lake Winnipeq, the Nelson 18 River, Kichesippi. And then there was the -- the Churchill River Diversion. 19 20 In order to taste those waters our 21 people had to travel and make many portages. And we 22 enjoyed the bounties of that river. Our fathers, our 23 grandfathers work hard. They enjoyed the bounties of 24 that system. Nelson River, where our people choose to 25 live back in the '17,'16, '14, as far back as we can

3563 remember that time allows memory to be. After that, we 1 say millennia. 2 3 The LWR/CRD, we are right at the confluence, TCN, Split Lake. We are affected by both 4 5 systems. It changed how we use the lands and the 6 waters. We are proud people, very proud. In 1957, 7 they built Kelsey, the first development. I was born a year before that, 1956. 8 9 In 1977, there was a referendum among the nations of the five (5) nations, the Northern Flood 10 Agreement: York Factory, Split Lake, Norway House, 11 12 Cross Lake, and Nelson House, the Northern Flood 13 Agreement. 14 The waters were released that spring, 15 '77. That was the first time our members saw so much water on top of the ice that spring. I was married 16 17 that April. And it changed our way of -- our 18 perspective on Mother Earth. There was a reason TCN 19 members, our forefathers, choose Split Lake. It was 20 bountiful; beavers, muskrats, fish, birds, migratory 21 birds. The land was beautiful, pristine; development 22 changed that. 23 We negotiated agreements with Manitoba 24 Hydro. The 1977 agreement and then we had the 1992 25 agreement which is basically implementing the 1977

3564 agreement. After that we had the 1996 agreement, and 1 then we have the 1998 agreement, 19 -- 2008, the 2 adverse effects agreement, and the JKDA, Joint Gull 3 (sic) Development Agreement. 4 5 The path that our members choose was not 6 an easy decision to make. It was made jointly with our 7 Elders, our members, and with our children in mind to provide hope. You all watch news, Kattawapiskak in 8 9 Ontario, where a Chief passed it in regards to -- to deal with housing and other needs of the people -- her 10 people. We, too, as a nation have quite a story to 11 12 tell of need, of treaty rights not honoured. 13 We came upon a vision that Manitoba 14 Hydro had, that we could jointly walk together to develop a new development, Keeyask. We were given the 15 16 opportunity to assess this development, how it could help us as people. Not just on the economic side of 17 18 how much free power, or how much power that will be 19 generated from this development, but how it could hep 20 us as people to deal with housing, education, health 21 care, to take care of our Elders. 22 The treaty rights promise to our Elders 23 are being eroded, constantly attacked by government. 24 They create laws and enact acts that somehow diminishes 25 the meanings of the words in our agreements. We had an

opportunity under Keeyask. Again, I take the 1 2 opportunity to thank -- maybe I'm to name a -- an individual, the former CEO and President, for having a 3 vision to involve the Nations in this new development; 4 a vision of walking together. 5 6 It is the wish of this Tataskweyak Cree 7 Nation that this vi -- vision be continued, not obstructed. I have a whole text here that I could 8 9 read, but the words of my people are in my heart. It 10 hurts many times when we chose as people a path where 11 somehow there are others that seems to question how an 12 Indian should think, how an Aboriginal should talk and 13 make choices for their own people. 14 We chose as a nation, a sovereign 15 nation, a members of a nation. We are not merely 16 objects within the hydro operational system. We are people. We cry. We feel pain. We have needs to 17 18 better housing, better education, better healthcare 19 services for our people, our Elders, our youth. 20 That is why TCN choose the path it did 21 in regards to do this development. If it was based on economics, solos -- just solely on economic, we would 22 23 have said, No, to Keeyask or any development, but it 24 gave more. It provides hope. An opportunity to say, 25 We are involved. We continue to be involved. There's

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a new vision. 1 2 The path that we walk together as four (4) Nations on this development is really caring, 3 4 caring for our people. And we also understand that we 5 are spiritual in the sense of we believe that all 6 things are alive as our forefathers has instilled in 7 us; the trees, the animals have spirits. They must be respected, or else we will -- we will be cursed. 8 9 We need to have a ceremony in terms of a 10 healing ceremony; that has to be recognized and 11 respected by the non-Aboriginal society. We need 12 healing in our communities. Our people have rights to 13 choose yes to development, or no to development; that 14 That opportunity was provided. Excuse me. was given. 15 We had over two thousand (2,000) meetings to deal with 16 the path we choose in relation to Keeyask development. 17 In closing, I'm -- I refer to the 18 Northern -- Northern Flood Agreement, the 1977 19 agreement. The 1992 agreement, modern day treaties 20 with Canada federal government, provincial government, 21 and the Developer, the Corporation, Manitoba Hydro. I 22 spoke on Keeyask at Tataskweyak that support Keeyask 23 development. 24 We took part in it. We participated in 25 it. And in our 1992 agreement, modern day treaty, it

speaks about Conawapa. As a nation, currently 75 1 percent of the development, hydro electric development, 2 would -- that provides energy and income that the 3 4 southerners enjoy comes from our resource management 5 area, our territory. The 1992 agreement -- agreement provides 6 us a -- an opportunity and gives us rights. A right to 7 be involved and consulted through -- and participate 8 meaningfully on Conawapa. No one, no one will take 9 that right away from TCN, not Manitoba Hydro, not the 10 governments, no one. We stand firm on that right. 11 We 12 will be there until -- unless we are taken seriously on 13 Conawapa, we will -- we will be there, because it's --14 it's governed by the 1992 agreement, a modern day 15 treaty. At this time we do not understand. 16 We are not at the table in regards to Manitoba on 17 18 I am fairly certain that we will be provided Conawapa. 19 that opportunity and as these come forward months come, years come, we will be there. But we will be there in 20 21 the sense it'll be a meaningful process. With that, 22 TCN supports the PDP, Preferred Development Plan of 23 Manitoba Hydro. And we look forward to the challenges 24 and the path. 25 With that, I would like to point to the

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1	map.
2	
3	(BRIEF PAUSE)
4	
5	MR. VICTOR SPENCE: As you can see, the
6	four (4) nations that are at the at the partnership,
7	Tataskweyak, War Lake, Fox Lake, and York Factory are
8	within this immediate vicinity of the development of
9	Hydro. The next two (2) are going to be there within
10	that, Conawapa. We're all affected.
11	Again, in closing, I'd I'll say that
12	Tataskweyak supports the the Preferred Development
13	Plan. Ekosi.
14	
15	(BRIEF PAUSE)
16	
17	THE CHAIRPERSON: Thank you very much,
18	Mr. Spence. The panel has no questions. I'm looking
19	at the clock and I wonder if it would be an appropriate
20	time to take a break? I would suggest that we take
21	fifteen (15) for coffee and then we'll see you at five
22	after 11:00.
23	MR. DOUGLAS BEDFORD: Thank you. I
24	have one (1) matter, Mr. Gosselin, that will take less
25	than a minute. I was remiss this morning in not

1 drawing your attention and that of your colleagues to
2 yet another individual who's in the public gallery this
3 morning. Mr. Joe Keeper has been observing proceedings
4 this morning.

5 Those of you who don't know Mr. Keeper 6 and his history in this province, I can summarize very 7 quickly by telling you he was a central figure in the 8 negotiation of the Northern Flood Agreement in the 9 1970s. He was a founding member of the Manitoba Metis 10 Federation and of the Manitoba Indian Brotherhood.

11 I have had the pleasure of working with 12 Mr. Keeper for a number of years. I know that he is a 13 very modest man and he's no doubt slightly embarrassed 14 that I've drawn people's attention to his presence 15 here. But one (1) aspect of your hearing is about 16 Northern Manitoba and development in Northern Manitoba, 17 and a man of his stature deserves to be recognized at a 18 proceeding such as this given the nature of some of the 19 evidence that you're hearing.

20 So, thank you for allowing me a moment 21 to draw your attention to Mr. Keeper's presence. And 22 we should proceed with our break. Thank you. 23 24 --- Upon recessing at 10:52 a.m. 25 --- Upon resuming at 11:11 a.m.

3570 MR. DOUGLAS BEDFORD: 1 As we can all see, you have surmounted your insurmountable 2 difficulty. We are now going to show a video that was 3 made for the Keeyask Project essentially by our Cree 4 5 Nation partners. The video takes approximately twenty 6 (20) minutes. For the benefit of those who are not 7 aware of it, I understand that we are going to trespass 8 9 modestly on the lunch hour and we will run until 12:30. 10 That will allow my witnesses to put in virtually all of 11 the evidence that we had planned for the morning. 12 Because of events that we opened with this morning we 13 will require, I believe, thirty (30) minutes after 14 lunch to complete testimony and it will be Dr. Shaffer 15 this afternoon immediately after lunch. 16 And Mr. Wojczynski concludes our evidence in direct, and he'll follow for a short period 17 18 of time Dr. Shaffer's evidence. But when the video is 19 complete, we will hear from Ms. Pachal, from Mr.

20 Wojczynski, and try and conclude with Mr. -- well, Mr.
21 Page briefly and then Mr. Brandson, and then break for
22 lunch at 12:30. Thank you.

The video which you are about to see will be marked on the record as Exhibit MH-131, and I am dependent, I believe, on someone else to actually

3571 start the video. 1 2 3 --- EXHIBIT NO. MH-131: Video 4 5 (VIDEO PLAYED) 6 (VIDEO CONCLUDED) 7 CONTINUED BY MR. DOUGLAS BEDFORD: 8 9 MR. DOUGLAS BEDFORD: We would now like to return to Exhibit MH-129, the second part of it. So 10 11 it's Exhibit 129-2. And this is the presentation that 12 was filed, I believe, yesterday. And it's now Ms. 13 Shawna Pachal's turn to take us through her particular 14 area of interest. 15 MS. SHAWNA PACHAL: Thank you, Doug. 16 I'm excited to be here today. It's always a tough act 17 to follow my Cree partners and their video. And I've -18 - in -- in respect of the time, I've dramatically 19 shortened my presentation. So I'm going to just try 20 and focus on the highlights. And hopefully, if people 21 have any questions or things that I've missed, they'll 22 -- they'll ask. 23 So I'll be talking about the Preferred 24 Development Plan, our overall approach, the benefits, 25 our environmental assessment process, and our adverse

effects agreements. 1 2 So Manitoba Hydro, as you've heard, prior to Wuskwatim planned and developed projects in a 3 much different way than we do today. Our past 4 5 projects, while in line with contemporary practices of 6 the time and consistent with government requirements, involved much less consultation than would be 7 considered acceptable today and considerable --8 9 considerably less upfront planning with respect to environmental concerns. 10 11 And as a result, environmental effects 12 were not always fully understood in advance. And 13 related avoidance, mitigation, and enhancement measures were not always identified and implemented in advance 14 of project construction, and nor were they typically 15 included in the capital project estimates. 16 17 The planning and development processes 18 for today's projects are very different, as you've 19 heard many times this morning. The project planning process involves early and extensive engagement with 20 21 communities in the vicinities of these projects, 22 particularly the Aboriginal communities. And there is 23 a concerted effort to prevent and reduce as much as possible potential impacts through improved project 24 25 design and implementation of project mitigation and

1 community-based programming.

Efforts are also made to enhance project benefits as much as possible, especially for local communities, through measures like income oppor -opportunities, training, employment, and business opportunities.

The cost for all of these activities are 7 estimated, and they are incorporated into our long-term 8 9 capital costs estimates so that the financial implications of a project are well understood upfront, 10 11 as well as its environmental and social implications. 12 Manitoba Hydro takes very seriously the 13 need to develop strong working relationships with Aboriginal communities affected by our developments, 14 15 both past and present. For example, both Hydro and the lower Nelson Cree Nations who will be affected by 16 future generation projects in the Preferred Development 17 18 Plan are working hard to develop a stronger 19 relationship based on trust and respect and the desire or the 750 megawatt interconnection, may afford the opp 20 21 to develop these projects in a mutually beneficial 22 manner. There is no doubt this is a challenge as 23 you've heard from our partners, given their experience 24 with previous hydroelectric development. 25 I'm going to talk a little bit about

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3574 some of the benefits associated with the projects in 1 our Preferred Development Plan, both the generation and 2 the transmission. First of all, I want to start by 3 talking about business opportunities. 4 5 Throughout project negotiations, 6 Manitoba Hydro and our partners work to identify 7 specific business opportunities that match their 8 communities' capacities and interest so that they can 9 develop the business capacity that serves them long 10 term. 11 The scope of work involved in project 12 DNCs further build on the capacity of community 13 businesses, and the experience and capacity gained from 14 carrying out the contract should enable the partner 15 businesses involved to compete for similar contracts on 16 other projects while Keeyask and Cona -- Conawapa are 17 underway, and then after they are complete. 18 Most DNCs are carried out as joint 19 ventures between a partner First Nation owned business and a non First Nation owned business with extensive 20 21 experience and a solid track record. A qualification 22 system has been agreed to that ensures that these 23 contracts are just not flow-throughs, but that the 24 First Nations have a meaningful role as 50/50 25 shareholders with non partner -- non First Nation

1 partners.

2 To the extent that the joint venture can perform well and generate profits, businesses could 3 expand their equity base, invest in capital projects, 4 5 or choose to grow. The DNCs allow for direct member 6 hiring from the partner First Nations as a special measure agreed to in the op -- within the operation of 7 the Burntwood Nelson Agreement, which governs the 8 9 hiring of our northern generation projects. This 10 ensures that members do not have to compete with any 11 other individuals to access these jobs on the 12 generation projects.

13 In the case of Wuskwatim, a total of two 14 hundred and twenty-nine (229) Nisichawayasihk Cree 15 Nation members were hired to work on direct negotiated 16 contracts, the DNCs, throughout the duration of the 17 project. As individuals could be hired more than once, 18 this represented a total of four hundred and twenty-19 four (424) Nisichawayasihk Cree Nation hires on the various contracts. 20 21 For Keeyask, based on July 2007 dollars, 22 there are business opportunities through direct 23 negotiated contracts for a minimum aggregate dollar

24 value of 203 million for qualified partner First Nation

25 business or joint venture partnerships. For Keeyask,

contractors such as the general civil contractor are 1 provided with information about Keeyask Cree Nation 2 businesses which could result in potential 3 subcontracting opportunities being made available via 4 5 an open tendering process. 6 Discussions are currently underway 7 regarding Conawapa business opportunities. Manitoba Hydro is still considering its approach in this regard 8 9 in light of Wuskwatim and Keeyask experiences, and we are continually learning and improving. 10 11 Transmission business opportunities have 12 the same desired result as those of generation projects. 13 There is a desire to ensure that the end 14 result is local employment and capacity building. The 15 type and amount of construction and clearing work is 16 influenced by factors such as location, terrain, and type of line. As a result of that, the business 17 18 opportunities for each transmission project can vary, 19 and we look at those on a case-by-case basis. 20 Transmission projects, like the North-21 South upgrades, ortunity for business development in the form of tendered contracts and direct negotiated 22 23 contracts for qualified Aboriginal businesses or joint 24 venture partnerships. Upon determination of the final 25 routes, the resulting opportunities will be made

1 available.

In terms of training opportunities. With regard to training, there is both pre-project training and on-the-job training for generation projects. The goal of the pre-project training program is to build capacity within the First Nations and the Aboriginal communities at large so members are job ready when construction starts.

9 There has already been a \$60 million 10 pre-project training initiative that trained over two 11 thousand (2,000) norther Aboriginal residents for 12 employment on Wuskwatim, Keeyask, and within other 13 industries. The participating First Nations and 14 Aboriginal organizations in this initiative were 15 Nisichawayasihk Cree Nation, Tataskweyak Cree Nation, 16 York Factory First Nation, Fox Lake Cree Nation, the Manitoba Metis Federation, and MKO. 17

18 The training began in 2001 and spanned 19 nearly a decade. Members of these First Nations and 20 Aboriginal organizations received educational upgrading 21 and training for designated and non-designated trades, 22 as well as construction support occ -- occupations. 23 What was unique about this training initiative was that 24 it was designed, developed, and implemented by the 25 First Nations and the Aboriginal organizations

3578 themselves, and it was one (1) of the largest 1 initiatives of its kind ever in Canada. 2 3 It is expected that the Conawapa project will also have a pre-project training program that 4 5 focusses on continued training in designated trades and 6 Manitoba Hydro will be working with the First Nations 7 in the vicinity of the project to identify the training 8 opportunities. On-the-job training programs provide 9 further training opportunities during the construction 10 project. 11 Under the various contracts northern 12 Aboriginal folks will be able to develop varied 13 employment skills in different areas including 14 management training, apprenticeship, and general 15 labour. Hours of actual work experience can be attributed towards their provincial certification 16 17 requirements. 18 And as the partner First Nations reside 19 within the first hiring tier of the Burntwood/Nelson 20 agreement, they have first preference for on-the-job 21 training opportunities, and the on-the-job training is 22 a fundamental component of Keeyask and Conawapa's 23 overall employment framework. 24 Transmission projects may take place 25 over a long distance and because of that, the amount of

training and employment available in one (1) area is 1 2 somewhat limited. These training opportunities are driven by similar factors as I described under business 3 opportunities. Recent training opportunities 4 5 associated with transmission have included heavy 6 equipment operator training, as well as on-the-job 7 training. And in addition, Manitoba Hydro will be offering tower assembly training in the near future. 8 9 And it's expected that these types of opportunities would be made available on projects like the North-10 11 South Upgrade and 750 megawatt interconnections. 12 In terms of employment, the Corporation

13 has an overall objective of maximizing employment of 14 northern Aboriginal residents. Construction of the 15 Keeyask and Conawapa generating station is projected to 16 require over nine thousand (9,000) direct person years 17 of employment. There'll be a range of opportunities in 18 both the designated, non-designated, and support 19 occupations.

20 On the Wuskwatim project Aboriginal 21 workers made up 40 percent of the project's total six 22 thousand (6,000) hires. In terms of the level of work 23 almost half of the Aboriginal hires were carpenters, 24 iron workers, electricians, equipment operators, and 25 other skilled trades. Although Conawapa's government

structure is still -- or Conawapa is still to be
 determined, we will have similar employment objectives
 related to Conawapa.

Manitoba Hydro and the First Nations are 4 5 focussed on increasing the number of members employed 6 in the Corporation's ongoing operations as well. Under 7 the Keeyask Agreement there is a twenty (20) year target of a hundred and eighty-two (182) jobs 8 9 consisting of a hundred (100) TCN members, ten (10) War Lake members, thirty-six (36) York Factory members, and 10 11 thirty-six (36) Fox Lake members. And that's within 12 our operational jobs workforce. So we have about 13 sixty-four hundred (6,400) employees. And those are a 14 hundred and eighty-two jobs (182) within the overall 15 workforce.

16 This target of a hundred and eighty-two 17 (182) has a twenty (20) year time frame. And Hydro and 18 the partners work under something called the 19 Operational Jobs Working Groups. An initial five (5) 20 year work plan was developed, and is currently being 21 implemented. Hydro reimburses the reasonable costs of 22 each First Nation partner to participate in this 23 initiative, and over the twenty (20) year period, a 24 total of \$20 million has been allocated to this 25 initiative for the ongoing jobs training.

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Generally speaking, transmission 1 construction employment will be driven by the 2 transmission line agreement, which dictates that all 3 non-supervisory staff for the project must be new 4 5 hires. Hiring preference -- preferences are put into 6 each northern contract, and will vary dependent upon 7 location of the project and the resulting contract. 8 For northern projects, first preference 9 hiring would be Northern Aboriginals. There is 10 currently no policy for the south, and these are managed on a case-by-case basis. However, typically, 11 12 Manitoba Hydro looks to create opportunities for local residents and businesses on these transmission 13 14 projects. 15 And the last main area of the benefits 16 opportunities, I want to talk a little bit about income 17 opportunities. The Keeyask Hydro Power Limited 18 Partnership will own the generation project under the 19 terms outlined in the JKDA. Hydro and the general 20 partner will own 75 percent of the partnership, and the 21 First Nations, through their respective entities, will 22 have the opportunity to own up to the remaining 25 23 percent. 24 The 25 percent common equity is divided 25 as follows: 15 percent for the Cree Nation partners; 5

3582 percent for each of York Factory and Fox Lake. The 1 potential ownership will generate future income streams 2 for these communities. 3 Keeyask provides for two (2) investment 4 5 options for the Keeyask Cree Nations: common and 6 preferred. As a common unit partner the First Nation would receive annual distributions based on its 7 proportionate share of distributable cash after equity 8 9 loan repayments. 10 A First Nation may alternatively elect 11 to invest in the partnership as a preferred unit holder 12 to limit its risk and be eligible to receive 13 distributions based on adjusted gross revenue. The partner First Nations, not Manitoba Hydro, will manage 14 15 the use of these income distributions received from 16 their investment entity's interest in Keeyask. 17 Although the ownership structure has not 18 been finalized for Conawapa, Manitoba Hydro is 19 committed to providing the First Nations in the 20 vicinity of the project with long-term sustainable 21 benefits which will include some form of a project 22 income benefit. 23 In terms of transmission, Manitoba Hydro 24 has the authority under the Act to structure 25 transmission arrangements. We've used that authority

3583 to structure those arrangements in the best interests 1 of Manitoba ratepayers, and as such Manitoba Hydro 2 retains 100 percent ownership of all transmission 3 assets in Manitoba. 4 5 In terms of governance of the generation 6 projects, Hydro is commi -- committed to meaningful and 7 long-term participation of the in-vicinity First Nations in all phases of the generation projects: 8 9 planning, construction, and operations. 10 The Keeyask project, as was the 11 Wuskwatim project, is an innovative model for First 12 Nation and corporate Partnership and has been 13 specifically and locally designed to ensure the partner First Nations have a ongoing role in the governance of 14 15 the project. The partner First Nations will also play 16 a major role in the Environmental Protection Plans, 17 programs which include ongoing monitoring programs that 18 incorporate the use of Aboriginal traditional 19 knowledge. 20 I want to talk a little bit now about 21 the planning and environmental assessment process. 22 Working with stakeholders, we approach the planning and 23 environmental assessment process as a means to plan and 24 design the best projects possible. Ultimately, the 25 overall goal for planning and environmental assessment

1 processes is to plan an assess the project in a way 2 that leads to the best possible plan, environmentally 3 and socially, based on rigorous and understandable 4 methods.

5 In the case of both Keeyask and 6 Conawapa, this is being accomplished through western scientific studies and Aboriginal traditional 7 knowledge. Both ways of knowing are valued equally 8 9 throughout the process that involves assessing the 10 project in two (2) ways, one (1) based on the EIS 11 guidelines issued by regulators and another based on 12 the Cree world view.

Both assessments are considered in the planning process, including the development of mitigation measures, and both are filed with regulators for their consideration.

17 In terms of public engagement, we've had 18 a comprehensive program that has sought input from all 19 potentially affected and interested First Nations 20 communities and organizations throughout Manitoba. The 21 outcomes of this program were used to inform the key 22 topics of study in the environmental assessments, the 23 potential effects of the project, and the nature of 24 mitigation measures. 25 Transmission projects, like the Keeyask

Transmission Project and the 750 Megawatt 1 Interconnection Project, take a similar approach. 2 Α comprehensive site selection and environmental 3 assessment process is implemented by Manitoba Hydro to 4 5 determine an optimal route for transmission lines based 6 on a variety of possible options. 7 This process involves extensive public engagement over a large study area as planners work 8 9 with those potentially affected by the line to find a route that balances environmental, social, and economic 10 11 factors. Particular efforts are made to route the 12 project in a manner that invor -- avoids important and sensitive areas based on scientific studies and the 13 knowledge of Aboriginal and other local users in the 14 15 area. 16 In all cases, the final environmental assessments focus heavily on the potential implication 17 18 -- implications of these projects to people, water, and 19 land. The nature and extent of any project effects varies depending on the project, its location, the 20 21 local environment, and does differ between generation and transmission projects within the Preferred 22 23 Development Plan. 24 Throughout the planning and assessment 25 process efforts are made to understand the implications

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3586 of a project for people, how they may benefit from the 1 project and how they may be impacted. Typically, a 2 comprehensive socio-economic assessment is undertaken 3 that includes a consideration of potential effects to a 4 5 wide range of topics linked to the economy, community 6 infrastructures, services, personal, family, and 7 community life, as well as heritage resources. Economic effects are most often linked 8 9 to how the project is implemented, available income opportunities, training, employment preferences, and 10 business opportunities and how they may be enhanced to 11 12 offer the greatest possible benefit. When considering 13 the potential adverse effects of a project to people 14 key areas of focus include: resource use, community 15 infrastructure and services, public safety, health, and 16 heritage resources. 17 Efforts are made to understand possible 18 project effects and to determine whether they can be 19 avoided or minimized through changes to project design 20 or mitigated and are offset through project-specific 21 measures. 22 Most major developments, like those in 23 the -- in the proposed Preferred Development Plan do 24 have an affect on resource use, domestic, commercial,

25 and recreational. In northern Manitoba, where both

Keeyask and Conawapa are proposed, resource-use 1 activities primarily including hunting, trapping, 2 fishing, and gathering and are linked to the exercise 3 of customs, practices, and traditions integral to 4 5 Aboriginal culture and identity. 6 In the case of Keeyask, domestic resource-use activities have been identified throughout 7 the project area and the ability to continue practising 8 9 these activities is being accommodated through a number of mitigation and offsetting measures. 10 11 Lost income associated with commercial 12 activities, for example, losses experienced by 13 commercial trappers and fishers, will be paid directly to individual commercial resource users for both 14 15 Keeyask transmission and generation projects. 16 In the case of Keeyask, it is anticipated that commercial losses will be experienced 17 18 in four (4) trap lines, and by a single fisher who 19 operates a small, local operation downstream of 20 Keeyask. It is anticipated that the nature of the 21 effects experienced, and the types of mitigation and 22 offsetting measures implemented for resource use will 23 be similar for the Conawapa generation project. 24 In the case of the interconnection 25 project, resource-use activities include common

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1	resource harvesting, like forestry and mining,
2	agricultural development, commercial tourism, and
3	domestic use. Route selection considers domestic and
4	commercial resource use in selecting a route that
5	minimizes affects on people and the environment.
6	Environmental assessment is conducted on the final
7	route selected, and appropriate mitigation measures
8	specified.
9	Mitigation measures could include
10	compensation for commercial losses, landowner
11	compensation under the Landowner Compensation Policy,
12	and appropriate access management measures to protect
13	wildlife populations.
14	Like all major developments with large
15	construction workforce, public safety, especially in
16	Gillam, has emerged as a major concern during the
17	course of our Keeyask environmental assessment process.
18	This was concern was linked to the presence of a
19	large well-paid workforce that will be resident at the
20	Keeyask camp, and the potential for some of those
21	members of the workforce to interact inappropriately
22	with local residents. These concerns were compounded
23	by the likelihood of cumulative effects with other
24	potential future projects in the Gillam area.
25	It is impossible to accurately predict

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the nature and number of any negative occurrences, so a 1 decision was made to focus planning efforts on the 2 implementation of measures at the camp and in Gillam to 3 4 prevent such occurrences, and to respond to them 5 quickly. These measures include the availability of a 6 recreational facility including a licenced lounge at 7 the campsite, transportation to and from the site to discourage personal vehicle use, on-site employee 8 9 counselling including access to drug and alcohol and financial counselling, and cultural awareness training 10 11 for all workers that is designed and delivered by local 12 Cree Nations.

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13 In Gillam, Karen mentioned a worker interaction committee has been established with 14 15 representatives from the Town of Gillam, Fox Lake, 16 Manitoba Hydro, and relevant service organizations 17 including the health authority and the RCMP. This 18 committee is working to determine appropriate 19 community-based measures that can be implemented to 20 prevent and respond to issues or concerns about any 21 major occurrences.

While public safety is also a concern in southern Manitoba, and will be considered as part of assessing the 750 megawatt interconnection project, it's of less concern than it is in northern Manitoba

3590 because work typically takes place over a shorter time 1 period and with a considerably smaller workforce. 2 3 Finally, the potential effects of a project to health are considered in the context of 4 5 undertaking the assessment process. Health is affected 6 by a number of factors, and determinates of health approach that consider things such as income, housing, 7 the availability of country foods, and the presence or 8 9 absence of disease is undertaken as part of our project 10 planning. 11 Consideration is also given to available 12 health programming in local communities, and the 13 ability of service providers to respond to any -- any 14 incremental changes brought on by the new developments. 15 During the course of Keeyask planning, a concern was 16 raised about the ability of service providers in the 17 local Gillam area to respond to possible concerns 18 related to an increase in such things as accidents, 19 addictions, and infectious diseases, and basic health services. 20 21 Again, a concern about the potential for cumulative effects, and other possible future 22 23 developments was also raised. To address these 24 concerns, on-site counselling and a twenty-four (24) 25 hour EMS service are available at the camp. Manitoba

3591 Hydro is working directly with the northern regional 1 health authority to help them plan for the influx of 2 workers into the region as a result of the upcoming 3 developments. 4 5 Given the size and nature of the 6 construction workforce associated with the 750 megawatt interconnection project, it is anticipated at this time 7 that available health services in southern Manitoba 8 9 will be able to accommodate any temporary increase in construction workers. 10 11 Keeyask and Conawapa also have the 12 potential to affect health through an accumulation in 13 methyl mercury in fish in the reservoir as a result of 14 flooding. This is especially the case for Keeyask, 15 given the extent of the flooding. Here it is 16 anticipated that mercury levels in fish will increase 17 and peak within five (5) to seven (7) years following 18 impoundment. They will gradually decrease to pre-19 project levels, roughly over the first thirty (30) 20 years of project operation. 21 Levels of mercury will vary by fish Those higher in the food chain are more prone 22 species. 23 to the accumulation of methyl mercury, and consumers 24 will need to exercise caution in their intake. То 25 address this concern, a multilateral group on mercury

and human health was formed as part of the Keeyask EIS
 assessment process that involved Manitoba Hydro, the
 Keeyask Cree Nations, and international experts in
 assessing potential human health risks associated with
 mercury in fish consumption.

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6 They have recommended that we implement 7 strategies and programs that are expected to allow 8 residents the opportunity to continue safely eating 9 fish throughout the course of the Keeyask project. 10 While the assessment for Conawapa is not yet complete, 11 it's anticipated that mercury will -- will be much less 12 of a concern, given the limited amount of project 13 flooding and the low levels of vegetation within the areas to be flooded. 14

15 Heritage resources are another area of 16 concern. They provide direct evidence of people's spiritual, physical, and emotional relationship and 17 18 connection to the -- an area. Tangible heritage 19 resources, that is the physical objects that represent 20 heritage, are protected under Manitoba's Heritage 21 Resources Act, and are an important component of the 22 environmental assessment process for new generation and 23 transmission projects.

24 Extensive programs are undertaken to25 identify heritage resources that a project may disturb

3593 during construction, or in the case of a generate -- of 1 generating through flooding. These programs identify 2 sites that will be salvaged or monitored to enable the 3 long-term preservation of the artifacts. 4 5 For each of the projects in the 6 Preferred Development Plan, a Heritage Resources --Resource Protection Plan is drafted to safeguard 7 heritage resources, and to appropriately manage human 8 9 remains that may be discovered or disturbed during the 10 development of a project. 11 I want to talk a little bit about some 12 of the environmental aspects now, quickly. 13 Understanding the effects to the aquatic environment is 14 especially important for generation projects, and is a 15 key focus of the assessments for both Keeyask and 16 Conawapa. Aquatic studies on both project areas have been underway for over a decade, with special attention 17 18 being paid to sensitive species and habitats. 19 In the case of Keeyask, this has meant a 20 particular focus on lake sturgeon, a specie that has experienced substantial declines in the last hundred 21 22 years throughout the region as a result of over 23 exploitation and, to a lesser extent, hydroelectric 24 development. In particular, sturgeon populations in 25 the Kelsey to Kettle reach of the river are very low,

and the current low numbers are limiting the potential
 for recovery. And in some areas, notably Stevens Lake,
 it is unlikely that the population presently is self sustaining.

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5 To address this existing condition, and the possible incremental effects of Keeyask, the 6 7 partnership has committed to a large scale sturgeon stocking program to bring back a self-sustaining 8 9 population of sturgeon in this reach of the river. In 10 addition to this stocking program, efforts will be taken to provide habitat for all stages of sturgeon in 11 12 this reach of the river as part of Keeyask development. 13 As a result of these measures, sturgeon 14 populations in this stretch of the river will be 15 enhanced, and the overall effect of the project will be 16 positive for this important species. In other words, we expect sturgeon will be better off with the Keeyask 17 18 project than without it.

In all cases, long-term monitoring programs will be in place to determine the actual project effects and to assess the effectiveness of mitigation measures and the need for any adaptive management measures. The EIS for Conawapa also includes -- will include a comprehensive assessment for the aquatic environment.

Potential effects to the aquatic 1 2 environment are also considered as part of transmission projects, including for the Keeyask transmission 3 project and the 750 megawatt interconnection. Because 4 5 these projects are not physically located within 6 waterways, their effects in this regard are quite 7 limited and, in most cases, negligible. 8 To understand our project's impact on 9 the terrestrial environment, the assessment teams begin with the smallest components of the land environment, 10 11 such as soils, invertebrates, and individual plants and 12 work from here to understand broad concepts, like 13 ecosystem diversity, interactions and long-term 14 ecosystem health. These concepts are used to 15 understand potential changes in wetlands, terrestrial 16 plant communities and long-term habitat changes for 17 important species, like caribou and moose, furbur --18 fur-bearers and various bird species, including 19 waterfowl, raptors, and songbirds. 20 In the case of Keeyask, particular 21 attention has been paid to understanding the potential 22 effects of the project on the four (4) different 23 caribou herds that use the Keeyask region. 24 In the case of transmission projects, 25 considerable effort is spent to understand and mitigate

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3596 potential terrestrial effects given the linear nature 1 of these projects and the potential for long line 2 lengths to fragment important habitat types that lead 3 to population change. 4 5 Consideration is also given to the 6 possibility of bird wire strikes. And devices, such as 7 bird diverters, are a common mitigation approach. Vegetation management plans consider ways to mini --8 9 minimize habitat damage by appropriate methods to 10 maintain low shrub vegetation. 11 In addition, where possible, winter 12 construction will also help to mitigate impacts to 13 vegetation and habitat. In many cases, it's possible 14 to route the lines in such a way that effects to 15 sensitive or important species or habitats can be 16 minimized, for example, routing to avoid disturbances 17 to important caribou calving areas. 18 While moose and caribou are key species 19 considered in northern projects, for the 750 megawatt 20 interconnection project it appears that elk will be the 21 population that will be given the most consideration in 22 the route selection process. 23 And finally, on terms of adverse effects 24 agreements, through the course of project planning 25 efforts are made to identify appropriate avoidance

1 mitigating -- mitigation or offsetting measures to 2 eliminate, reduce, or manage potential adverse effects 3 in some circumstances. And depending on the nature of 4 the residual adverse effects, compensation may be 5 provided to address residual adverse effects that 6 cannot be mitigated.

7 In the case of the Keeyask generation project, Hydro and each of the Keeyask partners have 8 9 negotiated adverse effects agreements to address unavoidable residual adverse effects. The adverse 10 11 effects agreements were signed in 2009 prior to the 12 construction of the project and, as you've heard, were 13 validated through separate community referendum processes. This represents a departure from past 14 15 projects that were built first and compensation and 16 mitigation measures were determined after the fact. 17 Typically, comparable adverse effects 18 agreements are not negotiated for transmission projects 19 because transmission impacts can be either avoided or 20 minimized during the project's routing and assessment 21 process. Any effects that are not avoided through 22 routing can typically be managed through the 23 implementation of project-related mitigation measures 24 and associated monitoring of these measures.

25 Much attention is being paid to planning

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3598 for the Preferred Development Plan in a manner that 1 maximizes benefits to local communities and that avoids 2 or minimizes adverse effects. These projects are being 3 planned and will be undertaken in a responsible and 4 5 proactive manner. 6 The Preferred Development Plan provides particular benefits for northern Aboriginal communities 7 and residents in a region where opportunities for 8 9 economic development have traditionally been limited. 10 Detailed and thorough environmental 11 assessments are undertaken for all developments in the 12 Preferred Development Plan, and the outcomes of these 13 processes will be rigorously tested through federal and provincial environmental review processes. For 14 15 example, we just finished the CEC process for Keeyask, 16 a thirty-eight (38) day hearing that included testimony from many experts and had several rounds of Information 17 18 Requests. 19 Manitoba Hydro's committed to working

20 within vicinity communities to use the planning and 21 assessment processes for their most important purpose, 22 to plan these projects in the best possible way. 23 And to conclude -- I just want to 24 conclude on a personal note. I've spent the last 25 thirteen (13) years of my career at Manitoba Hydro

3599 working on these various projects. I believe that for 1 -- for myself that these are -- the Preferred 2 Development Plan is the right choice. It's the right 3 choice for my daughter, and for future generations. 4 5 Thank you. 6 MR. DOUGLAS BEDFORD: Mr. Wojczynski will now carry us till 12:30. He's aware, of course, 7 that he has fifteen (15) minutes in which to do that, 8 and he'll be working from Exhibit 129, again with the 9 third part of it, 129-3. 10 11 THE CHAIRPERSON: Before you start out, 12 I have a few questions I wanted to -- to --13 MR. DOUGLAS BEDFORD: Certainly. 14 THE CHAIRPERSON: -- clarify -- get 15 clarified, if you don't mind. You talked very quickly 16 about the income stream that would flow to the partnership for Keeyask. Could you go over that again 17 18 very quickly, please? 19 MS. SHAWNA PACHAL: Yeah, absolutely. 20 21 (BRIEF PAUSE) 22 23 MS. SHAWNA PACHAL: So Hydro and the 24 general partner will own at least 75 percent of the 25 partnership, or potentially more if the First Nation

3600 partners don't take up the opportunity to own the other 1 25 percent. The 25 percent common -- the ownership 2 equity is divided as follows: 15 percent for the Cree 3 Nation partners, 5 percent for each of York and Fox, 4 5 and the idea is that this potential ownership will 6 generate future income streams for each of the communities. 7 THE CHAIRPERSON: So the income stream 8 9 is what I'm interested in. How -- how will that work? 10 I mean, you had some references to the income stream. 11 Could you --12 MS. SHAWNA PACHAL: Well, there's two (2) different -- there's two (2) different options. 13 14 There is the investment options. There is the 15 preferred option, or the common option. 16 As a common unit partner, the First 17 Nation receives annual distributions based on its 18 proportionate share of distributable cash after their 19 equity loan repayments, or the First Nation may alternatively elect to invest in the partnership as a 20 21 preferred unit partner to limit its risk but be 22 eligible to receive distributions based on adjusted 23 gross revenue. 24 25 (BRIEF PAUSE)

3601 DR. HUGH GRANT: Yeah, I was curious 1 about the term 'adjusted gross revenue'. How -- how is 2 that calculated for a hydro generating station? 3 MS. JANE KIDD-HANTSCHER: If I could 4 5 just have one (1) moment, please. 6 7 (BRIEF PAUSE) 8 9 THE CHAIRPERSON: If another panel will 10 be going over -- over that issue, we can -- we can 11 defer that until we can have a more exhaustive 12 discussion. 13 Mr. Wojczynski, what do you think? 14 MR. ED WOJCZYNSKI: We could -- we 15 could leave that for a more full discussion, and me 16 just quickly do -- get through my presentation, if that's what you prefer? We're happy to do it either 17 18 way. 19 THE CHAIRPERSON: Okay. Why don't --20 why don't we do that later then. Okay, I have some 21 other questions. And -- and this is a reference that 22 you made about public health and being -- servicing 23 workers in southern Manitoba. Could -- did I hear that 24 right? 25 Like in other words, when you talked

1 about public health you indicated that you were -- you 2 were planning -- because of increased workers and so 3 on, you were planning -- you -- you expect demand on 4 local facilities, but you also -- I thought you -- I 5 heard you say that you expected some of that demand to 6 be addressed by southern Manitoba?

7 MS. SHAWNA PACHAL: No, what -- what I had said, or -- or perhaps I misspoke but the intention 8 9 is -- we know that there's a -- the large influx of workers in the north, so we -- we have to work with the 10 -- those agents -- the health agencies to ensure that 11 12 they're staffed appropriately, and we assist with 13 making sure all the right mechanisms and supports are 14 in place.

In the south, we don't -- the -- the work -- it's primary -- it's transmission. The workforces are very -- very small, and they move around. And, so we don't really anticipate that there'll be much pressure on the healthcare system associated with that.

THE CHAIRPERSON: I get it. Now, the the -- you indicated that the transmission lines are
not required to have an adverse effects agreement.
Could you explain why?
MS. SHAWNA PACHAL: Well, there -- it -

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3603 - from Manitoba Hydro's perspective there's a huge --1 like quite a difference between building a generating 2 station and the impacts associated with a generating 3 station versus transmission. And so we do provide 4 5 adverse effects arrangements on generation, but on 6 transmission we take the approach, as I mentioned, is that, first of all, because of the nature of 7 transmission we have the options to reroute. 8 9 So we have the options to -- where --10 with the generating station you pretty much have to build it where you have to build it. With 11 12 transmission, we can have a general route and then we 13 can work with communities and local resource users to 14 figure out where are the sensitive spots. Like, where 15 is a caribou calving area? Where is a -- an area where 16 people pick blueberries, or practice traditional 17 pursuits? So we can avoid most of the typical adverse 18 effects that you would see in generation on the 19 transmission side by -- by rerouting. 20 And then for other potential impacts 21 associated with transmission, then we go into sort of 22 monitoring to see what those are potentially. And we 23 look at some sort of offsetting programs and often work with the communities to say, what would be an 24 25 appropriate offsetting program to deal with that, as

3604 opposed to being adverse effects agreements. 1 THE CHAIRPERSON: Now, you know, the 2 discussion -- the -- the information you provided to 3 4 the panel with respect to public safety, public health, 5 heritage resources, water, land, and so on, obviously 6 the state of -- you're addressing these issues with respect to Conawapa is not the same as -- as Keeyask? 7 8 Am I right? I mean, you're far more 9 advanced with Keeyask than you are with Conawapa? 10 MS. SHAWNA PACHAL: Correct. 11 THE CHAIRPERSON: And so are we to assume that what -- what you indicated here will 12 13 necessarily apply to Conawapa, or is that sort of --14 will be modified as you go along? I mean --15 MS. SHAWNA PACHAL: Well, I can --16 THE CHAIRPERSON: -- the -- the 17 arrangements you --18 MS. SHAWNA PACHAL: -- I can tell you 19 there will be some form of an income opportunity. It's under discussion what that looks like. There will be 20 21 training, employment, business opportunities; the same 22 environmental processes, principles, policies will 23 apply' adverse effects arrangements. So it -- it -from a policy or principle perspective all the things 24 25 that we've done on Keeyask we would do on Conawapa.

3605 We're hoping to learn -- take some lessons, learn from 1 Keeyask and from Wuskwatim, and make it even better for 2 3 Conawapa. 4 5 (BRIEF PAUSE) 6 7 THE CHAIRPERSON: Thank you. 8 MR. ED WOJCZYNSKI: Mr. Chair, I'm 9 prepared to do an expedited version of my presentation. 10 I think it would be appropriate given it fits with the -- the topics from this morning. 11 12 Okay. So this -- the -- I'm going to 13 skip through a few of the overheads and -- and only 14 give a summary of the contents of this part of the 15 presentation. You just heard a -- a fairly detailed discussion of the environmentalal -- macro -- the 16 environmental, macro-environmental, socio-economic, and 17 18 benefits side of the -- the Preferred Plan projects. 19 A part of the task for the NFAT and for 20 you as a panel is to do, at -- at a -- at a screening 21 level or a macro-environmental and at a socioeconomic, 22 a comparison of the -- the projects and plans in the 23 Preferred Plan with the other plans. And we do that by 24 focussing on the projects that -- and the technologies 25 that are available in the plans rather than each

3606 detailed plan itself. 1 2 The -- so the focus on this will be the socio-economic and the macro-environmental as a 3 comparison of the different resources. And the 4 5 resources we're talking about are, of course, the winds 6 in the Preferred Plan, natural gas, wind, and the two 7 (2) major transmission projects, the Manitoba-Minnesota Transmission Project and the North-South upgrade. 8 DSM is also covered, but it's a bit of a 9 different animal than the others. DSM is composed of 10 many different small measures that are very different 11 12 from each other. So, generally, our conclusion is, and 13 not a surprising one for you, that DSM is -- is 14 positive from an environmental point of view; very 15 benign. 16 From a socio-economic point of view there are some benefits, and jobs, and things, but it's 17 18 very hard to assess. And we haven't done an extensive 19 evaluation of that, in part because it's so unique to 20 each program, and in part because DSM is going to be in 21 all our plans. And, as Ms. Pachal indicated, our future projects will also undertake a detailed 22 23 environmental assessment as well as Keeyask having 24 been. 25 I'll start off with the air parameter.

	3607
1	In a nutshell, Manitoba the hydro projects have very
2	low emissions of probably the lowest of any
3	generating resource. It's two (2) to three hundred
4	(300) times less than natural gas generation, depending
5	on whether you're talking about simple-cycle or
6	combined-cycle. That's quite a major reduction. It's
7	even more less than coal, but we're not even
8	considering coal at this point.
9	Wind generation is also a very low
10	greenhouse emitter, but still greater than than
11	hydro. Transmission has some GHGs associated with
12	change in land use, but pretty small compared to the
13	other numbers we're I just turned my mic off instead
14	of advancing the slide.
15	The land there's a significant amount
16	of land that is affected by by generation
17	development. In the case of hydro, the amount of land
18	that is affected, and primarily through flooding, is
19	significantly less in the way we are doing our projects
20	now compared to before. Ms. Pachal indicated how we've
21	changed and evolved our approach to planning our
22	projects.
23	So if you look at the hydro and the gas,
24	the gas projects themselves, if you look at the gas
25	turbine, it's a very, very small footprint: negligible.

However, one cannot logically and realistically compare hydro and gas when -- and -- and only look at the actual combustion turbine facility itself. You also have to look at the fact that the hydro project comes with its own fuel; that is the water. The -- the gas turbine has to have a fuel: natural gas.

7 So you have to look at the upstream impacts as well for the natural gas you -- you consume, 8 9 and that there is a substantial amount of land impacted. As a matter of fact, when you add it all up, 10 that -- that ends up being greater than for the hydro 11 12 project when you do it on an energy equivalent basis. 13 Wind has a relative -- has a -- a very 14 small footprint. And there's a fair bit of land that is affected, but -- but a lot of that effect, certainly 15 16 in Manitoba at least, is agricultural land which 17 fundamentally can still be utilized for agriculture and 18 -- and is somewhat offset by the fact they have 19 arrangements with the land owners.

20 Water is, as Ms. Pachal indicated, one 21 (1) of the prominent issues you have -- you have to 22 consider with hydro. There is a decline in water qual 23 -- quality associated with suspended solids. That's 24 mainly due to erosion of the soil material. That's 25 something that is very actively considered, and over

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ten (10) to fifteen (15) years that recovers. 1 2 On the natural gas side, there is a -- a bit of surprise, perhaps. But when you think about the 3 4 upstream end of natural gas, you -- first of all there 5 is -- particularly with the increased use of fracking 6 there's large quantities of -- of water consumed in the pro -- in the production of the -- of the gas. 7 And secondly, there are issues associated with the impacts 8 of the fracking on water. Again, that isn't something 9 that happens in Manitoba, but it's certainly something 10 11 associated with natural gas generation. 12 Flora, the plant life and whatnot, the 13 effect from the hydro side is mainly the amount of 14 wetlands that are flooded in one (1) way or another, or 15 affected by diking. And it's a less than 1 percent of 16 the total wetland in the study area is affected. Ιf 17 you look at gas, again, you have the upstream impact on 18 the local ecosystem, including wetlands and boreal 19 forest. 20 And I add in here that we -- that 21 there's climate change impacts, and we get that --22 through that indirectly by talking about the CO2 23 emissions, which we did in the -- one of the first 24 slides. But I think something we need to keep in mind, 25 in a broader consideration, when we're looking at

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1 whether it's flora, fauna, is that one (1) of the 2 largest threats to the environment is due to climate 3 change. And that includes the same flora and fauna 4 that we are addressing here in the local Keeyask and 5 Conawapa area. A prominent issue, as Ms. Pachal 6 indicated for Keeyask and for Conawapa, are sturgeon.

7 Caribou; I won't go into those. She just finished talking about it. With Gas, there isn't 8 9 any effect in Manitoba, but there would be in Alberta. As a matter of fact, the federal Species at Risk Act 10 11 has listed the boreal woodland caribou in the area that 12 there's gas production in there and have cited the oil 13 and gas production as being a major issue for them. Transmission; there is no effect, obviously, on lake 14 15 sturgeon and not in the US transmission line, the MMTU 16 (sic). The North-South Upgrade would traverse the caribou habitat areas and there will be monitoring and 17 18 mitigation for those.

19 Training and employment; that was 20 touched on already. That's -- there's -- if you build 21 the hydro projects, there are major employment during 22 construction. If you look at the gas generation and 23 you do it on a per-energy equivalent, there's about ten 24 (10) times as many jobs on a per-megawatt hour basis of 25 capability from hydro versus gas.

Wind has -- if you construct wind 1 2 generation, obviously there's some jobs there as well, but they're relatively smaller. They also are all 3 focussed in the south, whereas with the hydro 4 5 generation you tend to get jobs focussed in the north 6 where there's a higher degree of unemployment. 7 Transmission would also involve some jobs. 8 Local business opportunities, Ms. Pachal 9 dealt with those. There was the two hundred (200) for Keeyask, the \$200 million for these direct negotiated 10 11 contracts. There are also the other contracting employ 12 -- opportunities on the generation projects, and also on transmission. 13 14 Gas; there would be some degree of 15 business opportunity but much less. And in southern 16 Manitoba, wind; there would be some opportunities in 17 the south as well. 18 Personal, family, community life; a prominent issue. We heard from Ms. Anderson this 19 morning, was the -- the worker interaction issue was 20 one (1). And -- and Ms. Pachal mentioned the 21 22 methylmercury issue. Those are both something we've 23 paid a lot of attention to with our partners and are 24 dealing with in the Gas side. There would be some 25 issue with that but not to the same degree.

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3612 Wind; there is, to some degree, turbine 1 noise and related potential health effects. I think 2 I'll skip the infrastructure one for now. Resource use 3 is another prominent area. Obviously, when we expand 4 5 the waterway through the flooding we put in dikes, 6 roads, that -- that that has an impact on the shoreline 7 and on the -- the access to those resources that are in that area. We, again, work closely with our partners 8 9 with the adverse effects agreements, with offsetting programs, and we will be doing the same thing with 10 11 Conawapa.

Again, with Gas, there would be in the – 13 - in the Alberta kind of area where the gas is produced 14 there will be issues; not -- not in Manitoba. But 15 again, there is the climate change effects that would 16 affect resource users generally in Manitoba as well. 17 So just to summarize for each of the

18 technologies or types of projects: DSM we view as very 19 attractive from a macro-environmental perspective. We 20 don't question that whatsoever. Socio-economic 21 benefits are not so clear. There probably are some, 22 but it's probably not as big an issue. And again, it's 23 going to be in all our plans, including the Preferred 24 Plan.

25

Natural gas; an advantage in natural

gas, you locate it close to the load source, relatively 1 2 speaking. You put it in southern Manitoba. We do have pipelines that are running through southern Manitoba. 3 There is transmission. You'd have to expand the 4 5 transmission, but there would be much less transmission 6 with natural gas than you do with hydro. Of course 7 then there's less -- but there's also less employment benefits, less training benefits, there's large amounts 8 9 of CO2, and there would be some effects to the land, 10 water, fauna in the production area of the natural gas 11 itself.

12 Transmission; as Ms. Pachal indicated, 13 there's a lot of opportunity to minimize those effects 14 through the route selection process and the processes 15 with the potentially affected local people. Again, there'll be monitoring programs, mitigation, and there 16 would be some business and employment opportunities. 17 18 Wind; low -- low GHGs, some environment 19 effects on birds and bats and the turbine noise issue I mentioned. They'd be built in southern Manitoba where 20 21 there would be some jobs there, not as many as the 22 hydro projects. And, again, they'd be in the south, so there would be much less in terms of socio-economic 23

24 benefits to Manitobans.

25

Hydro; I don't want to go through the

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	3614
1	full detail again here. We've reduced the
2	environmental impacts compared to previous projects,
3	one (1) of the benefits of working with our partners.
4	We've got adverse effects agreements, and will have
5	them for Conawapa. We will have monitoring and
6	mitigation. We'll use adapt what's called adaptive
7	management, so if surprising surprises come up,
8	we will deal with them, and adapt and deal with those -
9	- those surprises.
10	There will be a lot of benefits from the
11	economic development throughout Manitoba, and
12	particularly for the northern and Aboriginal
13	communities, and these are the the areas of the
14	province where there's high unemployment and the
15	communities have historically faced the socioeconomic
16	challenges that were mentioned this morning, and we're
17	all aware of.
18	The construction of the hydro will have
19	about ten (10) times as many jobs as the equivalent on
20	the gas side, and three hundred (300) times less
21	greenhouse gases emitted, and we conclude, Manitoba
22	Hydro, that overall, the hydro is the best source of
23	electricity from a macroeconomic and socioeconomic
24	perspective. Thank you.
25	

3615 1 (BRIEF PAUSE) 2 3 MS. MARILYN KAPITANY: Mr. Wojczynski, when you were talking about the jobs that are going to 4 5 be created, are those construction jobs solely, or are 6 those construction and then maintenance long-stream? And could you just compare some of the options in terms 7 of how the jobs in the -- the future will compare to 8 the ones in the shorter term when projects are being 9 constructed? 10 11 MR. ED WOJCZYNSKI: Yeah. Yeah. The -12 - these jobs I was referring to were the construction 13 jobs. On the hydro side, there will be much -- a much smaller number of jobs, and there aren't many jobs on 14 15 the gas side on an operational side either. 16 On -- on the wind side, I don't have an exact number, and we could get that for you. 17 The --18 the wind actually does have an ongoing maintenance 19 component to it that's not trivial, and so there are 20 some jobs, but there -- but there's not a huge number, 21 but if you would like -- I don't have them readily 22 available, but we could come back with them if -- if 23 you prefer? 24 MS. MARILYN KAPITANY: Sure. That 25 would be great. Thank you.

3616 1 MR. ED WOJCZYNSKI: Okay. 2 DR. HUGH GRANT: I'll be very brief. Could you just explain -- I was quite surprised that 3 the greenhouse gas effects of it -- of hydro is 4 5 significantly less than wind. When you talk about life 6 cycle, does that mean from construction through to 7 destruction, and --8 MR. ED WOJCZYNSKI: Yeah, life cycle is 9 over the whole life of each facility, and then we essentially divide it or levelize it by the amount of 10 energy over its life, so that accounts for the 11 12 different periods of life for the different 13 technologies, and it includes, amongst other things, let's talk about the hydro project to start with. 14 The 15 amount of concrete and cement, it's quite -- cement --16 creating cement creates greenhouse gases. That's 17 included. 18 The -- the diesel trucks used, for 19 example, and the heavy equipment that's used. Any land that you've cleared for the project, whether it's the 20 21 road or along the reservoir, so the fact you've taken 22 trees out of the carbon cycle, that's included, and the 23 -- there's a relatively small component which I'm going to mention, but is often being brought up in -- by 24 25 people, and that is the emissions from the reservoirs.

3617 Canadian reservoirs -- actually I'll say North American 1 reservoirs produce very, very, very few emissions. 2 3 What has reached some -- given some -and that is included in here, but it's very small. 4 The 5 reason that issue has been given some prominence is some -- there are some dams and reservoirs in the 6 equatorial regions that have low output, vast amounts 7 of flooding, and they have a lot of material, and --8 9 and those -- some of those have had relatively high 10 amounts, but these projects have very, very few emissions, like, from the reservoirs themselves. 11 From the wind, for instance, it's --12 13 again, it's the steel. There's a lot of steel. That -14 - there's greenhouse gases for that. There's also some 15 greenery taken out of action, as well, and there's even -- it's a bit surprising, and people aren't normally 16 aware, there's a good chunk of concrete underneath each 17 18 wind turbine to keep it stable, so all of those are 19 accounted for. 20 DR. HUGH GRANT: Because it comes a --21 wind is five (5) times more in this calculation. Is that in ri --22 23 MR. ED WOJCZYNSKI: Yes, and these 24 numbers were not calculated by us, but by the Pembina 25 Institute, and -- and they -- they -- one (1) of their

3618 expertise is doing this, and I think there was -- some 1 people have -- may have -- some people may -- may view 2 us as having gone to the Pembina Institute and gone to 3 4 somebody who has a bias of some kind. 5 I can guarantee the Pembina Institute, 6 which is environmentally oriented, has no bias against wind, and they double check their numbers. 7 8 THE CHAIRPERSON: Okay. The panel has 9 exhausted its questions for the time being. Given that it's lunch now I propose that we take a half hour 10 11 lunch. I just want to put everybody on notice that the 12 panel is prepared to sit beyond 4:30. We want to make sure that we address all of the -- all of the witnesses 13 14 -- all the Intervenors have an opportunity to question 15 the witnesses and we're prepared to sit beyond 4:30 to 16 make sure that happens today. 17 So for those of you who have childcare 18 issues, you better make other arrangements, because 19 we're going to sit until we complete the schedule. 20 Thank you. 21 22 --- Upon recessing at 12:42 p.m. 23 --- Upon resuming at 1:18 p.m. 24 25 THE CHAIRPERSON: Good afternoon. Ι

3619 believe that we're ready to resume the proceedings. 1 2 CONTINUED BY MR. DOUGLAS BEDFORD: 3 4 MR. DOUGLAS BEDFORD: We'll pick up 5 with Mr. Page. And Mr. Page is working from the same 6 presentation, Exhibit 129, except the fourth part of it with the cover page that bears his name. 7 8 Mr. Page...? 9 10 (BRIEF PAUSE) 11 12 MR. IAN PAGE: Good afternoon. I have 13 a very brief presentation on the economic impact 14 analysis that was filed as Appendix 2.3 of the original 15 application. So what I'm going to go through is sort 16 of -- of the economic impact analysis that was done on the Preferred Development Plan in terms of employment, 17 18 direct, indirect, and induced. 19 And what those mean are: Direct are 20 people actually on -- on the job site; labour directly 21 related to the project. Indirect is labour associated 22 with support industry for those projects. And induced 23 is the -- is the employment and other effects that are 24 related to -- to the additional income available from 25 the direct and indirect that flows back through the

3620 economy. And we'll talk about labour income, tax 1 revenue, and domestic product throughout part of this. 2 3 So the methodology, we use Manitoba Bureau of Statistics; they have an input/output model. 4 5 So we get the -- to work with the -- the engineers and 6 do a detailed assessment of -- of the particular jobs 7 required for the particular functions, which goods and services are. And -- and the engineers also give us an 8 9 indication of what jurisdiction they expect the -- the 10 expenditures to happen within. 11 So if it's say -- say a purchase of a 12 turbine or a generator they can tell us that there is 13 not going to be a supplier in Manitoba or even in 14 Canada for -- for a project for items such as that, and 15 then that -- and that information is then fed into the 16 model. 17 So when we do that model, we'll -- we'll 18 see that anything that -- so of all the expenditures 19 related to the project will then determine how much is 20 Manitoba. And -- and by deduction anything that's not spent in Manitoba is -- is a leakage from the Manitoba 21 22 economy. 23 So that model does -- to give us the 24 idea of -- of how much of the -- of the expenditures 25 are retained within Manitoba, and how much are retained

3621 within the rest of Canada, and then the balance would 1 be for the rest of the world. 2 3 So the Preferred Development Plan is -this chart shows the -- the actual expected benefits in 4 5 terms of employment and other effects. So we can see 6 nineteen thousand two hundred (19,200) construction 7 jobs. There was question earlier about what the relative O&M jobs are. You can see they're quite 8 9 small; about three hundred (300) on an annual basis, whereas the nineteen thousand two hundred (19,200) is 10 11 for the -- is for the duration of the construction 12 period, so they're -- not quite equivalence. 13 Provincial and local taxes; so this 14 would be things like payroll taxes, PST, various taxes, 15 employment -- various employment taxes, and so forth. 16 So about half a billion dollars in provincial and local 17 taxes during the construction period, and about \$2 18 million annually. 19 Provincial GDP; we're adding about \$2 20 billion during the construction period to the Manitoba 21 economy, about 15 million annually. And labour income is about \$1.5 billion during construction and again 22 23 about 13 million annually. 24 THE CHAIRPERSON: Mr. Page, the -- the 25 capital taxes would not be part of this, would they?

3622 1 MR. IAN PAGE: No. No, I should have mentioned that, yeah. Capital taxes, you know, we're 2 looking at PST, sort of expenditure-related taxes, so -3 - so PST, then there would be labour taxes. So payroll 4 tax, income tax that -- that the workers would pay in, 5 6 and -- and so forth. 7 But the -- yeah, the -- the good -- the large ones like the water rentals, provincial guarantee 8 9 fee, and capital tax are -- are excluded from this. And -- and Dr. Shaffer will talk about those a bit 10 11 later. 12 So just to get a sense of the -- the 13 relative scale on these, these -- these are the direct 14 and indirect employment per -- per project. So you see 15 over eighty-three hundred (8,300) total -- total person 16 years of employment for Keeyask, and over nine thousand (9,000) for -- for Conawapa. And then numbers in the 17 18 five (5) to six hundred (600) range for the various 19 transmission projects. 20 And just for -- just for -- sort of to 21 scale things, the direct jobs related to Keeyask are 22 about forty-six hundred (4,600), so a little over half 23 of that, and -- and Conawapa is almost fifty-one 24 hundred (5,100). So again, a little over half of -- of 25 these totals would be direct employment versus the

indirect and -- and induced. 1 2 And -- and again, just for comparison purposes, this is for the Preferred Development Plan. 3 To put the -- some -- a -- a gas turbine in -- in 4 5 respect of -- we'd be looking at in nature of about a 6 hundred and seventy (170) direct jobs in Manitoba, and six hundred (600) in the rest of Canada. And for a 7 8 combined cycle the numbers would be about five hundred 9 (500) in Can -- in Manitoba, and sixteen hundred (1,600) in Canada. 10 11 So you can see -- I -- in scale, the --12 the hydraulic generation has a lot more local 13 employment. And I think that's actually all I was 14 going to talk about that. 15 So if there's any questions? 16 DR. HUGH GRANT: I just had one (1) comment and one (1) question, because I don't doubt for 17 18 a minute the magnitude of these numbers; I just 19 question using input/output tables to derive them, because I don't understand how you can measure dire --20 indirect and induced effects of a -- of a -- a large 21 22 construction project in the North based on existing 23 data on the construction industry in Manitoba. 24 MR. IAN PAGE: It -- it is -- it is a 25 challenge, because it's -- the model is based on -- on

3624 the entire Manitoba economy. The impacts that we see 1 specifically on -- in the North are going to be a lot 2 larger. And -- and Dr. Shaffer, again, will speak to 3 that. The model does reflect a past history of 4 5 experiences, so -- so the Wuskwatim history and the --6 and the Limestone history are -- are known. What -what isn't factored in the model is -- is all the 7 additional efforts that we've made in terms of training 8 9 to try to capture a larger portion of the jobs within Manitoba versus Canada. 10 11 So it -- it's -- it's based on sort of 12 historical experience, so all the stuff that Ms. Pachal 13 spoke about this morning, that won't be factored in 14 there. So if we were to do an update after Keeyask 15 when we're looking forward again, presumably we'd --16 we'd show a higher experience and -- and a higher 17 proportion of Manitoba jobs versus external. 18 DR. HUGH GRANT: Yes, my - my -- I 19 would not have used the Manitoba input/output table. Ι think it would have been done better just estimating 20 21 things yourself. 22 My question was, I think the tie plan 23 study said in fact that you underestimated the impact. 24 Because, you know, you're measuring the initial 25 injection as spending into the Manitoba economy, things

3625 that you treated as 100 percent imports actually had 1 some local content to them. 2 3 Is that --4 MR. IAN PAGE: That -- yes, that was 5 their -- their view. They used a Stats Canada model 6 which had a -- shows a higher portion of -- or maybe to put it the other way, a reduced leakage in -- from Man 7 -- from the Manitoba economy than -- than the Manitoba 8 9 Bureau of Statistics model does. And the Manitoba model we think is -- does a better job of -- although 10 it may be conservative, as I mentioned, with the -- the 11 12 efforts that -- on training and so forth, but it does 13 reflect a sort of more current knowledge of -- of local 14 -- local industry that -- than does Stats Canada model. 15 For -- for example, when we built Limestone, cement was -- was produced in -- in 16 It's no -- it -- now it has to come from 17 Manitoba. 18 Edmonton. Limestone had Manitoba steel in it. Again, 19 that has to be imported. And so all of those sort of 20 current things that -- that we're aware of and -- and 21 the -- and the Manitoba Bureau of Statistics can 22 reflect, and Stats Canada, just seems to lag a bit 23 behind in capturing some of those changes to the 24 economy. 25 I thought the DR. HUGH GRANT:

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3626 distinction they were making is that say you have to 1 2 import cement from Edmonton --3 MR. IAN PAGE: Yeah. DR. HUGH GRANT: -- that if they're 4 5 carried on a Manitoba truck then -- then it's 6 generating some local benefits that you're -- you know 7 8 MR. IAN PAGE: Yeah, I -- I recognize that they -- they made that statement, but the -- the 9 model does reflect that -- that local portion in the 10 11 calculations. 12 DR. HUGH GRANT: Okay. Thank you. 13 THE CHAIRPERSON: At construction peak 14 how many jobs are we talking of? I mean, if you look 15 at the period of peak construction for the transmission 16 line and the Keeyask Project, what's the maximum number 17 of jobs at any one (1) point in time, do you know? 18 19 (BRIEF PAUSE) 20 It'll just take us a 21 MR. IAN PAGE: 22 minute to find that. I had the total person years, but 23 not the direct -- direct and indirect, but not the peak 24 employment, yeah, which I think is what you're looking 25 for.

3627 1 THE CHAIRPERSON: Yeah, but in -person years would be useful, as well. 2 3 MR. IAN PAGE: Pardon? 4 THE CHAIRPERSON: Person-year 5 employment would be useful, as well. 6 MR. IAN PAGE: Okay. For Keeyask, it was forty-six hundred and eleven (4,611) direct --7 direct person years of employment, and Conawapa is five 8 9 thousand seventy (5,070). So a little over half of the 10 total employment was -- was direct. 11 DR. HUGH GRANT: Could I just follow up 12 on that on just one (1) point. Would these be net 13 jobs? This is just the total jobs created, but is this 14 necessarily --15 MR. IAN PAGE: This is -- yeah, and Dr. Shaffer will talk a bit more about that after. But, 16 yeah, this is -- this is looking at sort of drawing a 17 18 box around the Keeyask Project and not -- not looking 19 at if somebody gets a job from in -- somebody in 20 southern Manitoba gets a job on the Keeyask site, what 21 happens to their job down here, and the lag it takes to 22 fill that, and so forth. That's -- so it's -- it is 23 strictly a gross. 24 And -- and Dr. Shaffer will talk more on 25 -- on the net side.

3628 MS. SHAWNA PACHAL: We have an EIS on 1 that -- the peak number. We're just looking it up. So 2 if they want to start the next presentation, we'll have 3 it sent to us by the time that's done. 4 5 THE CHAIRPERSON: Good idea. Let's 6 keep -- let's keep going, please. 7 MR. NORMAN BRANDSON: Good afternoon. I'm going to begin my presentation with a very brief 8 9 recap of the origins of sustainable development in Canada. Manitoba played a prominent role in setting 10 this movement in motion, and it's had a significant 11 12 subsequent impact here over the past twenty-five (25) 13 years. I will then again, briefly, describe how the successive provincial government administrations of 14 15 Premiers Filmon, Doer, and Selinger have dealt with 16 this concept. 17 The issue of sustainable development as 18 it relates to the terms of reference for the present 19 NFAT review will be addressed. The commitment of 20 Manitoba Hydro to sustainable development would be --21 will be described. And finally, I'll outline how Manitoba Hydro's proposal before the Board aligns with 22 23 the principles of sustainable development as contained 24 the Manitoba Sustainable Development Act. 25 The United Nations World Commission on

3629 environment and development chaired by Madam Brundtland 1 coined the term 'sustainable development' in its 1987 2 report, 'Our Common Future'. Its guiding premise is 3 that the environment and the economy are not two (2) 4 5 separate realms; they're intimately related. Its 6 definition is development that meets the needs of the 7 present without compromising the ability of future 8 generations to meet their own needs. 9 The concept coming at a time of 10 increasing friction between globalization and 11 environmental degradation had an instant and widespread impact. The Canadian Council of Resource and 12 Environment ministers formed a multi-sectoral task 13 14 force chaired by the Manitoba Minister of Environment to prepare Canada's response to the Brundtland Report. 15 16 They produced in 1987 the so-called It made a number of recommendations 17 Green Report. 18 designed at integrating these two (2) formerly 19 compartmentalized landscapes of environment and 20 economy. Its recommendations included that governments 21 integrate socio-economic and environmental 22 considerations and other decision making, that industry 23 adopt and implement environmental principles as part of 24 doing business, that multi-sectoral roundtables be 25 established in each jurisdiction to advise governments

on environment economy integration, and that Canada 1 should support environmentally sound economic 2 development both at home and abroad. 3 The Manitoba Government enthusiastically 4 5 adopted all the recommendations. To implement them, it 6 appointed a roundtable, it added a section on environmental considerations to cabinet submissions, 7 8 and initiated state of environment reporting. However, 9 before the NDP Government of Premier Pawley could fully flesh out a vision of sustainable development, he was 10 11 defeated. The Conservative administration of Premier Filmon took office in 1988. 12 13 The new Government identified 14 sustainable development as one (1) of its flagship 15 issues. It immediately set about putting in place the 16 infrastructure to promote and support sustainable development. It co-founded, with the Federal 17 18 Government, the International Institute for Sustainable 19 Development. It successfully offered to permanently house the secretariat for the Canadian Council of 20 21 Ministers of Environment in Winnipeg, where it still 22 remains. Government appointed a multi-sectoral 23 roundtable and charged it with conducting public 24 consultation on sustainable development strategies for 25 all major areas of the Manitoba economy.

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These twelve (12) strategies both 1 contributed to and popularized the growing sustainable 2 development vocabulary, and it began to solidify the 3 Government's sustainable development model. That model 4 5 included legislation. A white paper was released to 6 initiate public dialogue. And this process proved to be a longer one than government had anticipated. 7 One (1) of the -- the difficulties that 8 9 was encountered, and it -- it persists to this day, is 10 that although there is general agreement on the broad 11 components of sustainable development, some require 12 value judgments about which there is no consensus and 13 are open to a variety of interpretations. 14 In the Manitoba Sustainable Development Act passed in 1997, the Government opted for 15 Brundtland's broad definition of 'sustainable 16 17 development' elaborated through a series of principles 18 and guidelines. By that time, the language of 19 sustainability was fairly well articulated. A Manitoba 20 statute contains wording recognizable in virtually all 21 sustainable development legislation in Canada. 22 As with any acts of the legislature, 23 wording was carefully chosen. None of the principles 24 or guidelines is prescriptive. Words and phrases such as 'should' rather than 'shall', 'encouraging" and 25

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3632 'facilitating' and 'take into account' describe how the 1 principles and guidelines are to be considered. There 2 is no suggestion that these are criteria to be used in 3 decision-making, but rather that they are factors to be 4 5 considered in development planning, and considering 6 them, opportunities will be recognized to enhance 7 sustainability. There's no compliance regime in the Manitoba Sustainable Development Act. 8 9 Looking at these broad components of 10 sustainability as part of economic development has 11 resulted in progress towards sustainability. However, 12 Government also has the responsibility to determine if 13 there's a consensus on defining and quantifying some of 14 these components, so they -- they can be applied 15 through a policy or legislation. 16 To this end, the consultation on sustainable development implementation, or COSDI was 17 18 the acronym used and is still used, was launched in 19 1997. Recommendations were developed through a 20 comprehensive and inclusive public consultation 21 process. The keystone recommendation was that the 22 province adopts a wide area and municipal planning 23 regime that incorporates sustainable development at a 24 high level independent of, but guiding, individual 25 development decision.

Before it had time to consider and act 1 upon the COSDI recommendations, the Filmon Government 2 was replaced by the NDP administration of Premier Doer 3 in October of 1999. As you probably know, it's quite 4 5 unusual for a new government to adopt without 6 alteration the policies of its predecessor. In effect, 7 though, this is what occurred with respect to sustainable development. 8

9 A sustainable development strategy paper was released in June of 2000 in which the new 10 government accepted the COSDI report, initiated the 11 12 East Side Planning Process as the first pilot of wide-13 area planning. It enhanced the functions of the 14 roundtable, it appointed an Aboriginal resources 15 council, and committed to the integration of 16 sustainable development strategies into the day-to-day 17 operations of the newly created Department of 18 Conservation.

In 2001, a sustainable development code of practice was implemented, designed to further clarify the broad components of sustainability for consideration in public sector decisions and activities. A little more specific in some respects than the principles and guidelines -- for example, the use of Aboriginal traditional knowledge was encouraged

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development targets.

-- the code remained directive rather than 1 prescriptive. 2 3 In spite of progress towards sustainability there remained, both inside and outside 4 5 government, a search for clarity and consensus if it 6 could be achieved on specific policies or legal instruments that could be applied to assist this 7 progress. In areas where there is broad agreement, 8 9 this has indeed occurred. Sometimes it's happened almost incidentally without overt ties to 10 11 sustainability. For example, public involvement and 12 transparency of decision making has improved 13 enormously, reinforcing one (1) of the attributes of 14 sustainability, openness, while evolving for a variety 15 of reasons. 16 In other cases, the province has 17 articulated its strategy to achieve sustainability in a 18 particular sector in fairly concrete measurable terms. 19 The provincial clean energy strategy is an example. 20 Where broad themes that ought to pervade to support 21 sustainability can be quantified, the province has

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The terms of reference issued by the

developed policies, for example, with respect to

Aboriginal training, employment, and business

3635 province to the Public Utilities Board NFAT panel makes 1 2 reference to sustainable development and its relationship to the panel's review. The words of the 3 terms of reference issued by government, much like its 4 5 legislation, are understandably carefully chosen. 6 A review of the key words concerning 7 sustainable development in the context of government's 8 approach, that has been remarkably consistent over the 9 past twenty-five (25) years, I believe, reinforces the clarity of the wording. The panel is directed in its 10 assessment of the needs and timing of the proposal, and 11 12 the proposal as compared to alternatives, to take into 13 consideration the alignment of the plan and 14 alternatives to the principles of sustainable 15 development. 16 The key words, in my view, are: take into consideration, alignment, and principles. 17 'Take 18 into consideration' and 'alignment', taken together, is 19 clearly not prescriptive. It is the principles to which the panel is to consider alignment, not the 20 21 principles and objectives. This means an examination 22 at a high level, a general or a macro rather than micro 23 level. 24 And all this makes sense in -- in the 25 Manitoba context. Where it could, the government has -

- has developed policies that define in more detail 1 particular attributes to sustainability, guiding the 2 public sector in directions that reinforce conditions 3 conducive to sustainability. For those components 4 5 where the precise means of application is unclear, that 6 they've been considered so that case specific 7 opportunities for application can be identified if they exist is sufficient. 8 9 Manitoba Hydro has embraced sustainable 10 development and acted to integrate the concept into its 11 daily operations, as well as future planning and 12 development. Hydro has had a sustainable development 13 code of practice in place since 2003. The code consists of thirteen (13) principles, each of which is 14 15 articulated in the context of the Corporation's 16 business. They have been derived from the principles and quidelines contained in the Manitoba Sustainable 17 18 Development Act. 19 The Corporation reports annually on its 20 progress on sustainability issues. Measurable 21 indicators of some quantifiable aspects of 22 sustainability have been developed and are tracked in 23 the report, and opportunities to expand this menu are 24 being sought. 25 Hydro has a well-developed environmental

3637 management system, and subscribes and adheres to the 1 International Standards Organization 14000 series. 2 The Corporation is an active participant in international 3 forums, keeping current with global sustainability 4 5 issues while acting locally. 6 The environmental impact statement of 7 the Keeyask partners devoted Chapter 9 to documenting the alignment of the project with sustainable 8 9 development legislation, and with Manitoba Hydro's 10 sustainable development code of practice. 11 How then does the proposal before the 12 panel align with the principles of sustainable 13 development contained in the Manitoba Sustainable 14 Development Act? 15 I -- I won't repeat in detail here the 16 documentation that's already before the panel, but I'd like to identify just a few highlights under each 17 18 principle. Principle 1 is the integration of 19 environmental and economic decisions. As documented in 20 the NFAT submission, and identifying its Preferred Development Pran -- Plan, Hydro screened sixteen (16) 21 22 resource options against fifteen (15) characteristics 23 divided into four (4) categories: technical, 24 environmental, social and policy, and economic. 25 A melding of environmental, social, and

3638 economic concerns was thus incorporated at the earliest 1 stage of planning. The needs assessment cast a wide 2 net that included clearly articulated assumptions for 3 load growth, domestic and export, demand-side 4 5 management, and existing resources. As options were 6 reduced, the multiple account cost benefit analysis was applied to take into consideration consequences not 7 8 reflected in a simple accounting of revenues and 9 expenditures. 10 Principle 2, stewardship. Consideration 11 of the potential impact on future generations loomed 12 large in the thinking of the Keeyask/Cree partners. 13 Throughout the decade long process of developing the 14 partnership measures were agreed upon designed to 15 minimize the impacts and maximize the benefits to 16 future generations. 17 For example, a considerably smaller 18 project than the maximum technically feasible design 19 was agreed upon to greatly reduce flooding. 20 Environmental effects agreements were concluded that 21 ensure ongoing future benefits to the communities. The 22 development of renewable hydro power minimizes 23 greenhouse emissions to the benefit of present and 24 future generations. 25 Principle 3, shared responsibility and

understanding. The Keeyask partnership is founded on 1 respecting the culture, customs, and world view of the 2 Tataskweyak Cree Nation, the War Lake First Nation, the 3 York Factory First Nation, and the Fox Lake First 4 5 Nation. Aboriginal traditional knowledge had a 6 significant role in the environmental assessment of the 7 Keeyask Project and will continue to loom large in the 8 various plans that will govern the operation of future 9 facilities.

10 Ways to help alleviate the current 11 economic disparity between northern and southern 12 Manitoba have been factored into the plan. To the 13 wider Manitoba public, Hydro has provided numerous 14 opportunities to be informed about the development of 15 its plans and to make their views known. As a Manitoba 16 Crown Corporation, all Manitobans are its partners.

17 Principle 4, prevention. An initial 18 quiding principle in the planning process was to focus 19 on river systems currently managed for hydro-electric developments. The size of the Keeyask proposal and the 20 21 preliminary design for the Conawapa development have both been reduced from technically feasible maximum in 22 23 order to avoid and reduce potential adverse 24 environmental and social effects due to reservoir 25 flooding. Recognizing that predictive science is not

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3640 infallible, the principle of adaptive management will 1 be applied to Keeyask and Conawapa projects. 2 3 Principle 5, conservation and enhancement. The construction of the projects is 4 5 governed by strict rules to minimize the disruption to 6 terrestrial and aquatic habitat due to construction activities. Lake sturgeon has received considerable 7 attention related to the Keeyask Project. The goal is 8 9 to enhance the local population through a stocking program. Efforts will be closely monitored and 10 11 adaptive measures taken if necessary. And opportunities to enhance fish habitat will also be 12 13 implemented. 14 Principle 6, rehabilitation and 15 reclamation. All construction-related disturbance not 16 associated with the operation of the hydro-electric plants at Keeyask and Conawapa will be re-vegetated and 17 18 returned as closely as possible to pre-development 19 conditions. Adaptive management measures again will be implemented to deal with any unforeseen effects. 20 21 And finally, and in conclusion, 22 Principle 7, global responsibility. By developing 23 renewable hydro-electric power, Manitoba Hydro will be, 24 through export sales, replacing future greenhouse gas 25 emitting fossil fuer -- fuel power plants. This will

3641 contribute to the long-term mitigation of effects of 1 climate change, the most serious global 2 intergenerational issue of our time. Once the power is 3 required to meet Manitoba needs, it will contribute to 4 5 the province's stated goal of a fossil fuel free 6 Manitoba economy. Thank you. 7 8 (BRIEF PAUSE) 9 10 MS. MARILYN KAPITANY: Mr. Brandson, can you explain how a forebay clearing in -- how it 11 12 works in relation to rehab and restoration? 13 MR. NORMAN BRANDSON: I don't think I -- I have mentioned it under rehab and restoration, but 14 I -- I guess I would include it more as a -- a very 15 16 serious mitigation measure. It doesn't, to me, fit under the vocabulary of rehabilitation and -- and 17 18 restoration other than perhaps rendering the -- the 19 reservoir somewhat more akin to the original aquatic environment that existed prior to flooding. 20 21 But personally, I -- I wouldn't classify 22 it as rehabilitation as such. The original impact is 23 the flooding and you're trying to reduce the impacts 24 that that has. 25 MS. MARILYN KAPITANY: Thank you.

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That's what I thought too, but I just wondered. 1 2 THE CHAIRPERSON: Thank you, Mr. I guess, the other question -- you know, I'm 3 Brandson. glad that you went through the history of the evolution 4 5 of sustainable development policy in Canada. But I'm 6 interested in knowing -- you know, we're talking about a project that's a number of years out in the future, 7 where's the policy going and is the project aligned 8 9 with future evolution of -- of a policy in this area? 10 Could you -- could you talk about that 11 briefly? 12 MR. NORMAN BRANDSON: First of all, I'm 13 sure others will be addressing that as -- as well 14 during these -- these hearings. I think where -- where 15 the policy is heading is -- is a continued striving to 16 reach some consensus on what admittedly, in many cases, 17 are -- I quess I'll say vaque terms. 18 I mean, in -- in a conceptual sense, I 19 think most of us understand sustainability and -- and 20 some of these broad principles that are stated here. 21 The difficulty is -- is getting a handle -- I mean, 22 intergenerational effects would -- you know, what 23 specifically do we need to do, or not do, and how much 24 of it? And -- and what effects are we talking about? 25 What opportunities might or might not be precluded?

3643 You know, as you know, there -- there are some who 1 would advocate that simply having a strong and healthy 2 economy today will be sufficient to put future 3 generations in a position to deal with whatever comes 4 5 along. They'll be able to afford the technology and we 6 will have the wealth to develop all sorts of technological solutions, and -- and so on. 7 8 So my view is that -- that -- and it's not -- I'm -- I'm sorry it's not a very helpful 9 definition of -- of where I see sustainable development 10 going, because it -- it doesn't answer the question of, 11 12 Well, what precisely would some of these definitions 13 be? 14 But I think that's where we're heading, 15 to -- to continue to seek more consensus on -- on what 16 all this means in a measurable way, so that -- that we -- we can -- as -- as has been done in some cases -- I 17 18 mean, a very simple example that's been on the table 19 probably before they started talking about sustainable 20 development is sustainable yield in forestry. I mean, 21 there -- there's something that's a numerical, 22 calculable number that relates to sustainability in a 23 very particular sector, in a very narrow sense. 24 But as -- as we get into this broader 25 sort of global sense of sustainability -- so that's

3644 really what we're talking about. We're not just 1 talking about sustainability of 'A' or 'B', but 2 sustainability of -- of our ongoing economy and social 3 interrelationships and so on. And certainly in my 4 5 view, and -- and I think it's -- it's shared guite widely -- is we're not there yet by a longshot. 6 7 But having said that, and I -- and I think I said it somewhere here, and -- and I've been 8 9 involved in, sort of, a good fortune really to be involved in the discussion about sustainable 10 development right from the early days. I -- I worked 11 12 for Gerard Lecuyer who was the minister who chaired the Canadian Council of Resource and Environmental 13 14 Minister's task force that wrote Canada's response. 15 And -- and although we've -- we've -- I 16 wouldn't say applied -- we've considered a lot of these 17 general things, and -- and specific things that we do, 18 we haven't done it in a prescriptive way, but it has 19 opened up opportunities and -- and revealed 20 opportunities. And if you look at the big picture --21 and again I -- I reference some of the -- the progress, 22 things like transparency, equity; I mean, they're --23 they're big projects. 24 We don't consider any longer without 25 looking at equity issues. We did, you know, thirty

3645 (30) -- thirty (30) years ago, but today we don't. So 1 -- so some of the -- the sustainability attributes are 2 -- are working their way into the system, and if you 3 look at a longer view and -- and more of a macro view, 4 personally I -- I'm quite optimistic about the progress 5 6 we've made so far, and that we're going to make more 7 progress in the future. 8 9 (BRIEF PAUSE) 10 11 MS. SHAWNA PACHAL: We can respond to 12 your question now. For Keeyask, assuming an in-service 13 date of 2019 and construction start of 2014, we have a peak con -- peak direct employment at about sixteen 14 15 hundred (1,600) in around 2016/2017. For the Keeyask 16 transmission project, it's about two hundred (200). 17 The peak for Conawapa is about twenty-18 one hundred (2,100); just for the generation. We 19 haven't figured out transmission yet relation -- in 20 relation to that. And assuming a construction start date of Conawapa about 2018, if we're assuming an -- an 21 in-service date of 2026, we'd be looking about 22 23 2022/2023-ish for a peak; something like that. 24 THE CHAIRPERSON: Thank you. Thank you 25 for that. Next, I quess?

CONTINUED BY MR. DOUGLAS BEDFORD: 1 2 MR. DOUGLAS BEDFORD: We'll turn now to Dr. Shaffer, and we are at Exhibit 129, the sixth part, 3 129 - 6.4 5 DR. MARVIN SHAFFER: Thank you. As 6 mentioned earlier, I'm a consulting economist, and I 7 teach in the public policy program at Simon Fraser University where I -- specifically I teach a course in 8 9 benefit cost analysis. And I was responsible for the 10 multiple account benefit cost analysis that's presented 11 in Chapter 13 of the NFAT submissions. 12 Benefit cost analysis is a technique 13 that economists use to assess projects, or in this case plans, from the point of view of society as a whole; in 14 15 other words, taking into account the consequences to everyone who is affected, and trying to assess the 16 17 significance of those consequences based on the values 18 that those affected hold; the tradeoffs they'd 19 willingly make, in economic language, their willingness 20 to pay or give up things in order to acquire the 21 benefits and -- and the maximum compensation they would require to -- to offset the negative, or to supply 22 23 labour and other inputs. 24 Multiple account benefit cost analysis 25 is a variation of that traditional benefit cost method

that recognizes that not all consequences can be 1 monetized necessarily, and also that distributional 2 consequences are important in decision making. 3 So in effect it's a disaggregated 4 5 benefit cost analysis that tries to capture the same 6 scope and the same -- with the same purpose, but not 7 necessarily to simply reduce it all to a bottom line, but rather a matrix of -- of consequences to the 8 9 different stakeholders and parties that are affected. 10 And this analysis was done to assist the panel. In --11 in addressing the terms of reference, it asked for the 12 consideration of the overall socio-economic benefit to 13 Manitobans; in the language of economists, the overall social net benefits to Manitobans. 14 15 A standard approach in benefit cost 16 analysis is to start with what -- basically the private benefits and costs -- the benefits and costs that 17 18 accrue to the project sponsors or proponents in terms 19 of the revenues they expect to receive, and the 20 expenditures they would incur, and then make a series 21 of adjustments where those revenues don't fully reflect the -- the benefits to, in this case, Manitobans; or 22 23 the expenditures don't fully reflect or take into 24 account all of the costs, and one makes a series of 25 adjustments for that.

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And that's basically the approach that 1 was taken in this analysis where I started with what's 2 called 'the market evaluation'; in other words, the 3 valuation of the outputs and the inputs at market 4 5 prices, which is basically Manitoba Hydro's incremental 6 revenues from their surplus sales revenues, and the incremental expenditures that they incur in order to 7 provide the power needed for domestic requirements and 8 9 -- and to produce the -- the surplus available for 10 export.

And -- and then the series of adjustments or other considerations follow the -- the set of accounts outlined in -- in this slide -- the valuation accounts where, under the 'Manitoba Hydro Customers' I should point out, and -- and this is or can be confusing, the -- the market valuation account basically captures the long-term cost to customers.

18 But we tried to capture in this account 19 was a distributional question, which is a different 20 question. It's not just what is the best from an 21 overall long-run resource point of view; but how does the rates affect customers in the short versus long-22 23 term? When I say "short", I really mean short to 24 medium versus long-term. So we looked at the 25 cumulative rates to the short-term/medium-term impact

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and the -- the longer-term consequence. 1 2 We also, in the customer account, recognized that while all of the plans that -- that we 3 analyzed meet Manitoba Hydro's reliability criteria, 4 5 they're not all the same in terms of the reliability 6 they -- they provide. And so there's a difference to 7 the quality of supply, in -- in effect, and that's got 8 to do with the -- the load-carrying capability and the 9 expected loss of load under contingent circumstances that can arise. 10 11 The Manitoba Government account is 12 looking at the question: Well, what -- what do the 13 different plans mean to taxpayers, to the Manitoba Government? Because embedded in Manitoba Hydro's 14 15 expenditures are a significant amount of payments to 16 government. And the question there is: What is the --17 the net -- the incremental revenue to Government, 18 revenues that are not offset by incremental costs? 19 They appear as a cost to Manitoba Hydro, but there's a 20 corresponding benefit to taxpayers. And that's what's taken into account in that Manitoba Government account. 21 22 In terms of the economy -- and this can 23 be a fairly confusing area for people not familiar with 24 benefit cost analysis. We have to spend lecture after 25 lecture with our students saying: Jobs are not

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benefits. Jobs are costs. You have to pay people to 1 work, and most people have alternative opportunities; 2 in other words, there is an opportunity cost, a minimum 3 amount they'd have to receive to willingly provide 4 5 their labour to a particular project. So what we are looking at here is not 6 7 the total number of jobs that might be created by a project, but rather the net benefits those jobs might 8 9 provide, depending on where those jobs are, who takes 10 up those jobs, and what their alternative employment 11 prospects or alternative activities would be; in other 12 words, what's the net benefit accruing from the 13 economic activity generated by the project. And that's 14 what we look at in the Manitoba economy account. 15 In the environment, a wide range of 16 areas here. There a mission impacts where we would look at the external cost. In the case of GHGs, we --17 18 we're looking at the social cost of carbon, and we'll 19 talk about the various estimates around that, less the 20 carbon charges that Manitoba assume they will have to 21 pay in respect of any GHG emissions in the future. 22 Criteria air contaminate damage costs, which are the --23 the particulate and NOx emissions associated with 24 thermal plants. 25 And then there's a full array of

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3651 biophysical impacts. The purpose of the benefit cost 1 analysis isn't to repeat an environmental assessment, 2 but rather to try to assess to what extent there are 3 significant residual impacts that haven't been 4 5 compensated, that -- that are in effect external costs 6 not reflected in the planning and expenditures of -- of 7 the projects themselves. 8 Similarly, in the social area, there's 9 community impacts. A very similar question is what are the residual effects? Are there external costs? Are 10 11 they of significant nature residual after all of the 12 mitigation and compensation efforts? 13 Also, the social account looks at 14 certain distributional aspects. Are there particulars 15 parties? In this case there are. The -- the Manitoba 16 Hydro's Keeyask partners who have particular interests 17 and positive and negative effects associated with the 18 project and are there more general social consequences 19 that haven't been taken into account. 20 And one (1) area that's addressed in 21 this is a bequest value, because of the value of the 22 assets remaining at the end of the planning period. We 23 take a residual asset value into account, but there's a 24 lot of reasons to believe that -- that Manitobans may 25 value that higher than what a discounted present value

of those future assets would be. 1 And finally, the analysis, particularly 2 the monetized aspect of it, was done for reference case 3 4 set of assumptions. In the risk account, call it, we 5 asked the question: Are there differences in the risk 6 profiles of a significant nature that might cause you 7 to want to choose a different option regardless of its expected net benefits? 8 9 I hesitate to put this slide up, the 10 discount rate. I understand everybody's interested in the discount rate. I can only say I understand there's 11 12 a few economists here, and I'm sure we'll get more than 13 a few opinions. 14 What I can tell you is in benefit cost 15 analysis it is very standard to use what's called a 16 weighted average opportunity cost of capital for the discount rate, in other words, to weight the future 17 18 consequences, the future revenues or costs to calculate 19 their equivalent present value. And that weighted 20 average opportunity cost of capital is trying to 21 capture the consequences for society, in other words, 22 to what extend do you diplace -- displacing investment by your investments, to what extent are you attracting 23 24 more savings, to what extent are you attracting more 25 foreign investment or foreign borrowing and what are

1 their respective costs.

And using that approach and relying on recent studies of -- of what that would be, I've applied a 6 percent real discount rate in monetizing or calculating the monetized present value of benefits or costs in the material in Chapter 13.

7 I did want to say -- and -- and there is no one (1) right discount rate. There are different 8 9 discount rates for different purposes and from the 10 perspective of different parties. In Manitoba Hydro's 11 analysis it used a discount rate reflecting its cost of 12 capital, not the social cost of capital from, you know, 13 the point of view of society as a whole, the cost of capital it faces in terms of its interest charges, its 14 15 debt guarantee fees, and a sufficient return on equity to be able to maintain its financial targets. And 16 17 that's its WACC and it's somewhat different than the 6 18 percent rate. I believe it's -- five point four (5.4) 19 is what Manitoba Hydro is now currently using. 20 And it's also different from what's 21 called a social time preference rate, which in the 22 financial analysis was used to weight and provide a 23 levelized indicator of the rate consequences over time,

24 where what you're trying to do is -- is apply the

25 tradeoff people would make between costs incurred now

3654 and in the future. I suspect we'll come back to that. 1 2 In the Chapter 13, in the initial work we analysed four (4) plans, a Preferred Development 3 Plan, a plan with a smaller tie, Keeyask and a smaller 4 5 tie, a plan with Keeyask and no interconnection, as 6 well as an All Gas Plan meeting domestic requirements as they emerge without any new interconnection or 7 8 sales. 9 And just moving to the next slide. The 10 reason for those plans is that they were designed to ask the key questions, which is we have plans with and 11 without Keeyask; in other words, is it better to meet 12 13 domestic load as it grows with gas-fired thermal or Keeyask? And we have plans with and without new 14 interconnections, to ask the question: If Keeyask is a 15 16 preferred method of meeting domestic requirements, is 17 it preferred to do that in conjunction with new 18 interconnection and sales opportunities? And that's 19 essentially why those plans, leading plans at the time, were selected for analysis. 20 21 In terms of the -- the assumptions, 22 sources and key points, I'll just try to -- I'll --23 I'll go through it quickly now and if you have questions, I'm sure they -- they will come up. 24 The

25 market valuation account is basically the analysis of

1 the alternative plans from the point of view of
2 Manitoba Hydro and its project partners. And I relied
3 on the incremental revenues, export revenues, and
4 expenditures, capital and operating system operation
5 expenditures that resource planning developed for those
6 plans.

7 I also relied on their estimate of the
8 residual asset value based on their projections of what
9 the assets remaining at the end of the planning period
10 beyond 2047 would provide, discounted back to 2047.

In the Manitoba Hydro customer count I 11 12 relied on the financial analysis that Manitoba Hydro 13 undertook to estimate rate consequences, cumulative rate consequences to 2032 and to 2062, the short to 14 15 medium versus the long-term effects. I also relied on 16 a reliability study in the appendix to, I believe, 17 Chapter 13 to address the question: Are there 18 differences in the -- in the reliability offered by the 19 different Plans that we analysed?

The Manitoba government account. I did want to emphasize, this wasn't -- and -- and in many respects this analysis was done conservatively. This wasn't trying to identify all of the revenues that the Manitoba government might real -- might see as a result of this project and the economic activity associated

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3656 It was trying to identify those incremental with it. 1 revenues not offset by incremental costs, revenues they 2 wouldn't otherwise receive, revenues that aren't there 3 to offset either costs or risks it's incurring. 4 5 And, therefore, it was confined in the 6 Manitoba government account to solely considering water 7 rentals, as well as capital taxes. It didn't include, for example, the very sizable debt guarantee fees 8 9 because those fees are in some respect there to 10 recognize the -- the debt guarantee that the government 11 is providing, and there are -- there are costs or risks 12 associated with that. It didn't include the assumed carbon 13 14 charges or coal taxes because those are, indeed, part 15 of what would otherwise be an environmental 16 externality, some payment for the carbon emissions. Ιt 17 didn't include the economic impact estimated sales 18 taxes, and -- and the like, worker income taxes, on the 19 assumption that for the most part, with the exception 20 we'll talk about in just one (1) second, economic 21 activity -- people are working, and if they wouldn't be 22 paying taxes on this project they'd be paying taxes on 23 other projects. And to the extent you attract people 24 into the province who will be paying taxes, they 25 require incremental services. So to be conservative,

1 we didn't include those either.

2 The Manitoba economy account, as I mentioned earlier, what we were trying to estimate 3 again conservatively was what economists call the 4 5 economic rents, the difference between the wages paid 6 in the project that are built into Manitoba Hydro's 7 expenditures and the opportunity cost of the workers, the value, the wages they might have otherwise have 8 9 earned, or the value of the activities they might have otherwise engaged in, and that's what we looked at. 10 11 It did dif -- we made assumptions based 12 on employment conditions where employment condition --13 employment created in northern Manitoba filled by northern Manitobans would provide greater net benefits 14 15 and employ -- other employment created in the province 16 because of the markedly different employment opportunities and circumstances of the workers there. 17 18 We didn't include any net benefit for 19 the in migrants which is a sizable estimate of the 20 workforce because this was trying to take a Manitoba 21 point of view. And we included just a fairly modest net benefit for all other Manitobans, recognizing that 22 23 for the most part they have alternative employment 24 prospects though there would be net benefits from the 25 high-wage jobs these projects could provide.

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3658 On the environment. With respect to GHG 1 2 emissions, what we estimated included in the net benefits or net costs were the emissions in Manitoba. 3 We looked at the difference between estimates of the 4 5 social cost to carbon based on recent Canadian and US 6 studies, and conservative estimates at that, versus the 7 carbon charges that were assumed and already taken into account in the Manitoba Hydro expenditures. 8 9 With respect to criteria air 10 contaminates, we looked at European studies of -- of damage which are basically health costs associated with 11 12 a particulate and NOx emissions. They're relatively small but we included estimates of -- of those costs. 13 14 With respect to biophysical impacts. As 15 I said before, what we looked at and tried not to 16 repeat, there's better experts here and you've heard a lot of material on it today, with some understanding of 17 18 what residual effects remain, and whether, you know, 19 those residual effects have been in some respects 20 minimized or offset by the -- the benefit agreements 21 and the compensation agreements, and other measures, 22 and that's what's provided in the report. 23 In the social area, too, very similar, 24 we're trying to look at what residual, if any, 25 significant effects remain. And -- and both in the

3659 social and the environment, we recognize that there 1 will be non-monetised consequences and, in some 2 respects, those provide the trade-offs to the extent --3 those will be examined in detail in -- in environmental 4 5 hearings, but at the end of the day, they -- they 6 provide some measure of the tradeoff, and one has to 7 judge whether the monetised net benefit offsets whatever non-monetised factors you -- you have. 8 9 And in the risk account, what we looked at in chapter 13 is basically -- and I -- I'm not sure 10 11 if you've already gone through it -- the S-curve 12 analysis looking at the different performance of the 13 different plans under varying assumptions about capital 14 cost, export prices and interest rates. 15 In the interest of time, I'm not going 16 to try to run through all of the -- or I'll go through very quickly the -- the reference scenario results. 17 18 These are the results based on the -- the original ref 19 -- reference case set of assumptions. 20 And you'll see in the market valuation, 21 this is expressed not in terms of the net costs, but 22 rather the net benefit, what -- what advantage is there 23 all relative to the Preferred Development Plan, and 24 you'll see the small tie had some modest net benefit, 25 in other words, less net cost to -- to meet domestic

load. Both the -- the Keeyask without the new 1 interconnection and the All Gas had significantly more 2 net costs, in other words, a -- a net cost as compared 3 to the Preferred Plan. 4 5 In terms of the customer account, again, 6 you probably would have discussed this earlier. The 7 Preferred Development Plan shows higher cumulative rate increases in the first twenty (20) years and lower over 8 9 the long term. 10 In terms of reliability, the Preferred 11 Development Plan offers greater load-carrying 12 capability than the others and less expected loss of 13 unserved energy due to contingent circumstances, and 14 greater ability to -- to manage drought. 15 I should say, in -- in the report you 16 will see some estimates of the magnitude of that, it's not insignificant, in the order of \$100 million of 17 18 reliability benefit of the Preferred Plan over, for 19 example, the All Gas, but that wasn't included in the 20 overall monetised net benefit because of potential 21 uncertainty about how to measure the cost of unserved 22 load, depending on the exact characteristics of the 23 unserved load; when it takes place, the duration, with 24 what advance notice, and the like. 25 You'll see in the Government account,

23

jurisdictions.

3661 the Preferred Development Plan is significantly more 1 beneficial than the others. And -- and that's because 2 imbedded in the expenditures in the Preferred 3 Development Plan are a lot of capital taxes and water 4 5 rentals that aren't there to the same extent in the other Plans. 6 7 Similarly, under the Manitoba economy, you'll see there are net benefits of the Preferred 8 9 Development Plan relative to the others, and that's 10 because of the, not only the greater amount of 11 employment, but the greater amount of employment 12 located in regions where the employment opportunities are least. 13 14 GHGs, just monetised the GHG emissions 15 within Manitoba and the Preferred Development Plan has 16 the -- the least and -- and, therefore, their net costs 17 associated with the other Plans relative to that, 18 particularly the All Gas Plan. 19 We didn't monetise, but the Preferred 20 Development Plan also has benefits in terms of its 21 impacts on GHG emissions globally because of the 22 displacement of thermal generation in other

24 We didn't monetise that because while we 25 think there's a value to that, we weren't sure what

3662 willingness to pay there would be among Manitobans to 1 reduce emissions in other jurisdictions. 2 3 Just continuing on the next page, with respect to CAC criteria air contaminants, NOx and 4 5 particulates, there are, again, relatively small but 6 some -- some costs associated with that in the other 7 Plans relative to the Preferred Development Plan. 8 And with respect to the residual 9 biophysical, certainly, you've heard today there's been tremendous efforts, both in the original design but 10 also in the planning, implementation, mitigation, 11 12 monitoring, compensation, other arrangement, to -- to minimize that and to offset that. 13 There could be some non-monetized 14 15 residual effects remaining, but in a very large sense, 16 at least for the people in the immediate vicinity, a large part of that has been internalized in the 17 18 expenditures, and plans, and benefits sharing 19 arrangements that are -- that are -- have been 20 developed for this project. 21 In social, there are net returns to the partner, which is really a distributional effect that 22 23 some of that market evaluation is occurring to the --24 the project partners. 25 Wide range of community impacts, again,

look through the project planning. All efforts have 1 been made to -- to minimize those, to minimize the 2 residual consequences associated with that. 3 Resource of impacts on Manitoba 4 5 generally, as I mentioned earlier, there could well be 6 values that Manitobans hold in respect to the type of development. There could also be what we've called a 7 bequest value, which is some willingness to pay for 8 9 those assets that are being left at -- at the end of 10 the planning period that goes beyond the discounted 11 present value of those residual assets we took into 12 account. You see the overall monetised net 13 benefit is -- for the Preferred Development Plan in --14 15 with this reference case set of assumptions done at the 16 time of the filing is significantly greater than the small tie, greater than Keeyask/Gas, and -- and greater 17 18 still than the All Gas. 19 Since the filing was made we've done 20 some sensitivity analysis. And that sensitivity 21 analysis was done in part to deal with questions that 22 no doubt were going to come up, because there's new 23 capital cost estimates now available. It's not shown 24 on this slide, but it's also dealing with the fact that

25 Wisconsin Power Service is not expected to be investing

3664 in the transmission lines, so changes in the Preferred 1 Development Plan, changes with respect to that. 2 And the analysis was extended to include two (2) other 3 contending plans to look at how they would perform, 4 5 basically a plan like the Preferred Development Plan 6 but with Conawapa deferred to 2031 and a plan like the 7 Preferred Development Plan in terms of a large interconnection, but without Conawapa, but rather 8 9 followed by -- by gas. And that's Plan 6 and Plan 12. 10 And here the results -- and -- and they 11 -- they are different than the reference case results I 12 went through before. You will see that the Preferred 13 Development Plan in terms of the monetised net benefits 14 still exhibits the -- the greatest net benefits in 15 terms of what was monetised. But Plans 6 and 12, which 16 are the -- the two (2) large interconnection plans, one 17 with a deferred Conawapa, one with gas following 18 Keeyask, have, for all intents and purposes, very 19 similar monetised net benefits and are preferred from a 20 market valuation point of view, in other words, 21 preferred in terms of the next expenditures Manitoba 22 Hydro and its project partners would -- would incur. 23 And you still see the Preferred 24 Development Plan providing greater benefits for 25 government in terms of the economy, in terms of the

3665 environment, though in some of those to a lesser extent 1 than before. 2 3 The key findings, and -- and I think this holds from -- from the very first analysis through 4 5 to the sensitivity analysis, it is advantageous to 6 develop Keeyask as opposed to gas to meet domestic 7 load. And it's more advantageous to do that with a -a new interconnection. 8 9 The advantage increases as one moves 10 from a Manitoba -- narrow Manitoba Hydro to a broader social point of view and that's because of -- of the 11 12 large amount of expenditures Manitoba Hydro's incurring 13 that are effectively not reso -- real resource costs, 14 but rather transfers to government, because of the GHG benefits, because of the employment benefits. 15 16 In terms of key distributional issues, 17 with the Preferred Development Plan you do have to 18 consider the fact that there is some short-term pain 19 for long-term gain, that the cumulative rate increases 20 would be greater in -- in the first twenty (20) years, but much less over the longer term. And in terms of 21 22 non-monetised, as I mentioned before, though Manitoba 23 Hydro's analysis and assessment considers those to be 24 minimized, to -- as -- certainly as much as possible and the -- the residual effects will be limited both in 25

scope and in duration, they still remain as a non-1 monetised effect. 2 3 There are, as well, I should mention, non-monetised effects that favour the -- the Preferred 4 5 Development Plan in terms of reliability, GHG effects 6 globally, and -- and some of the social advantages of 7 this plan in terms of the opportunities it provides where they're sorely needed. 8 9 Uncertainty and risk. The S-curve 10 analysis indicates upside and downside risk for all of 11 the plans, though I think it's fair to say that the 12 Preferred Development Plan has the greatest upside but 13 also the greatest downside risk of -- of all of the 14 other plans. All of the other ones, including those 15 two (2) new ones that I introduced in the latest 16 17 analysis are fairly similar in the sense they have 18 relatively low downside risks. The ones with the large 19 interconnections have the greatest upside risk. The 20 All Gas has the least upside risk -- upside potential, 21 I should say. 22 The overall conclusions. From -- from 23 this analysis and -- and I think it is the qualitative 24 conclusions that's important in these analyses. We can 25 get all tripped up over numbers but the numbers are

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3667 really meant to be indicative of -- of relative 1 significance. The analysis does support the 2 development of the Keeyask generating station as 3 compared to the All Gas option to meet, and that's true 4 5 from a Manitoba Hydro point of view and it gets even 6 more pronounced as you move to a social perspective. 7 Again, as I said earlier, there are greater net benefits with a new interconnection than 8 9 without. The Preferred Development Plan offers the greatest monetised net benefits, but not necessarily 10 11 from a Manitoba Hydro perspective relative to those two 12 (2) other large interconnection plans I mentioned, and 13 -- and not necessarily from a customer perspective in the short to medium term. 14 15 And as to the question of deferring 16 Conawapa or no Conawapa, these will be important considerations potentially in the future. They are 17 18 clearly competitive plans in terms of offering net 19 benefits that are comparable without some of the 20 adverse consequences of the Preferred Development Plan. 21 And -- and that's, I apologize, a very 22 quick overview of fairly dense material. 23 24 (BRIEF PAUSE) 25

3668 DR. HUGH GRANT: I just have -- I'm 1 going to say one (1) thing and then I won't speak again 2 throughout the entire hearings. And I'm not going to 3 speak about discount rates, but I actually think --4 5 well, I will actually. 6 I think the rate you use is pretty high, and in that sense is probably appropriate because it's 7 bias against the Preferred Development Plan in that 8 9 respect, so it's a cautious kind of approach. But I 10 asked a question a week ago or so, and after going 11 through Chapter 13 my question was: I don't see the 12 true social cost benefit analysis here, but I think I'm 13 clear now, is -- is what you're calling overall monetised net benefit would be that residents of 14 15 Manitoba need a social cost benefit? Okay. 16 And so the important component here are 17 these capital taxes and water rights which when you do 18 the market valuation are treated as a cost to Manitoba 19 Hydro but when you do a proper -- proper -- the overall 20 social perspective they're not a true cost because 21 they're just an income transfer. Is that... 22 DR. MARVIN SHAFFER: That -- that's 23 clearly a main component. Just going back to your 24 first comment. The monetised net benefit would be very 25 comparable to what would be done in a traditional

3669 benefit cost. And -- and I'm just cautious of just 1 right -- jumping right to that number without the 2 disaggregation and the mention of the distributional 3 and non monetised effects because there are criticisms 4 5 of benefit cost analysis that you can't adequately take 6 into account all effects in -- in one (1) bottom line 7 number. 8 So while I agree with you it's a very 9 important number, it provides the -- in a sense what we 10 can, I think, reasonably measure and -- and I -- I would agree with you that we've done this 11 12 conservatively. The only difference between what maybe 13 you asked for a couple of weeks ago, or -- and what I 14 presented is I -- I presented it in a disaggregated 15 way. And -- and as far as the discount rate 16 goes, you're quite right. There's a lot of research 17 18 lately that's arguing for lower discounts to be used, 19 but I think this is a reasonable rate to use in terms 20 of traditional benefit costs of weighted average 21 opportunity cost of capital, and we'll hear people 22 arguing for higher and lower, and it really depends on 23 what weight you want to assign to future consequences. 24 DR. HUGH GRANT: Okay. Just to follow 25 up on one (1) thing, and -- and it was really picking

3670
1 up on a comment in the La Capra report. I think it was
2 La Capra. I understand that there's no do-nothing
3 scenario. So in other words, what we're considering is
4 a net present value in a relative sense of these
5 different plans.
6 But I think for me right off the bat it

7 was just to say: Does the Preferred Development Plan have a net present value greater than zero? Right. 8 9 And -- and so I think La Capra's saying when you -when you drop out these -- if you did sort of a market 10 11 valuation, in a sense, and dropped out these income 12 transfers, then, in fact, they're actually positive, 13 right, so -- and it gives you some sort of assurance 14 then that these projects are really worth doing. Then 15 we worry about the distributional aspects, but... 16 So I under -- I understand why you do it 17 in the relative sense, but it just sort of gives 18 comfort to know that these are actually profitable 19 investments, in a social sense, and then we can sort of talk about how the benefits should be distributed. 20 21 I guess that's what I was having trouble 22 finding in the initial report. 23 DR. MARVIN SHAFFER: If -- if I could 24 just make one (1) comment, too. It is important to 25 recognize all of these plans, and this is why there's

3671 no do-nothing, truly do-nothing option, have as a basic 1 requirement that they -- they have to be capable of 2 meeting Manitoba Hydro's load and load growth. And so 3 they're -- although it's not monetised, there is the --4 5 the value of meeting that load that you would have to 6 add to get, I guess, what you're -- you're trying to 7 get at is a total rate of return on the project. 8 But in some respects, the differences in the plans are the -- the rate of return, the -- the 9 positive return from going from, let's say, an All Gas 10 11 to hydro, and then going from a hydro to hydro with 12 interconnection and sales. 13 THE CHAIRPERSON: Are you in a position 14 to comment at all about the negative or the positive 15 consequences of taking money from the pocket of the 16 ratepayer and putting it to the pocket of the taxpayer? 17 You know, the -- you take money from one 18 (1) pocket and put it in the other pocket, they --19 DR. MARVIN SHAFFER: You mean in terms 20 of the capital tax and water rental policy? 21 THE CHAIRPERSON: That's right. 22 DR. MARVIN SHAFFER: I -- I do have 23 views on that, but I don't know if it's appropriate to 24 -- to address them. It's certainly nothing to do with, 25 you know, in -- in other jurisdictions. My own view

3672 is, you know, I think we all agree that conservation is 1 -- is important. And -- and if conservation's 2 important, prices have to be important. And tax policy 3 is a way of -- of addressing that. 4 5 So I -- I quess I would say two (2) 6 things. One (1) is, I wouldn't necessarily agree with 7 those who suggest we should elimi -- and I hear this --I'm going to talk about British Columbia where I find 8 9 where people say, Oh, we should reduce taxes to reduce 10 That would be appropriate if rates were way out rates. of line with the marginal cost of new supply, but 11 12 they're clearly not in Manitoba and British Columbia 13 and Ouebec. 14 But I would say if there are concerns 15 about distributional rate consequences, like short-term versus longer term effects and you've got a long-term 16 benefit but a short-term problem, there is a fair bit 17 18 of room there for government to deal with that through 19 its taxation policies. In other words, it -- it could 20 in its -- move forward the recovery of -- of the taxes 21 it wants in order to -- to align better with the longterm benefits of these projects. So there's 22 23 opportunity there. 24 25 (BRIEF PAUSE)

3673 THE CHAIRPERSON: 1 Following up on that 2 just to explore that a little bit further, to the extent that you captured the effects, the positive, or 3 pardon me, the monetised and non-monetised effects of 4 5 the Preferred Development Plan and the other 6 alternatives, the balance sheet benefits of the money accruing to the government would be captured in the 7 total calculations, would they? 8 9 DR. MARVIN SHAFFER: The -- the benefits to government by -- by which we mean the --10 11 the revenues that they wouldn't otherwise received. In 12 other words, if -- if Keeyask and Conawapa didn't go 13 ahead the government wouldn't receive the capital taxes 14 associated with that, nor the water rentals associated 15 with the production from those plants. And those 16 aren't taxes that are trying to recover some specific 17 costs that government's incurring to support those 18 projects. 19 So, yes, the -- the -- at the bottom 20 line, recognizes those as transfers to government, not 21 real resource costs. So they are captured in the -- in

22 the bottom line, not in the market valuation, not from 23 the point of view of Manitoba Hydro itself and its partners who have to pay those, they're expenditures, 24 25 but we make the adjustment by recognizing those aren't

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real social costs. Those are, in fact, offsetting 1 benefits to taxpayers. 2 3 THE CHAIRPERSON: Thank you very much. 4 In terms of timing, I'm looking at the clock. How much 5 time do we need to do the next presentation, Mr. 6 Wojczynski? 7 MR. ED WOJCZYNSKI: This is the last presentation, and it's twenty (20) to twenty-five (25) 8 9 minutes, assuming there aren't lengthy questions. And 10 questions are very welcome. I'm just being a 11 timekeeper. 12 THE CHAIRPERSON: Please. We're 13 waiting with bated breath. 14 MR. ED WOJCZYNSKI: Okay. Before we 15 actually get into the presentation, I thought I'd like 16 to expand on the discussion of water rentals, not so much water rentals, the capital tax and water rentals, 17 18 sorry, that was just had in the questioning. 19 And this is an issue that was explored 20 in the interrogatory process and we dealt with there, and I think I'd like to draw it out here. 21 22 There may be an impression that over the 23 long term where we have previously -- and I will again 24 now, and Dr. Shaffer just did, talk about the net 25 present value of the transfers to the Province being a

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societal benefit. 1 2 I'd like to just ex -- emphasize that tho -- those NPVs do not come from Manitoba tax --3 ratepayers. That is not a transfer. That NPV amount 4 5 is not a transfer from ratepayers to taxpayers. Those 6 NPVs over the life of the projects come from the export 7 market. 8 However, there is this distributional 9 issue. In the short run, when you have slightly higher rates in the, say, Preferred Plan or the 750 Plans 10 compared to, say, the All Gas Plan, when you have 11 12 somewhat higher rates, then some of those water rental 13 capital taxes are coming from the ratepayers. 14 But when you look over the life of the 15 project, that -- those NPV numbers that we present, 16 those are all coming -- in the end, are netted from the 17 export market, not ratepayers. 18 And we did have a number of 19 interrogatories in that process as well, and we can 20 expand on that if you like, but I just -- I just want 21 to make sure that was clear. 22 THE CHAIRPERSON: Let's leave that one 23 to -- to -- let's leave that one for the time being. 24 MR. ED WOJCZYNSKI: Yeah, I -- I could 25 explain using the NPV, but that's another discussion,

3676 perhaps, and so moving on to the last presentation out 1 of our four (4) weeks, so I'm sure everybody in the 2 room is glad this is the last presentation in these 3 four (4) weeks and, of course, I'm stuck giving the 4 5 last one again, but I'm glad to do that. 6 So what this is doing is integrating and 7 summarizing at the highest level the information from the last four (4) weeks and, to a fair degree, trying 8 9 to put in one (1) place the most recent information on 10 the economic updates recognizing and -- and our 11 conclusions -- recognizing, as we've talked earlier, on 12 April 4th that there will have been undertakings and 13 further exhibits on both the economics and particularly on the financials, and on that day we'll be going 14 15 through those results and then presenting any new 16 aspects of the conclusions, but, so what I'm presenting now is the summary conclusion given everything we have 17 18 -- we have had so far. 19 This table, I think you've seen versions 20 of this as we've gone along, and what it is, it's the -- the -- the market valuation or the cor -- the 21 22 corporate benefits, the same values that Ms. Flynn and 23 I have been talking about the last few weeks. 24 And it's -- it's the 2014 NPV with the 25 most recent capital costs that are being updated with

the WPS sale finalized and the -- the investment 1 removed from the transmission, and with all the 2013 2 cost information, and using the 5.4 percent discount 3 4 rate. 5 We have the four (4) columns and there's 6 each of the levels of DSM and, just to remind you, you -- you only -- with this table, you -- you have to look 7 at the -- the column and stay within the column going 8 9 up and down. You can't go across the rows to compare 10 numbers. 11 And what I'll -- what I'm going to just 12 jump to is Level 2 DSM. We've got all four (4) levels 13 here. As you will recall from the economics, we 14 concluded Level 2 was the appropriate -- the economic 15 level from a TRC test, and that we probably aren't 16 going to do all of Level 2 DSM, but I think for this discussion we'll just stick with Level 2 DSM, and we've 17 18 done it with and without the pipeline load. 19 And you see in here that the Preferred 20 Plan passes the NPV test but -- but not by large 21 amounts, only \$45 million, but it is positive. So we 22 passed that NPV test, and if you've got a positive 23 number what that says is you should be going ahead. 24 But we have to look at all the others, of course. 25 Plan 5, which we have explored

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3678 previously, is the Keeyask19/Gas/750 with the WPS sale. 1 You've seen that number before, 410 million, so it's --2 actually in that comparison they've got a larger number 3 than the Preferred Plan. What you have not seen before 4 5 is the Plan 6 number of three eighty-six (386). We had 6 indicated we were going to provide it. I am hereby providing it. And there will be exhibits -- pardon me 7 -- yeah, exhibits provided by Hydro probably later on 8 9 this afternoon that give the cash flows and the capacity energy tables for that. So -- and then we --10 11 if you look at the pipeline load added in for 5 and 14 12 you see there's a slight modification to those numbers. 13 So I'm just going to move on from that 14 and just focus on the Level 2 DSM without the pipeline 15 load, just to be able to have a -- one (1) set of 16 numbers, and we're probably looking at a load that is 17 somewhat higher than that down the road than we're 18 going to use, but it's close enough and maybe even a 19 bit conservative by doing that. 20 This is the same numbers for Level 2 DSM 21 without the pipeline, and just presenting it in this 22 chart, and you've seen this chart before so I'm just --23 just showing you where we're starting from.

24This is the one now -- we have a few25things on here. First of all, the dark blue again is

1 the same corporate numbers, and the light blue is -2 what we have done here is we have the -- and we've
3 presented this before in the economics panel. What -4 the light blue is -- is how much return on equity we
5 have embedded in our WACC calculation. And we have an
6 overhead that explains that but I'll just do it
7 verbally now.

8 When we get a -- let's say a zero when 9 we do our NPV at WACC, what that -- that is saying that there is -- 25 percent of our WACC is based on -- on 10 equity which has a 3 percent premium on the borrowing 11 12 rate. So what we do is we take the 5.4 percent 13 discount rate, we recalculate it to 4.65 percent 14 discount rate, which is our cost of -- Manitoba Hydro's 15 cost of borrowing including the debt guarantee fee, and we calculate the difference, and those are these 16 numbers we see here: 737, 742, 1319. 17

18 That is the return on equity above 19 borrowing that we get for each one (1) of those plans in addition to the -- the net benefit that's the dark 20 21 blue numbers. So those add up -- the -- the equity 22 available to Manitoba Hydro for each one of these plans 23 compared to All Gas are these numbers here, 1.1 24 billion, 1.2 billion, and 1.4 billion, and that's above 25 the All Gas Plan.

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3680 1 If you go to the bottom half, it's exactly the same plans and information but adding in, 2 on the green, adding in the capital tax and the water 3 rental similar to what Dr. Shaffer did in his social 4 5 benefit cost analysis. And -- and then we have in the red, we have the provincial guarantee fee, the debt 6 7 guarantee fee. And we have separated those. 8 Rather than just have one (1) lump sum, 9 we've kept them separate because on the provincial quarantee we realize there's a bit of an issue that 10 Manitoba Hydro is getting a service for that; the 11 12 province typically isn't getting -- having a cost, but 13 there is ultimately some residual risk. So rather -so we let the -- the reader choose to include the debt 14 15 guarantee fee in their thinking, or just go to the 16 capital tax and water rental, which clearly is a pure 17 tax. 18 And what we did with these is add -- WPA 19 had suggested in -- excuse me one (1) second. On page 20 52 of their -- of the MPA report, and commenting on 21 these capital taxes and guarantee fees, they say: 22 "The time value of money for 23 governments is very low, or, 24 arguably, for governments the time 25 value of money should be equal to its

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1	weighted average real cost of debt,
2	which should be substantially less
3	than 6 percent."
4	So what we have used here is the 4.65
5	percent, which is actually not the government's cost of
6	debt, it's Manitoba Hydro's cost of debt, but we
7	thought that that would be perhaps the most appropriate
8	way to show what that benefit it. So if you add all of
9	those together the two (2) plans with the 750 megawatt
10	tie-line but no WPS and with Keeyask/Gas give us around
11	about \$2.3 billion all together benefit to Manitoba
12	Hydro, a return on equity, and transfers to the
13	province. If you go for the Preferred Plan it goes up
14	to \$3.7 billion.
15	So moving on, this is exactly the same
16	table Mr Dr. Shaffer's presented. I'm not going to
17	go walk you through it. Obviously, you've just seen
18	it, he just presented it. I included it in here
19	because what we're trying to do with this last
20	conclusions presentation is pull together the pertinent
21	information that's available at this point for you to
22	consider. So I am not going to run through this again.
23	It's here for a a summary package.
24	This overhead, this has been addressed
25	in the original submission in Chapter 14 to a fair

3682 degree. We haven't been talking about it, so I -- we 1 thought it was time to bring this up again. When we do 2 the economic evaluations, we do the financial 3 evaluations, and we do the social benefit cost 4 5 evaluations, they're all based on certain assumptions. 6 And there are some assumptions, or data, that we don't 7 include in the evaluations, which would enhance the -the attractiveness of the plans compared to -- to what 8 9 we are dem -- showing you. 10 The first is you -- you've heard quite a 11 bit about there are additional export contracts that 12 are under negotiation or will be, and we fully expect 13 we will get at least some of those, and so the benefits 14 will increase relative to what you've seen. 15 Secondly, as Dr. Jacobson presented last 16 week, the 750 megawatt interconnection capability under more recent studies has been firmly shown to be 883 17 18 megawatts export and import at no additional cost, for 19 the same cost we've been talking about. And the -- it could be, and likely will be, upgraded to 1,100 20 21 megawatts with no cost to Manitoba. There -- there would be some cost in the US and whether we'd have to 22 23 participate in that or not is a -- a second issue. But 24 there's a lot of -- but we'd get another 133 megawatts 25 of import/export capacity that actually should be on

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1 our analysis, which would be -- which would be
2 noticeable.

3 The next one is -- is one that Mr. Cormie talked about in his evidence recently and that 4 5 is, if we have a new interconnection which accesses 6 Wisconsin, which isn't a market we've had good access 7 to, that increases, roughly doubles the number of market players we would interact with and provide us 8 9 some competitive edge that we haven't had so far and 10 effectively would increase our overall export market price compared to what we are using now as a forecast. 11 12 Fourthly, as we have talked about in 13 this submission, is Manitoba Hydro right now is assuming that we would look after, I believe it was --14 15 it was over 50 percent, 60 percent of the transmission 16 costs in the US either through investment or through 17 other means, and our expectation is that that will be 18 transferred to other players as we go along in the 19 negotiations and the cost to us would reduce and the benefits would increase. 20 Lastly, and -- is that the inter -- our 21 22 modelling of the interconnections understates what the 23 operational benefits would be from expanding the

24 interconnections. We don't have a solid number that we 25 can give, but it'd certainly be in the -- the many

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3684 multiple tens of millions of dollars and could be 1 elucidated but I don't think I'll go through the 2 details. We're already running out of time today. 3 So moving on, Manitoba Hydro's 4 5 perspective is the conclusion is that we should proceed 6 down Path -- what we've called Pathway 5. What that would mean is starting construction this July on 7 Keeyask and proceeding with the 750 interconnection. 8 9 And if I can give you a piece of news that if need be 10 Ms. Pachal can expand on, and that is that I had 11 indicated earlier that on April 4th, or by April 4th --12 DR. HUGH GRANT: Can I interrupt? 13 MR. ED WOJCZYNSKI: Oh, sorry. 14 DR. HUGH GRANT: I don't want to mess 15 your -- I know we're coming to the grand conclusion, but I'm under some distress here. 16 17 MR. ED WOJCZYNSKI: Sorry. 18 DR. HUGH GRANT: Could we take a break? 19 Then I could come back and give this my full attention. 20 MR. ED WOJCZYNSKI: Yes, I -- I 21 appreciate and understand that problem and I'm glad I'm 22 not the only one who wants to deal with these issues. 23 DR. HUGH GRANT: Meet you there. 24 THE CHAIRPERSON: Okay. Let's -- let's 25 take ten (10) minutes.

3685 1 --- Upon recessing at 2:48 p.m. 2 --- Upon resuming at 3:02 p.m. 3 4 5 THE CHAIRPERSON: I believe we're ready 6 to resume the proceedings. I think you're on slide 7. 7 MR. ED WOJCZYNSKI: Yes, I'm on slide 8 7. Thank you, Mr. Chair. 9 I was just going to give some good news 10 and -- and that good news is not that we're having a break, although that was good news, that I had 11 12 indicated a few times over the last three (3) weeks 13 that on -- by April 4th or before, Manitoba Hydro would be in regular discussions with DFO, and CEAA, and the 14 15 other federal agencies, and that, on April 4th, we have 16 to make a commitment to the general civil contractor whether or not they should proceed with, excuse me, 17 18 proceed with the major purchases of equipment, the 19 hundred million dollars of heavy equipment that we've 20 talked about, and take other steps to prepare for a 21 early July construction start. 22 And that was, to a high degree, 23 predicated on the confidence Manitoba Hydro has that 24 the federal licensing and authorization process could 25 yield us permits and authorization in time for an early

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1 construction start.

And it's not that we have a guarantee that they'll give us the authorizations or that they'll be done in time, but that we think that -- that, based on the interactions with the Federal Government, that the schedule is doable for that time frame.

7 And there have been ongoing discussions. I'm not party to them, but Ms. Pachal -- Pachel is and 8 9 her staff. And right now, the -- the -- we have at this point sufficient confidence that that schedule is 10 11 doable for us to proceed. And I expect that, unless 12 something happens between now and April 4th, the 13 indication we provide to the general civil contractor would be to proceed. But we will finalize that and let 14 15 you know once a firm decision has been made on that. 16 So just carrying on with the implementation. That was item 1. Item 2 we've talked 17 18 about quite extensively. We will annually review the 19 DSM plans. We are going to expand the DSM, exactly how 20 much and the timing and all the programs. 21 Thirdly, when we say, "Monitor Conawapa economics and in-service date," by that, as I -- as --22 23 as Ms. Flynn and I talked about previously, that we 24 have an annual power resource planning process. We'll

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have -- it will be informed by the progress on the

3687 negotiations that Mr. Cormie's doing, by load growth, 1 by DSM, by everything else that comes up as we normally 2 do. We -- we have a regular rigorous process for that 3 that is reviewed by our Executive Committee and, 4 5 ultimately, our board. 6 And by early 2018, if we want to go for 7 2026 Conawapa, that's when we would have our decision 8 and start construction. On the other hand, it's quite feasible that would be delayed a year or two (2) or 9 whatever, and that will be part of our -- our annual 10 process of reviewing. 11 12 The outcomes in Pathway 5 are -- are, we 13 have multiple possibilities. If eco -- if the monitoring of the economics and all of the other 14 15 factors is positive with Conawapa we would proceed with 16 it. And there could be an in-service date of 2026, could be something even up to 2031, as Mr. Cormie 17 18 talked about, and -- and we'd proceed with the WPS 19 sale. And that is what we've labelled "Plan 14." 20 On the other hand, this Pathway 5 21 implementation, if, for whatever reason, it's decided 22 Conawapa shall not proceed, or at least not in the foreseeable time frame, then we have two (2) outcomes 23 24 for that. One (1) is that Manitoba Hydro and WPS 25 mutually agree, as Mr. Cormie testified, that, yes, the

3688 WPS sale can be met from new hydro out of Keeyask and 1 we don't need Conawapa, and that's called Plan 5. 2 3 On the other hand, if Manitoba Hydro decides, or WPS decides, no, we don't want to carry on 4 5 with the WP sale -- WPS sale, then we go into Plan 6. 6 And that's some of the flexibility we've talked about. 7 I should add, what's not down here is, if we do not get a positive outcome on the 750 megawatt 8 9 interconnection approval, either from the Canadian NEB, 10 from the environmental process, or from the US approvals, then we -- then the WPS sale would not be 11 12 proceeding, and -- and that would change Pathway 5 as 13 well. As a matter of fact, we'd be right out of 14 Pathway 5, and we'd be flipping to another pathway. 15 The last comment I'll make on here is 16 that if Conawapa doesn't proceed and we end up with Pathway 5 or 6, both are attractive plans as well, as 17 18 we've just looked at in terms of the numbers. 19 Whoops. Let me see. Oh, hang on. 20 Okay, something's frozen here. It's a good thing we have MBAs helping engineers run computers. 21 22 What I'm now going to just do is 23 quickly, in our concluding presentation, address some 24 of the important issues that have been raised, and very 25 legitimately raised.

3689 1 Capital costs can go up. Wuskwatim's 2 capital cost went up, and so here we are with -- with Keeyask and with Conawapa, and we were asked questions 3 last week, and we have undertakings. What if the costs 4 5 increased up above our -- our new reference cost? 6 First of all, as Mr. Bowen and others 7 have testified, we have our Conawapa cost estimates -pardon me -- Keeyask costs estimates that we have right 8 9 now are in vastly better shape and more confidence than anything we had for Wuskwatim. 10 11 80 percent of the Keeyask contracts are 12 committed, either completed or committed. Wuskwatim, 13 essentially, we had none. 14 The Keeyask infrastructure project is 15 nearly complete. With Wuskwatim, we had not started 16 anything, and it was a huge source of delay and cost 17 increase. 18 Keeyask engineering, environmental, 19 Aboriginal arrangements are -- are essentially or 20 nearly complete for Keeyask. On Wuskwatim, when we 21 finish the NFAT process, we had to then to finish the 22 environmental process and the negotiations with -- with 23 We have all of that, essentially, in place here NCN. 24 today for Keeyask. Admittedly, Conawapa is further 25 down the road. The general civil contract is lead by

Bechtel, one (1) of the world's largest contractors,
 the one that built Limestone on time and within budget.
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We have learned in our whole contracting approach and our estimating, we've learned not just from Wuskwatim, but Pointe du Bois and many other Canadian projects that have happened over the last few years.

9 And our enhanced estimating methodology 10 encompasses this -- the new international understanding that large infrastructure projects tend to have higher 11 12 costs ultimately, so what we and others are doing, and 13 we've testified to this, our new estimate -- one (1) of 14 the reasons it went up as much as it did was to have a 15 sust -- an expanded understand -- incorporation of 16 systemic risks, which are -- deal with this tendency for the cost overrun, and that is now built into these 17 18 new estimates.

19 So our new estimate -- reference 20 estimate -- for Keeyask has \$590 million in for 21 contingency and reserve, and that's in base dollars. 22 If you go include interest and escalation, that's \$735 23 million that's available to deal with cost increases 24 above our point estimate. This is -- when you work it 25 out, this is 14 percent of the remaining cost to be

1 spent. We have in -- and an additional 14 percent to 2 cover cost increases.

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3 If you look at Wuskwatim from the point of the GCC award, the costs increased around 10 percent 4 5 from that point on to the final cost. Wuskwatim only 6 had a \$56 million base contingency and no reserve in 7 it. So the -- the conclusion from this is if we get, with Wuskwatim, a cost -- pardon me -- if we get, with 8 Keeyask, a cost estimate, that on a proportional basis, 9 10 is equivalent to what happened in -- in Wuskwatim, then the contingency and reserve that we have now in the 11 12 expanded estimate will cover that, and our reference 13 cost estimate would not have to change.

14 Carrying on with that. If by -- if it 15 does happen that the Keeyask costs increase, let's say 16 due to a general economy of lots of construction 17 happening, you wouldn't just see Keeyask costs 18 increase. You would see other hydro plant costs 19 increase. You would see the gas capital costs 20 increase. You would see the wind capital costs 21 increase, everything else being equal. 22 If instead it's not due to heavy 23 construction market and high commodity prices, if it's something unique to Keeyask, you know, we -- our plans 24 25 weren't good enough, there's something -- something

3692 that we just can't expect right now, and it's something 1 unique to Keeyask, then Keeyask would exper -- exhibit 2 that cost increase in any of the plans we have, not 3 just the 750 megawatt interconnection plans. 4 It would 5 be in there, for example, in Plan 2, where we only have 6 Keeyask for domestic load, and it would also occur if 7 we had a -- a delayed in-service date for Keeyask. 8 Lastly, there was concern expressed, and 9 this -- this Boar -- this Board quite reasonably and 10 understandably does not want to expose Manitoba Hydro 11 and Manitoba to a situation were we build Keeyask and 12 Conawapa, and we have these high capital costs occur 13 for both Keeyask and Conawapa. If, as I testified last week, if we have 14 15 a -- a situation where we're building Keeyask, and the 16 costs in Keeyask go to the high capital cost that's in 17 the new estimates, we will know that, and we will have a -- a near certainty on what the costs will be before 18 19 or by we make -- when we make the decision on Conawapa, 20 and unless something else changes, like high export 21 prices and high CO2 price, unless there's some 22 offsetting change, we would expect that Conawapa would 23 not proceed on that basis. 24 So there -- the -- we -- we don't see a 25 scenario where everything else stays the same, but both

3693 Keeyask and Conawapa go to high cost estimates and 1 we're exposed to that. We -- we would be exposed in 2 that world to Keeyask high cost, but we would not 3 proceed with Conawapa. 4 5 So moving on, another issue that does 6 arise is, Well, we've got some uncertainties. They're -- why not -- why not just push things back? We've got 7 some more DSM now, more than we expected when we did 8 9 the submission, so why don't we just wait a few years, 10 come back, and look at things then? 11 First of all, deferring -- well, I'll go 12 to the first thing. We have a window of opportunity. 13 If we now decide to throw away the six (6) years we 14 spent working with our US counterparties and not pursue 15 the Keeyask now, and thus throw away the 16 interconnection opportunity, and we want to come back 17 four (4) years or six (6) years from now, whatever, the 18 likely situation is we would not have the confluence of 19 events that -- and circumstances that we are now in that would allow us to -- to have this interconnection 20 21 infrastructure as an option. 22 Right now -- and I won't elaborate. 23 We've talked a lot about this. We've got -- the 24 utilities are in a structural situation, moving away 25 from coal. They're moving to a lot of gas. They're

3694 worried about overexposure to that. They're willing 1 and interested to develop an interconnection. 2 Regulators and governments and MISO are favourably 3 inclined to that. 4 5 We have our projects ready to go, or 6 nearly ready -- I'm talking about Keeyask, at least --7 supported by our First Nation partners. You heard that earlier today. And we're in a low interest rate 8 9 environment, so we see this as a window of an opportunity that likely would not be here five (5) 10 11 years from now, and I'll add to that what -- what Mr. 12 Cormie said. Our counterparties in the states, if we 13 walked away from this now, they would have a lot of 14 distrust that -- about entering into a prolonged 15 process with us again to -- to redo it, so that would 16 be another issue railing against having that option 17 later. 18 But there's a more fundamental issue.

By deferring the decision, that does not eliminate uncertainty. Most uncertainties would stay uncertain. People have talked about uncertainty in load growth ever since I started studying power resource planning, and that was, I hate to say it, back in 1976. That has been a big uncertainty all the way through. Fuel costs have been a big uncertainty. Capital costs have all

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1 the way through, interests and escalation.

2 So those uncertainties won't go away, and you heard some of our experts say something on the 3 same line, Dr. Borison and -- and our other expert 4 5 consultant, Brattle. Some uncertainties do diminish, 6 absolutely, and I think the best example is we've got 7 the impacts of shale gas are still evolving. There are disputes or -- whether the replacement rate for the 8 9 shale gas facilities, whether their -- their new shale gas is going to have enough of challenges to keep up 10 11 with the high replacement rate for shale gas wells, 12 what's the impact of that. What's the impact to LNG? 13 I see that the US just approved another 14 major LNG plant for export to Asia. What will the 15 impacts of that be? They're included in the -- in the 16 forecast, but there's all kinds of uncertainty, so the 17 natural gas price factor will still be uncertain, 18 although perhaps not as uncertain as now. 19 And then there'll be new uncertainties. 20 Think of the Black Swans and everything, that there 21 will be the unknown unknowns, that there's always 22 something new that comes up. So deferring does not 23 eliminate uncertainty. 24 The last comment I'll make is that in 25 uncertain times, one (1) of the things that's good from

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1 a strategic point of view is to keep your options open, 2 and the interconnection infrastructure provides a lot 3 of flexibility and a lot of options.

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Another issue is we have -- the team 4 5 from Hydro has talked, I think, passionately about the 6 work we have done with Keeyask and with Conawapa with our partners. And -- and I think there -- there -- we 7 -- if we're not careful, we may give a sense that we 8 9 are so wedded to these projects that we can't say no to 10 them anymore. We've spent a billion dollars on Keeyask. How can Manitoba Hydro stop when you've spent 11 12 a billion dollars already? That question must have 13 gone through some people's minds.

14 And I can only emphasize that you're --15 the people from Hydro, a lot of them, including myself, 16 we're talking about engineers and accountants, we're driven by -- and MBAs, we're driven by metrics, 17 18 customer reliability, security, our economics, the 19 financial, the social benefit cost, metrics on environment and socioeconomic. 20 21 We don't just do something because we 22 happened to have been doing it in the past and want to

23 carry on. Let me give you some examples, concrete
24 examples.

Limestone. We had started construction

on Limestone. We had built the cofferdam, and we are 1 proc -- ready to proceed with the general civil 2 contract. We are in the river already, and we -- and 3 conditions change, circumstances change. We stopped 4 Limestone for over ten (10) years, I recall, and then 5 6 when circumstances again became favourable, we built it and it was a very successful project. 7 8 Conawapa. We had it as a committed 9 project. We had approval from PUB. We had signed 10 contracts with Ontario. We were plunging ahead with 11 it. We had built the road already. We were planning -12 - putting some infrastructure in place. The -- the 13 circumstances changed, the major recession in Ontario. 14 The sale fell through. We stopped. 15 Pointe du Bois, more recently, we were -16 - and I was the project manager. We were proceeding 17 full-speed with the Pointe du Bois powerhouse, and as 18 we got new cost estimates and we looked at them and we 19 did the numbers, we said, No, it doesn't make sense 20 anymore, and middle -- midstream, we stopped working on 21 it, changed our -- all our approval requests 22 environmentally and shelved the project, although kept 23 on with what we had to do for dam safety, but the powerhouse we've stopped, and we -- and we say 2030, 24 25 maybe, maybe not. We'll see what it looks like then.

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3698 We're not just hydro builders. 1 We built 280 megawatts of gas in 2002, because the numbers told 2 us it made sense. The same with 258 megawatts of wind, 3 the numbers told us it made sense. Recently, we 4 5 extended the diversity exchange, which pushed back the 6 date for new generation. We've just increased DSM, or say we're planning to, two (2) to four (4) times, 7 because the numbers tell us to. 8 9 Now -- and this is just to reinforce. 10 When our capital costs went up in the last month and 11 two (2), we went back to our executive and our Board 12 and said, Here are the numbers, and the Company made a 13 decision on the metrics that it still makes sense. Ιt 14 wasn't just momentum. 15 Intergenerational equity. Oh, sorry, want me to go back? Oh, sorry, I thought you were 16 17 going to ask a question. 18 Intergeneration. We did have a 19 discussion on it last week, and so I won't spend as 20 much time on it. I -- I'd like to emphasize that in 21 the last panel, when this issue was raised, what --22 what -- I think as -- as a supplementary thing, is that 23 there will be slightly higher rate increases, you know, 24 or -- for the current generation with the, say, the 25 Preferred Plan compared to, say, an All Gas Plan.

3699 But that same generation is getting many 1 benefits, and I'm talking about the same things we've 2 talked about this morning, whether it's employment, the 3 economy, reliability, energy security, transfers to the 4 5 province, all of those things. It's this current 6 generation that will experience that slight increase in -- in the rates that will be getting these other 7 benefits. 8 9 And I know they're not quid pro quo, but 10 it's -- but from an intergenerational equity situation, I think it's quite relevant. 11 12 Secondly, in the short term, we 13 realistically, as our vice president, Mr. Rainkie, 14 indicated, we wouldn't change our rates in -- in the 15 short term for one (1) plan or the other. We have a --16 we have the rate strategy and rate approach we'll take, and realistically, in the short term in the next few 17 18 years, the rates will not differ between the plans. 19 In the medium term, there will be a 20 slightly higher rate compared to the All Gas Plan. In 21 the long term, we see them coming down much lower, and we think the overall balance is fair. 22 23 Second last, Manitobans are benefiting 24 today from the same kind of investments done in the 25 past, so this generation is getting the benefit of this

kind of approach. 1 2 And lastly, we fully expect, even with the higher cost, that the Manitobans and Manitoba 3 ratepayers are going to continue to ben -- enjoy the 4 5 low rates in the future. 6 Energy security and capacity 7 reliability, another one (1) of these societal benefits, and Dr. Shaffer didn't include a dollar value 8 9 in his analysis partly because some of our work was 10 premature, and -- and we have, as we testified earlier, 11 \$100 million of reliability benefit from a capacity 12 point of view for Manitoba customers, not export 13 customers. 14 I was asked that day about energy 15 security. Do we have a dollar value? And, as I 16 indicated, No, we don't, and that it's harder to 17 estimate that compared to capacity, and I didn't have a 18 -- a reliable way of coming up with a number. 19 But we've given it some serious consideration since that time, and our conclusion is 20 21 actually -- would be significantly more than the \$100 22 million for capacity reliability, and the reason is, 23 capa -- customer supply interruptions during energy 24 shortages would tend to be less likely to happen than 25 capacity ones, but when they happen, they will be

extended, not for hours -- weeks, days and months, 1 because if we're into maximum imports and running our 2 thermal to the max and we've got a -- and we have less 3 water, or there's something else, there's nothing left 4 5 for us to do, and we would have advance warning, so we 6 would have to look -- are there some customers who would be easier to shed load for a few weeks or months 7 or the year? 8 9 But that is very unpopular with our 10 industrial customers. Can you imagine us shutting down the pipeline so no oil and gas flows to Eastern Canada? 11 I mean, where do we turn? So we think the -- the --12 13 and I -- I'm sure my -- our MIPUG friends would agree that this would not be a desirable outcome. 14 So we actually view the energy security 15 16 as being significantly more valuable than the capacity 17 reliability, and in our view, the best way to deal with 18 these uncertainties and provide that is through this 19 expanded interconnection. 20 We're -- this is just a repeat of the 21 energy security graph that we talked about before. I 22 won't just talk -- it's just a reminder of what -- what 23 I'm referring to. I'm not going to go through this. 24 One (1) of the big issues in us looking at this -- one 25 (1) of the -- the wedge issues between the All -- the

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Gas Plans and the Hydro Plans is CO2, is climate 1 change, and -- in our -- in the social benefit cost 2 analysis, Mr. Shaff -- Dr. Shaffer just presented, he 3 put a dollar value on the CO2 emissions in Manitoba, 4 5 and it was appreciable. What he did not do because he 6 was doing it from a strictly Manitoba perspective, is 7 the Hydro Plan vastly reduces the emissions in the US. 8 From a global point of view, that, from 9 our point -- from Manitoba Hydro's perspective, from a societal perspective, is very important, and it's 10 11 something that should be given some weight. 12 We're not saying that Manitoba and Manitobans should sacrifice themselves for the benefit 13 of everybody else in North America, but here we have a 14 plan which passes the NPV test and has this additional 15 16 benefit of having a significant reduction in global 17 greenhouse gasses, which is -- acknowledges being one 18 (1) of the most, if the -- not -- not the most pressing 19 environmental issue in the world today. 20 21 (BRIEF PAUSE) 22 23 MR. ED WOJCZYNSKI: So just beginning 24 to wrap up here, when we're talking about the exports and the interconnection, the window of opportunity is 25

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the interconnection. We'll be able to get export 1 contracts down the road. It's the interconnection. 2 This is a piece of strategic infrastructure for 3 Manitoba. 4 5 We've talked about the benefits of the 6 interconnection and the transmission, which is 7 virtually permanent. Once you have a transmission line like that, you keep it, and the -- the towers get old, 8 9 or the insulators, you replace them. You keep that 10 thing, and it has all the benefits, which I'm not going 11 to repeat, because we've certainly talked about them. 12 What I will say is throughout North 13 America, we're seeing -- and Europe, and elsewhere, 14 everybody has recognized the importance of enhancing 15 interconnections for all the ben -- reasons we've been 16 talking about. This is a definite trend, particular with increased emphasis on renewables like wind and 17 18 solar. 19 Doing transmission now versus later, 20 populations are growing both here and in the States, 21 and it's getting harder and harder to get transmission 22 right-of-ways. And lastly, I -- I think it is not an 23 exaggeration to compare another major inter -- inter --24 interconnection to the US as something akin to what

25 we've done with the Floodway in Manitoba, pipelines,

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TransCanada Highway, the railways is a fundamental
 piece of infrastructure that's a major benefit to
 society.

So overall conclusions, just pulling it 4 5 all together. The 750 megawatt interconnection plans 6 have been demonstrated as the most economic of all the feasible plans. I have to tell you, Manitoba Hydro 7 wishes we had the 250 megawatt tie as an option. 8 It's a beautiful little option. It has less equity, less 9 cash investment required, but -- and it shows to be 10 economic if we could get that plan, but as you've heard 11 from us, it's not feasible. We wish it was feasible. 12 13 So the 750 plan is the most economic of 14 all the ones that are feasible. The Keeyask/Gas Plan 15 provides signif -- it passes the WACC NPV test 16 significantly. There are one (1) -- 1.1 billion corporate benefits if you included the embedded return. 17 18 If you look at it from a provincial point of view, over 19 \$2 billion. Dr. Shaffer just showed a \$.9 billion 20 social benefit compared to the All Gas, and we've got all the other benefits that we haven't included in 21 22 those values. 23 If you now look at the Keeyask/Conawapa 24 Plan, it also meets or exceeds the NPV test. Not quite

25 as well as the 750 Plan, but it has major benefits from

1 a corporate, and much larger benefits when you include 2 the whole provincial benefits, and it has a -- a social 3 benefit cost that's higher than the All Gas Plan as 4 well, and it has all those other benefits we've talked 5 about.

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6 So just to -- final one (1), I promise 7 you, for -- Dr. Shaffer did this at the end of his, and 8 on day one (1), I presented to you what I saw on behalf 9 of Manitoba Hydro were the questions. We've updated 10 those. So from Manitoba Hydro's point of view, the 11 four (4) questions and answers.

12 Should -- what should the long-term 13 electrical future in Manitoba be, should it be gas or hydro, recognizing DSM will be done in all of those? 14 15 And if wind is economic, we will do wind, but if you're 16 -- when you're choosing fundamentally between gas or 17 hydro, our view, quite strongly, it should be hydro, 18 and Keeyask would be the logical option at this point. 19 Should we do an interconnection? 20 Clearly, in our view, we've demonstrated the 750 21 megawatt interconnection would be valuable to pursue. 22 For that, you do need to advance Keeyask a few years 23 and proceed with at least the MP sale. 24 Should we go ahead with the WPS sale? 25 In our view, if we do proceed with Conawapa, then we

3706 should proceed with it. If we don't proceed with 1 Conawapa, well, a decision will be made at that time 2 whether the WPS 308 makes sense or not. 3 Should Conawapa be pursued? Our view is 4 5 that when you look at all the factors, Conawapa is 6 justified, but given that a decision is not required until 2018, that commitment will not have to be made 7 now, and we will monitor quite stringently the whole 8 9 situation, and the decision will be made in the future. 10 Thank you. 11 THE CHAIRPERSON: Before I ask the 12 panel if they have any questions, I'd like to stand 13 down for a minute, please? Okay. 14 15 (BRIEF PAUSE) 16 17 Okay. I believe that THE CHAIRPERSON: 18 we are ready to resume the proceedings, so I'll turn 19 the microphone over to Mr. Bel. 20 MR. RICHARD BEL: Mr. Wojczynski, what 21 would be the trigger for Conawapa? If it wasn't the 22 three-o-eight (308) sale, because its in Keeyask, or it 23 could be, what magnitude of sale would trigger, in your 24 mind, back-of-envelope? 25

3707 1 (BRIEF PAUSE) 2 3 MR. ED WOJCZYNSKI: That's obviously not an easy answer to question -- it's -- it's not an 4 5 easy question to answer. 6 If we -- we have the WPS sale signed, if 7 we assumed right now that we went Level 2 DSM, and we 8 had pipeline load something like we've talked about, 9 and we didn't have any dramatic changes in the load forecast, just the ones we've already talked about, and 10 11 we had a sale with Saskatchewan that was -- I'd just pick a number out of the air, this is not -- I'm not 12 13 giving you some confidential piece of information, a 300 megawatt sale, and with NSP if -- we've had three 14 15 (3) -- 500 or 375, or 325 megawatt sales with them for 16 a long time, and they are -- they're -- it's just 17 coming into the time frame where it's in their planning 18 horizon, where they're all going to start considering 19 it, so if we had a couple of hundred megawatts with 20 Saskatchewan, and I got -- and anything from NSP, I 21 would say that would be probably enough to trigger it. 22 But that's the back of the envelope 23 answering your question. In reality, it all depends on 24 what happened to gas prices? What happened to export 25 prices? How -- what will the rates be in those new

3708 contracts? One (1) thing you can be guaranteed, they 1 won't be the forecast. Your forecasts are never 100 2 percent right, so will they be -- how -- how are they -3 - with relative to the forecast? What happens to 4 5 Keeyask capital costs, because that'll tell us 6 Conawapa? 7 So it -- it's going to be all those factors mixed in together, and we'll do the economic 8 9 evaluations. The same -- the things you've been seeing here the last four (4) weeks, we'll redo all of those 10 and look at them, and that's what it'll tell us. 11 12 DR. HUGH GRANT: Could I just ask, on 13 your slide about energy security and capacity 14 reliability, could you remind me how you put a dollar 15 amount on the reliability argument? 16 MR. ED WOJCZYNSKI: Yes. On the 17 reliability evaluation, there's two (2) parts to it. 18 First, you have to have an estimate of how much 19 interruption will there be to customer supply? And we use the reliability evaluation techniques, engineering 20 21 ones that are well-tested and used everywhere, and --22 to determine -- using that, determine how many gigawatt 23 hours, or -- of energy are not supplied due to 24 interruption. 25 So that's step one (1). Step two (2) is

3709 you -- in this analysis, we didn't make an assumption 1 who was getting interrupted. We didn't assume that, 2 Well, we're only going to interrupt residential 3 customers, or only industrial customers, or only 4 5 commercial customers. We assumed it was pro rata 6 across the whole customer base. 7 And third, Manitoba Hydro had -- had contracted in 2002 for Professor Roy Billinton and 8 9 others from the University of Saskatchewan who are some of the -- were some of the world leaders in this 10 research, and I happened to do my Master with them on 11 12 this topic, but it -- but it -- they were recognized as 13 being that, and to develop numbers based on the Manitoba customer mix using national information on 14 15 what the different customer sectors would cost. And there has been cost information on 16 various kinds of industrial customers, residential 17 18 customers, commercial sector, large stores or whatever, 19 so they developed the number, and that was originally developed more for use in the Bipole III work, but it's 20 21 just as applicable to this work. 22 23 (BRIEF PAUSE) 24 25 THE CHAIRPERSON: Thank you, Mr.

3710 Wojczynski. I don't think we have any more questions 1 for the time being, so I believe that we're pretty 2 ready to turn the microphone over to Mr. Williams. 3 Ι quess we should probably stand down for a minute or two 4 5 (2). Mr. Williams, do you want to move up to the 6 front? 7 MR. BYRON WILLIAMS: I'd love to move up, but I believe My learned Friend, Ms. -- Mr. 8 9 Hombach, should take precedent. He's all -- he's both smarter and much taller. 10 11 MR. SVEN HOMBACH: I'm not sure about 12 that, Mr. Chairman, but the rest of the understanding 13 is correct. I -- I would be going first. And -- and 14 Mr. Chairman, I'm happy to continue until about 4:30, 15 unless anybody needs a break at this point, although I understand Mr. Bedford has to address an issue as well. 16 17 MR. DOUGLAS BEDFORD: I've been asked 18 to place on the record a -- a couple of documents which 19 relate to evidence given in preceding weeks, so if I may do that now, it'll take about five (5) seconds. 20 21 So I will enter Manitoba Hydro Exhibit 22 104-6, which bears the title: DSM analysis economic 23 summary tables Plan 6, DSM Level 2. 24 25 --- EXHIBIT NO. MH-104-6: DSM analysis economic

3711 1 summary tables, Plan 6-DSM 2 Level 2 3 MR. DOUGLAS BEDFORD: And the second 4 5 exhibit will be entitled MH Exhibit 104-7, and it's 6 another series of rather tedious looking tables entitled: Supply and demand tables, DSM analysis Plan 7 6-DSM Level 2. 8 9 10 --- EXHIBIT NO. MH-104-7: Supply and demand tables, 11 DSM analysis Plan 6-DSM 12 Level 2 13 14 MR. DOUGLAS BEDFORD: Mr. Wojczynski 15 assures me that these tables relate to evidence that he 16 gave a -- a short while ago, so I withdraw my impertinent reference to them as tedious, and before 17 18 Mr. Hombach begins his work, I'll be guided by you, Mr. 19 Gosselin, but a question was asked this morning that 20 Ms. Kidd-Hantscher was on the verge of answering, and 21 it was deferred till later. And the question, of 22 course, was a -- a request for an explanation of the 23 term 'adjusted gross revenue' in the context of the 24 Keeyask partnership. 25 So we don't have to answer that now, but

she's ready to answer it, if people wish. 1 2 THE CHAIRPERSON: Let's do it now, 3 please. 4 5 CONTINUED BY MR. DOUGLAS BEDFORD: 6 MR. DOUGLAS BEDFORD: Thank you. MS. JANE KIDD-HANTSCHER: 7 So this morning, when the question was asked, I was just 8 9 quickly trying to find the IR reference, because there was a very good explanation, so if you would happen to 10 have CAC (Manitoba Hydro) 2018, that is the one that I 11 12 was looking for, and I can just quickly walk through. 13 The definition of 'adjusted gross 14 revenue' is revenue received by the partnership less 15 carrying costs, so amortization and interest, on 16 preconstruction capital costs, and then also less the 17 future capital upgrade costs, as well as operating 18 costs. 19 So if you were -- I have -- here is the 20 IR in front of us. So what I just explained, if you 21 look on the Keeyask partnership revenue, this is for the year '22/'23, so it's the revenue. Then there's an 22 23 adjustment for the marketing risk fee, and this is under the power purchase agreement. So you end up with 24 25 a -- a net revenue of 284 million, and then these are

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1 the lessons that I just described, the amortization,
2 operating and admin, and the interest, and that leaves
3 you with a adjusted gross revenue amount.

And then if you follow through to the 4 5 bottom of the page, in terms of the -- it -- it takes 6 you through to where the distribution is calculated and 7 how it's calculated. So in this case, it's indicating that for that year, you would have adjusted gross 8 9 revenue of between zero and \$250 million, so ver -therefore, the calculation would be the two hundred and 10 forty-seven (247) times the point eight (.8) times two 11 12 point three seven (2.37), which would give you the 4.685 million for the preferred distribution. 13 14 So that's the complete calculation, 15 which includes the definition. 16 THE CHAIRPERSON: The partnership revenue in this case is based on what? Is it based on 17 18 export? Is it based on a combination of export and 19 domestic? 20 21 (BRIEF PAUSE) 22 23 MS. JANE KIDD-HANTSCHER: It's a 24 combination of on and off-peak energy. It --25 MR. ED WOJCZYNSKI: On and off-peak

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3714 export energy, yeah. 1 2 3 (BRIEF PAUSE) 4 5 THE CHAIRPERSON: Are we completed with 6 the initiative matters? Can we proceed to Mr. Williams now? Mr. Hombach...? 7 8 MR. SVEN HOMBACH: It would be -- it would be me examining first, Mr. Chairman, today. 9 10 THE CHAIRPERSON: Oh, I'm sorry. 11 12 CROSS-EXAMINATION BY MR. SVEN HOMBACH: 13 MR. SVEN HOMBACH: I -- I will 14 endeavour to be short, but I will not be that short. 15 And thank you, Mr. Chairman, and welcome to Manitoba 16 Hydro's panel. For those of you that I have not had 17 the opportunity to -- to meet, my name is Sven Hombach. 18 I'm serving as counsel to the Public Utilities Board in 19 this hearing, together with my co-counsel Bob Peters. 20 And there's an understanding by the 21 panel that we will be sitting late tonight to make up 22 some of the lost time. I'm currently under 23 instructions to keep going till six o'clock. That 24 said, I will not do that without calling for a break. 25 I think I'd be a -- a very unpopular person. And Mr.

Wojczynski, you had the opportunity to give the last
 presentation. I have to actually go after you and keep
 people here late, so.

I appreciate the position that 4 Yeah. 5 I'm in. I would like to establish a few things, and 6 that is something that we've repeated with the Manitoba Hydro panels that have testified before. That is, even 7 though I might direct my questions to a specific person 8 9 on the panel, I'm trying to elicit Manitoba Hydro's 10 best evidence, so by all means, if you believe that 11 somebody else is more appropriate to answer that 12 question, or if you need to check with people in the 13 back row, go ahead.

14 I also appreciate that the PUB panel's role is to assess Manitoba Hydro's Preferred 15 16 Development Plan and Manitoba Hydro's First Nations 17 partners and Keeyask are present here today. To the 18 extent Manitoba Hydro wishes to defer to some of those 19 witnesses that were sworn this morning, I will leave 20 that up to Manitoba Hydro, but otherwise my questions 21 will be directed to Hydro the corporation. 22 I also will not be trying to adduce any

23 CSIs, so if there are any questions the answer to which 24 would entail the release of commercially sensitive 25 information, I fully expect Mr. Bedford to have his

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3716 finger on the buzzer, and I don't expect you to answer 1 it on the public record. I -- I take it that's all 2 understood? 3 Thank you. Now, before I get started, I 4 5 will be making repeated reference today to a Board 6 counsel's book of documents that's been provided to Manitoba Hydro, and has been made Exhibit PUB-58-5. 7 That's Board counsel book of documents Volume V. But -8 9 - it's Exhibit PUB-58-5, Board counsel document Volume 10 V. 11 12 --- EXHIBIT NO. PUB-58-5: Board counsel book of 13 documents Volume V 14 CONTINUED BY MR. SVEN HOMBACH: 15 16 MR. SVEN HOMBACH: But before we 17 actually go there, Mr. Wojczynski, I'm wondering if I 18 could refer you back to page 17 of the presentation 19 that you just gave, and Ms. Villegas, if it's possible 20 to put that up on the screen? I'm not sure what the 21 number is on the PDF document, but it's the third last 22 slide in Mr. Wojczynski's presentation. 23 Looking at the slide, Mr. Wojczynski, I 24 remain somewhat confused -- that's not the right slide. 25 It might be one (1) -- one (1) further down. That's

the one. 1 2 Sitting here today on March 25th, 2014, are you in a position to tell the panel whether 3 currently Manitoba Hydro's Preferred Development Plan 4 5 involves the construction of Conawapa, or involves the 6 construction of gas following Keeyask? 7 MR. ED WOJCZYNSKI: I've attempted to explain this before, and I'll -- I will try again, and 8 9 hopefully it -- it's clear. 10 Our Preferred Development Plan is a 750 11 megawatt interconnection Keeyask 2019, and Conawapa 12 early, and right now, 2026, but potentially later than 13 that. That is our Preferred Plan, but as part of our 14 Preferred Plan, we have inherent flexibility in it, 15 that if that is not ultimately, with all the 16 monitoring, found to continue to be justified, that we 17 would drop Conawapa and proceed with something else. 18 Presumably, it would be gas, and potentially at -- at 19 some later date. 20 MR. SVEN HOMBACH: So it follows, then, 21 from your answer, Mr. Wojczynski, does it not, that 22 Manitoba Hydro intends to keep spending money on an 23 annual basis to protect the 2026 in-service date for 24 Conawapa? 25 MR. ED WOJCZYNSKI: Yes. In the

3718 forthcoming year, or the -- let me talk about '14/'15, 1 which we're already well into. Whether we go with the 2 All Gas Plan or whether we go with the Keeyask Plan, 3 our -- our contracts, our arrangements with staff, our 4 arrangements with consultants, our arrangements with 5 6 First Nations is we've already got a process in place for Conawapa, it -- and that we would be carrying on 7 with it for this year, and we're talking about a cost 8 9 of probably in the order, on a -- a forward-going basis, something like \$50 million. 10 11 If something dramatic happened and we 12 decided to -- to stop protecting Conawapa, then some of 13 that would still be spent, but not all of it. But 14 right now, our plan is to carry on for this year. 15 Next year, when we do our annual power 16 resource plan, we will reevaluate everything, and we will make a decision based on what we see then as to 17 18 whether we continue protecting Conawapa or whether we 19 push it back and slow down the protection for it. 20 So -- so one (1) possibility is if 21 everything every year when we look at things, they're 22 very positive, then we would carry on and protect up to 23 the January 18th time, and per -- and then make a 24 decision then, or we would slow it down, one (1) or the 25 other.

3719 1 MR. SVEN HOMBACH: Okay. And perhaps I could ask Ms. Villegas to put up Manitoba Hydro Exhibit 2 98 for a moment? 3 4 5 (BRIEF PAUSE) 6 7 MR. SVEN HOMBACH: And go to page 9 of that document, page 9 in the PDF. Sorry, scroll down 8 9 one (1) page, please. 10 11 (BRIEF PAUSE) 12 13 MR. SVEN HOMBACH: And go to the next 14 page, the one that shows the expenses for Conawapa. 15 16 (BRIEF PAUSE) 17 18 MR. SVEN HOMBACH: That shows the --19 the current expenditures for Conawapa, but there's also in the -- in the document, a list that shows the annual 20 21 projected expenditures to protect the in-service date, and I may have that page reference wrong, but I'll 22 23 continue going on, and perhaps we'll find it. 24 Now, getting back to your answer, that 25 you're going to reevaluate after one (1) year, and that

you're currently likely looking at a 2026 in-service 1 date, at what point do you expect a definitive yes or 2 no decision on Conawapa? 3 MS. DONNA WILSON: Assuming that we 4 5 continue to decide protecting 2026, and I did -- I 6 don't believe I said that's likely. I said that's the -- that's the early date. It's the earliest date we 7 can protect, and it's the date we are currently 8 9 protecting. I -- I don't believe I've ever 10 characterized it as the most likely date we would ultimately continue to protect for. That -- that will 11 12 depend on the circumstances, so. 13 But aside from that qualifier, these would be the expenditures we're looking at right now, 14 15 yes. 16 17 (BRIEF PAUSE) 18 19 MR. ED WOJCZYNSKI: I'm sorry, I got 20 distracted by the first -- my -- my qualifier and forgot to answer your question. Should I -- should I 21 22 answer your question now? 23 MR. SVEN HOMBACH: Yes, please. 24 MR. ED WOJCZYNSKI: My apologies for 25 that. I see -- taken that qualifier and assuming it is

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3721 2026, we continue to protect, for the absolute decision 1 has to be made December -- well, January 2018, because 2 that's when we have to commit it and proceed. 3 It would be very unlikely that we would 4 5 be at the stage now in -- in -- say in January '18, in 6 that -- in that we -- that the lead up to that would not have given us an indication that was not economic 7 to do, and that then we would be in '18 and have spent 8 9 all that money. If -- if there were indications -- if 10 there were indications earlier that the export negotiations aren't going well, or Keeyask capital 11 12 costs went up significantly or whatever, then we would 13 have slowed down the work and would not have spent all 14 that money by then, so. 15 But -- but the hard and fast decision would have to be January 2018. 16 17 MR. SVEN HOMBACH: And correct me if 18 I'm wrong, but the approximate amount spent on Conawapa 19 to date is in the vicinity of 400 million? 20 MR. ED WOJCZYNSKI: Yes, and I believe 21 that includes interest too. 22 And -- and MR. SVEN HOMBACH: Okay. 23 looking at the slide in front of you, which is page 9 24 of the capital expenditure forecast, CEF13, that's 25 Manitoba Hydro Exhibit 98, you said a definitive

3722 decision would likely have to be made by 2018? 1 2 MR. ED WOJCZYNSKI: January. MR. SVEN HOMBACH: Okay. So the annual 3 expenditures projected for Conawapa in the CEF, which 4 5 are found in the fifth line from the top, would that include the 2018 expenditure of \$240.6 million before a 6 definitive -- def -- decision is made? 7 8 MR. ED WOJCZYNSKI: Yeah. That would 9 be -- if -- if I'm not mistaken, this is all in fiscal year ending, so that would be -- '18 would be 2017/'18, 10 11 and so it -- it would include those expenditures. 12 MR. SVEN HOMBACH: So very grossly 13 rounded, then, you're looking at spending an additional 14 600 million, approximately, before a decision has 15 crystalized? 16 MR. ED WOJCZYNSKI: Well, first of all, there's interest in there, and you said, "600 million." 17 18 I'm just -- I need new glasses. Do you have the... 19 No, that's not the right one. Six hundred million (600,000,000), if you look at '14, that's '13/'14, so 20 21 that -- that money will already have been spent, because as a matter of fact, as of one (1) week from 22 23 now, that will have already been spent. So then you're 24 looking at fift -- '14/'15, where there's \$70 million, 25 and regardless of our plan, we'll -- we'll -- by the

3723 time we make any decisions arising out of the NFAT 1 process, we'll already be into that. So part of '15 2 money would already have been spent. So I'm -- I'm not 3 -- I'm not sure how you get 600 million. 4 5 If you look at '16, that's 125 million, 6 '17, call it another 100 million. That's two hundred and twenty-five (225), and then you've got all of '18, 7 that's 460 million there. So you're -- you're -- those 8 9 are quite substantial sums, and if that's the point in time we're talking about, if we had indications that 10 Conawapa was not going to be justified, we would have -11 12 - we would have slowed that down. MR. SVEN HOMBACH: So if you don't slow 13 14 it down, you're looking a sunk cost, then, of 15 approximately 860 million at that point? 16 MR. ED WOJCZYNSKI: Subject to check if 17 we do spend all of that money, and including interest 18 during construction. 19 MR. SVEN HOMBACH: And if --20 MR. ED WOJCZYNSKI: And -- and including the dollars that are sunk already. 21 22 MR. SVEN HOMBACH: And if the 23 development does get slowed down, what percentage of 24 this amount would you be expecting to shave off? 25 Well, it depends on MR. ED WOJCZYNSKI:

3724 when we slow it down. If after next year, in summer of 1 '15, spring/summer of '15, if we had indic -- negative 2 indications then, we would stop at -- I'm having to 3 just ballpark here, but I'm looking at this, we would 4 5 stop after -- there's the -- you know, there's \$70 6 million for '14/'15. We would have spent that and a --7 a portion of what's in '16. So we could -- we could call that a \$100 million for now. It would be a -- an 8 9 additional \$100 million. We could stop there, or we would be carrying on. So at any point after that, 10 11 realistically. 12 MR. SVEN HOMBACH: So hypothetically 13 speaking, if you were going to stuff money on protecting the in-service date at this point, how much 14 15 would that push back the eventual in-service date if 16 you resumed development? 17 Is it a linear relationship where if you 18 don't spend money one (1) year, that needs to be tacked 19 on and pushes back the date the one (1) year? 20 MR. ED WOJCZYNSKI: Almost, and let me 21 explain. We are in the middle of environmental 22 studies, and Ms. Pachal can speak to that better than I 23 can. 24 We are in a process, we are engaged with 25 the First Nations, some of them here, and if you just

tomorrow, or let's say July, said, Don't spend one (1) 1 more dollar, and you cancelled all the process 2 agreements, cancelled all the contracts, laid off all 3 the staff we have working on it, then -- and then you, 4 5 one (1) year later said, Oh, let's start again, you 6 would have lost more than a year, because you'll have 7 to restart processes and whatnot. 8 So, it -- it's -- it's more than linear. Perhaps I can expand that. If you -- if you delayed it 9 for five (5) years, I would suggest pretty well all --10 11 most of the environmental studies would be -- have to 12 be repeated -- not all of them, and you'd have to redo 13 all of the -- the processes with the First Nations and other communities, and you'd have to redo some of the 14 15 engineering as well. 16 So it also depends how -- how many 17 years, but it -- it's not just a linear thing, no. 18 MR. SVEN HOMBACH: Does the 19 Keeyask/Gas scenario that you included in your most recent economic evaluation include these costs to 20 21 protect Conawapa at all? Are those factored out? 22 MR. ED WOJCZYNSKI: When we did the 23 plans -- the fifteen (15) plans -- each one (1) of 24 those, we assumed after June -- let's say July of this 25 summer -- that we would not spend more money or

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3726 undertake on -- on the other plans. 1 2 Now that was sort of like a pure plan, not accounting for protecting other options. When we 3 presented to this panel and this process what we called 4 5 "the -- the optionality analysis" and that's in the --6 it's provided also in our in -- IR process, that was a more realistic analysis of what would happen where we 7 would have for -- in the All Gas Plan, realistically, 8 you're not making a commitment to only build gas 9 10 forever and nothing else. 11 So in that plan, you would probably protect one (1) or other of, or both of, Keeyask and 12 Conawapa and there would be additional dollars in the 13 All Gas Plan. We don't have them in the Plan 1. 14 We did in the optionality analysis. 15 16 Similarly, in the Keeyask Gas Plan in the optionality analysis, we continued protecting 17 18 Conawapa for a few years until we chose to go Conawapa 19 or Gas. So that optionality analysis is a realistic view of how the world would evolve. 20 21 The fifteen (15) plans were done more 22 pure, so you could get an understanding of what was 23 happening. 24 MR. SVEN HOMBACH: Ms. Villegas, could 25 you put up Manitoba Hydro Exhibit 90, please?

1 2 (BRIEF PAUSE) 3 MR. SVEN HOMBACH: And scroll to the 4 5 bottom of the page. Mr. Wojczynski, in -- in Manitoba 6 Hydro Exhibit 90, Manitoba Hydro indicated that it would be filing finan -- new financial analysis on 7 March 24th. Now, correct me if I'm wrong, but that has 8 9 not been filed yet, has it? 10 MR. ED WOJCZYNSKI: No, it hasn't, and 11 I have to be honest about it. I -- I don't know what 12 the current status is on the financial plans. 13 MR. SVEN HOMBACH: Would you please be 14 \_\_\_ 15 MR. ED WOJCZYNSKI: I was focussed 16 yesterday on getting this presentation ready. 17 MR. SVEN HOMBACH: -- in a position to 18 provide an update to the panel by tomorrow morning as 19 to the anticipated filing date? 20 MR. ED WOJCZYNSKI: We will get an 21 update on that for tomorrow morning, yes. 22 MR. SVEN HOMBACH: Thank you. 23 Yes, the MR. ED WOJCZYNSKI: 24 undertaking is to provide an update on Wednesday -- no, 25 Tuesday morning of the plans -- Wednesday morning --

3728 Wednesday morning, for when the financial analyses will 1 be available. 2 3 --- UNDERTAKING NO. 57: Manitoba Hydro to indicate 4 5 on Wednesday morning when 6 the financial analyses will be available 7 8 9 MR. SVEN HOMBACH: My next line of 10 questions is likely directed at Mr. Brandson. There was some discussion about the principles of sustainable 11 development and the history, but I -- I wanted to 12 13 actually take the panel to the actual principles of 14 sustainable development and -- and see if we can get a 15 little more clarity. 16 And, Ms. Villegas, if I could ask you to 17 put up PUB Exhibit 58-5 and flip to page 375. 18 Now, Mr. Brandson, these are the actual 19 principles of development set out in the Sustainable 20 Development Act that you were talking about earlier, correct? 21 22 MR. NORMAN BRANDSON: Yes, that's 23 correct. 24 MR. SVEN HOMBACH: And you testified 25 about the integration of environmental decisions as

3729 well as economic decisions under sustainable 1 development. And I believe your evidence was that the 2 intention of the principles was to -- to recognize that 3 you cannot fully desegregate the environmental 4 5 decisions from the economic decisions. 6 Am I paraphrasing it correctly? MR. NORMAN BRANDSON: 7 T think that's a correct characterization. They're intimately 8 9 connected, yes. 10 MR. SVEN HOMBACH: So when this panel's being asked to assess compliance of the plan or whether 11 12 or not the plan is aligned with the principles of 13 sustainable development it has to consider it both from 14 the economic and the environmental perspective? 15 MR. NORMAN BRANDSON: Yes. 16 MR. SVEN HOMBACH: And turning our attentions for a moment to section 2 of the principles 17 18 that's labelled, "Stewardship," the way I am reading 19 those, those are really enshrining principles of 20 intergenerational equity that the Board usually considers. 21 22 Is that a fair characterization? 23 MR. NORMAN BRANDSON: Yes, it is. 24 MR. SVEN HOMBACH: And section 3 that's 25 labelled, "Shared Responsibility and Understanding,"

1 that discusses in the fourth line under section 3.1 a
2 spirit of partnership and open cooperation. And would
3 it be fair to paraphrase this as saying, if possible,
4 one should avoid a situation where there is winners and
5 losers?

6 MR. NORMAN BRANDSON: I think this section contains several concepts. I know when -- when 7 this was discussed, when the white paper was current 8 leading up to this legislation, and -- and then some of 9 10 the individual sector strategies were being developed, one (1) of the concepts of this was to bring home the 11 fact that -- that all of us are -- are responsible. 12 13 All of us have a role to play in terms of sustainable 14 development in terms of the things we do on a day-to-15 day basis.

16 There was an element of, I guess, kind of citizen responsibility here in this particular 17 18 section, and -- and as I recall, quite a strong element 19 of that at the time. And -- and can you recharacterize 20 that again? You had a particular phrase, and...? 21 MR. SVEN HOMBACH: I had characteri --22 or I had tried to paraphrase it as saying it -- it aims 23 to avoid situations in development where you've got 24 distinct winners and you've got distinct losers. 25

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3731 1 (BRIEF PAUSE) 2 3 MR. NORMAN BRANDSON: I think in general terms that's not unfair. Although, having said 4 5 that, there's -- that's not a -- what I'd call a 6 universally applicable deci -- outcome. In other 7 words, you may strive for that, but there may be situations in which you can't achieve it. 8 9 MR. SVEN HOMBACH: And you indicated 10 before that compliance with them isn't mandatory. 11 These are ambitious principles, but they're not 12 necessarily -- compliance isn't necessarily mandatory? 13 MR. NORMAN BRANDSON: That's correct. 14 And -- and where elements of these principles can be 15 better defined and -- and can be made mandatory, I 16 think government acts to do just that. 17 MR. SVEN HOMBACH: Okay. Now turning 18 to section 4 just underneath, the section that's 19 labelled "Prevention," is it fair to characterize this 20 as trying to enshrine what environmental lawyers refer to as the precautionary principle? If there is a risk, 21 22 you should be avoiding it and you should be mindful of 23 risks that you don't necessarily fully understand? 24 MR. ED WOJCZYNSKI: If I could just 25 comment for a second. I think prevention is much more

3732 than the precautionary principle. Precautionary 1 principle is when you've got uncertainty as to what an 2 environmental impact will be, or -- or some other 3 impact. And just the fact that it's uncertain means 4 5 you shouldn't do something to address it. I think 6 prevention is much broader because it includes where 7 you know things will happen and you should try and prevent them. 8 9 MR. SVEN HOMBACH: Thank you for that 10 clarification. 11 Mr. Brandson, do you have anything to 12 add? 13 MR. NORMAN BRANDSON: Only to say that 14 when you speak of the precautionary principle, I've, 15 over the course of the years, heard probably a dozen or 16 more formulations of the precautionary principle, so it's -- there -- there are different formulations of 17 18 it. 19 As I recall, the original precautionary 20 principle was -- was stated with respect to climate 21 change, and it had words to the effect that we 22 shouldn't simply, because absolute scientific certainty 23 does not exist, fail to take actions in situations where the consequences may be extremely significant, 24 25 words to that effect.

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1	MR. SVEN HOMBACH: Okay. And turning
2	to Sections 5 and 6 of the principles. Section 5 is
3	labelled, "Conservation and enhancement." And that
4	really deals with the protection of the environment.
5	Is that a fair paraphrase?
6	MR. NORMAN BRANDSON: Protection of the
7	environment and and, I guess, wise resource use.
8	And the two (2) are related but not necessarily
9	identical.
10	MR. SVEN HOMBACH: And section 6, that
11	deals with fixing what is already broken, or in other
12	ways remediating environmental problems that have
13	already occurred?
14	MR. NORMAN BRANDSON: Yes.
15	MR. SVEN HOMBACH: And Section 7, it's
16	labelled, "Global responsibility," and refers to the
17	principle of thinking globally, acting locally. Now,
18	in your understanding, for example, with respect to
19	greenhouse gases, would that mean you do not just look
20	at emissions in Manitoba, you look at them in North
21	America, or at least within the entire MISO area,
22	including Manitoba?
23	MR. NORMAN BRANDSON: I I think it's
24	broad enough that it could encompass that, yes.
25	MR. SVEN HOMBACH: So turning then to

3734 the actual socioeconomic analysis that Manitoba Hydro 1 has performed, and I'm -- I'm not sure who the most 2 appropriate person is to address these questions. 3 4 Manitoba Hydro has done two (2) things, has it not? 5 It's conducted an economic impact analysis and it's 6 conducted a multiple account benefit cost analysis? 7 MR. ED WOJCZYNSKI: Yes. 8 MR. SVEN HOMBACH: And --9 MS. SHAWNA PACHAL: Well, and it's also 10 include -- done an extensive environmental assessment 11 which includes a socioeconomic assessment in that 12 context, as well. 13 MR. SVEN HOMBACH: Okay, thank you for 14 that, Ms. Pachal. 15 And Manitoba Hydro actually indicated in 16 response to an Information Request submitted by CAC, it was CAC/MH I-156a, that economic impact analysis and 17 18 multiple account benefit cost analysis are not 19 accomplishing the same thing. 20 And if you had to give me a Coles Notes 21 version of what the distinction is would you be able to 22 do that? 23 DR. MARVIN SHAFFER: I -- I could try. 24 MR. SVEN HOMBACH: Thank you. 25 Economic impact DR. MARVIN SHAFFER:

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1 analysis is trying to estimate the total number of jobs 2 and economic activity and, in some cases, taxes that 3 are associated with the expenditures, typically 4 associated with the expenditures on a particular 5 project. So it's trying to trace, if you like, the 6 demand for labour or the demand for other goods and 7 services throughout the economy.

8 That's important information. It tells 9 you something about the scale of activity and its ramifications in an economy, but it doesn't necessarily 10 tell you what the net benefits of that activity are. 11 12 In the multiple account benefit cost analysis, or any 13 benefit cost analysis for that matter, the focus is more on the net benefits, not just how many jobs might 14 15 be generated, but rather what is nature of the benefits 16 that those jobs provide measured by the difference between what the workers receive and what they'd have 17 18 to receive to be no worse off. In other words, they're 19 giving up their time. They might be giving up other 20 jobs. They might be giving up other activities. And so it is -- it is different. 21 22 One (1) is dealing with net benefits, 23 and -- and the other, if you like, is dealing with 24 gross effects.

MR. SVEN HOMBACH: Okay. And -- and,

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3736 Dr. Shaffer, I believe you testified this morning that 1 you were the primary author of Chapter 13 in the NFAT 2 filing? 3 DR. MARVIN SHAFFER: That's correct. 4 5 MR. SVEN HOMBACH: Were you the primary 6 author of the Economic Impact Assessment in Appendix 2.3? 7 8 DR. MARVIN SHAFFER: No. I -- I didn't 9 have any involvement in that. 10 11 (BRIEF PAUSE) 12 13 MR. SVEN HOMBACH: I'd like to take the 14 parties to that Economic Impact Assessment. And that's 15 found at Tab 3, page 47 of the book of documents. 16 17 (BRIEF PAUSE) 18 MR. SVEN HOMBACH: On that page we see 19 20 an Economic Impact Assessment for the Preferred 21 Development Plan. And perhaps Manitoba Hydro can 22 clarify, this particular filing, does that still assume 23 a transmission line investment by Wisconsin Public 24 Service? 25 MR. IAN PAGE: It -- it makes no

3737 assumption whatsoever on the -- in the investment, 1 because it -- it doesn't include -- it's number of 2 jobs. 3 4 MR. SVEN HOMBACH: Okay. So --5 MR. IAN PAGE: Or -- or tax revenue. 6 MR. SVEN HOMBACH: -- so this is simply based on assuming that Keeyask will be constructed, 7 Conawapa will be constructed, and the ancillary 8 9 transmission infrastructure will be constructed? 10 MR. IAN PAGE: That's correct. 11 MR. SVEN HOMBACH: But it doesn't make 12 any assumptions as to how it's being paid for? 13 MR. IAN PAGE: It doesn't need to, no. 14 MR. SVEN HOMBACH: And this particular 15 model is the Manitoba Bureau of Statistics model that 16 Hydro has chosen? 17 MR. IAN PAGE: Yes. 18 MR. SVEN HOMBACH: Can you indicate to 19 the panel on why Manitoba Hydro chose this model as 20 opposed to the Stats Can model? 21 MR. IAN PAGE: As I've mentioned 22 earlier today, the -- the Stats Canada model, our --23 our view is that it doesn't have as good a knowledge of 24 some of the specific local effects that -- that the 25 Manitoba Bureau of Statistics has familiar with --

3738 familiarity with. And -- and I made mention this 1 morning things like cement no longer being manufactured 2 in Manitoba. 3 4 MR. SVEN HOMBACH: So when you're 5 discussing local effects, and -- and pardon me for 6 interrupting you, you're really talking about what is 7 called leakages? 8 MR. IAN PAGE: Yes, the -- the --9 Manitoba has -- does have a fairly leaky economy. We have, relative to a lot of other provinces, a lower --10 a lower level of manufacturing base here. So that --11 12 that's something that's very specific to Manitoba that 13 we have to recognize. And that's -- and that's 14 inherent in the Manitoba Bureau of Statistics model. MR. SVEN HOMBACH: 15 Okay. And -- and what we're looking at on the page in front of us, or --16 17 the top table, those are the impacts assumed in 18 Manitoba. The middle one is the impact assumed in the 19 rest of Canada. 20 And the bottom one (1) combines those 21 two (2)? 22 MR. IAN PAGE: That's correct. 23 MR. SVEN HOMBACH: And if I'm reading the table correctly, it appears that the rest of 24 25 Canada, meaning the non-Manitoba economic benefits

3739 would be about twice as high as the Manitoba benefits 1 using this model? 2 3 MR. IAN PAGE: Yes, and that's -- and that's, as I mentioned, is a function of the high --4 high amount of leakage in the Manitoba economy. 5 6 MR. SVEN HOMBACH: Right. 7 MR. IAN PAGE: Where a lot of the products that used to be manufactured here no longer 8 are. So they have to outsourced -- or sourced from 9 outside of Manitoba. 10 11 MR. SVEN HOMBACH: So in Manitoba 12 Hydro's view, this assumption is reasonably accurate? 13 MR. IAN PAGE: You know, we'd like it 14 to be -- like to have less leakage, but that's --15 that's our assumption as to, yeah, an accurate 16 depiction of the -- the Manitoba economy and its capabilities. 17 18 19 (BRIEF PAUSE) 20 21 MR. SVEN HOMBACH: I take it Manitoba 22 Hydro has had a chance to review the TyPlan report 23 dealing with socioeconomic issues? 24 MR. IAN PAGE: Yes, we have. 25 MR. SVEN HOMBACH: And if I can refer

3740 you to page 50 of Board counsel's book of documents. 1 2 3 (BRIEF PAUSE) 4 5 MR. SVEN HOMBACH: There's a section 6 that's highlighted about halfway down the page that discusses that: 7 8 "Usually one makes the assumption 9 that the direct benefits are incurred 10 in the jurisdiction where the project 11 is actually located." 12 And it's my understanding that that's 13 the underpinning of the Stats Can Model, is it not? 14 15 (BRIEF PAUSE) 16 17 MR. IAN PAGE: Yes, and I -- I believe 18 that the two (2) models have a similar mechanism. It's just a matter of what the assumptions and multipliers 19 are inherent in each one that's different. 20 21 MR. SVEN HOMBACH: Now, for appendix 2.3, Manitoba Hydro appears to have done three (3) 22 23 analyses. It's done one (1) for the Preferred 24 Development Plan. It's found on page 47 of Board 25 counsel book of documents. One (1) for Keeyask found

3741 on page 48, and then one (1) for Conawapa on page 49. 1 2 What I do not see here is any analysis of a gas scenario, either on its own under the All Gas 3 Plan or under a Keeyask Gas Plan. 4 5 6 (BRIEF PAUSE) 7 8 MR. IAN PAGE: We'll just have to look 9 for it. We did -- there was a -- it was filed on an 10 interrogatory, the impacts for gas. 11 MR. SVEN HOMBACH: Okay, perhaps we can 12 continue on while you're looking for it and, by all 13 means, if you can find the location, I would appreciate 14 it. 15 Now, the Manitoba Bureau of Statistics model appears to lump in indirect and induced jobs. Is 16 that just a function of the model; that it doesn't draw 17 18 an actual distinction between those two (2), Mr. Page? 19 MR. IAN PAGE: I believe that's correct; that it doesn't make that distinction. 20 21 MR. SVEN HOMBACH: And -- and just to -22 - to recap for the panel, direct jobs would be those 23 people directly employed on the project, correct? 24 MR. IAN PAGE: Yes, that's correct. 25 Indirect jobs would MR. SVEN HOMBACH:

be subcontractors or suppliers to the project? 1 MR. IAN PAGE: Ones that -- I don't 2 want to just say subcontractors because we could have 3 4 subcontractors on site. It would be a -- a company, say, that manufactures one (1) of the components is 5 6 then shipped up to site and then used on site. 7 So it's -- so it's -- they're not -they're not directly employed on site, but -- so you 8 9 can't just make the distinction: contractors or subcontractors but... 10 11 MR. SVEN HOMBACH: And induced jobs 12 would be things like people running a caf in the 13 community or just people making more money as a result 14 of those working on the project having more disposable 15 income? 16 MR. IAN PAGE: Yeah, yes, it's recogni 17 -- yes, it's recognizing that there's that additional 18 level of income that's then -- then available to flow 19 through the economy. So it could be -- yeah, it could 20 be spent in the local restaurant or it could be spent 21 in any number of other ways. 22 As far as the question on the -- on the 23 gas that was filed, MMF question MH-2-040a. 24 MR. SVEN HOMBACH: Sorry, can you 25 indicate that number again?

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MR. IAN PAGE: MMF/MH 2-040a, and it 1 had single cycle and a combined cycle gas turbine to 2 3 it. 4 MR. SVEN HOMBACH: Thank you. Now, Mr. 5 Page, I'd like to turn your attention back to page 47 of Board counsel's book of documents, the economic 6 7 impact analysis for the Preferred Development Plan. 8 And let's scroll down to the bottom of the page. 9 The GDP assumptions under this model 10 that we see for Keeyask/Conawapa, the north-south upgrade and the 750 megawatt interconnection, it 11 12 indicates on the table that those numbers are in millions. 13 14 Is that actually correct? 15 MR. IAN PAGE: No, it should be 16 thousands. I Caught it in the presentation, but I 17 didn't -- didn't catch it in the original filing. 18 MR. SVEN HOMBACH: And the same then 19 holds true for the other two (2) pages where it also states those are in millions? 20 21 MR. IAN PAGE: That's -- that's 22 correct. We're not that big. 23 24 (BRIEF PAUSE) 25

3744 MR. SVEN HOMBACH: And these numbers 1 that we're looking at, Mr. Page, are these net numbers 2 or are these gross numbers? 3 4 MR. IAN PAGE: These -- these are gross 5 numbers. 6 MR. SVEN HOMBACH: So let's turn back to the issue of leakages that you already mentioned. 7 Leakages can occur both in terms of jobs or in terms of 8 9 supplies that are actually used in the development of 10 those projects, can they not? 11 MR. IAN PAGE: That's correct, and 12 that's one of the main thrusts of Ms. Pachal's work on 13 -- on trading and so forth is to try to minimize that 14 amount of leakage on the labour side. 15 MR. SVEN HOMBACH: And I turn your 16 attention to page 62 of Board counsel's book of documents for a moment. 17 18 That just indicates that in Manitoba 19 Hydro's NFAT filing in Chapter 13, Table 13.5 sets out gross wages for workers on the project and -- and Table 20 13.6 shows the estimated net benefit to Manitoba 21 22 workers netting out the wages earned by non Manitobans? 23 DR. MARVIN SHAFFER: The net benefits 24 goes beyond netting out the wages to non Manitobans. 25 The net benefits is a different concept than just

looking at the gross total wages. It's looking at the
 wages, less the opportunity cost of the workers. In
 other words, what the workers might otherwise have been
 earning in other employment, or the value of what they
 might otherwise have been doing.

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So in -- in Chapter 13, if we start with 6 7 the gross wages -- well, the -- the employment and the gross wages, and we have to estimate what proportion of 8 9 the wages would accrue to Manitobans, firstly, and then 10 for the Manitobans we estimate what proportion go to northern Aboriginal Manitobans versus other Manitobans, 11 12 and we recognize that they're significantly greater net 13 benefits for the northern Aboriginal Manitobans than other Manitobans because of the -- the markedly 14 15 different labour market and other opportunities that 16 they have. 17 MR. SVEN HOMBACH: So when you say

18 'markedly different benefits,' Dr. Shaffer, are you 19 saying that there's higher unemployment within the 20 northern context so the net benefits on a percentage 21 basis would be bigger --22 DR. MARVIN SHAFFER: That's correct. 23 MR. SVEN HOMBACH: -- compared to the 24 south? 25 DR. MARVIN SHAFFER: That's correct.

Much higher. 1 2 MR. SVEN HOMBACH: And, Dr. Shaffer, on that topic I'd like to take you to page 178 of Board 3 counsel's book of documents. That shows Table 13.5, 4 5 the gross wages. Now, there's a distinction drawn on 6 this table between northern Manitoba and southern Manitoba. 7 8 Was that -- was that your doing, Dr. 9 Shaffer? 10 DR. MARVIN SHAFFER: That -- no, the --11 that was the data that was provided to me by Manitoba 12 Hydro based on the different projects that the 13 different plans contained and their best estimate of 14 where the labour was likely to be sourced. MR. SVEN HOMBACH: 15 Okay. So that distinction between northern Manitoba and southern 16 17 Manitoba, what's actually included in northern 18 Manitoba? Does it include northern Aboriginals as well 19 as northern residents, or also people moving to the 20 north? 21 DR. MARVIN SHAFFER: It includes the 22 wages that are paid for labour provided in northern 23 Manitoba, and -- and that would be the wages paid to 24 people who are immigrants from out of Manitoba. Ιt 25 would include the wages paid to northern Aboriginals in

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3747 northern Manitoba, and it would be the labour -- or the 1 wages paid to other Manitobans for work in northern 2 Manitoba. 3 MR. SVEN HOMBACH: So this then shows 4 5 where the work is being done, not where the workers are 6 from? 7 DR. MARVIN SHAFFER: That's correct. And then we have to make some assumptions about for 8 9 work being conducted in southern Manitoba, where the workers likely to come from. And similarly for the --10 the work and the wages paid for work in northern 11 12 Manitoba, where the workers likely to come from. 13 MR. SVEN HOMBACH: Okay. Now, this 14 particular table that still shows black lining was 15 flagged by Manitoba Hydro in February. What was the reason for the increase and 16 17 projected wages for the Preferred Development Plan, and 18 why is it actually going up only very slightly for 19 Keeyask and Gas but quite a bit more for the Preferred 20 Development Plan? 21 DR. MARVIN SHAFFER: I'd have to confer 22 with -- the people within Manitoba Hydro provided me 23 this information, but there were some revisions to the 24 estimates that were made with respect to the employment 25 and those wages, and so we endeavour to provide the

latest information to you. 1 2 When you say they were -- you know, I --I can try to find out the exact reasons for those 3 changes, but those were based on the reviews of the 4 5 data and some, I think, initial errors in the estimates 6 I was provided originally. 7 MR. SVEN HOMBACH: So we can do this by way of Undertaking from Manitoba Hydro to advise as to 8 9 the underlying reasons for the changes filed in February 2014. 10 11 MR. ED WOJCZYNSKI: Yes, we will do 12 that. 13 MR. SVEN HOMBACH: Perhaps, Mr. 14 Wojczynski, if we could have a second part to that 15 Undertaking. Could Manitoba Hydro advise why there 16 appears to be a disproportionate increase to southern 17 Manitoba jobs, or southern Manitoba salaries, compared 18 to northern Manitoba. 19 MR. ED WOJCZYNSKI: We will include 20 that in the explanation. 21 MR. SVEN HOMBACH: Thank you. 22 23 --- UNDERTAKING NO. 58: Manitoba Hydro to indicate 24 the underlying reasons for 25 the changes filed in

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3749 February 2014; and to 1 2 advise why there appears to 3 be a disproportionate increase to southern 4 5 Manitoba jobs, or southern 6 Manitoba salaries, compared to northern Manitoba 7 8 9 THE CHAIRPERSON: Mr. Hombach, we've been at it for about an hour and a half. I wonder if 10 it would be an appropriate time to take a few minutes 11 12 break. Let's take ten (10) minutes. My intention is 13 to go at least to six o'clock, but we'll consult on 14 that topic while we break. 15 MR. SVEN HOMBACH: Certainly. I'll go 16 for as long as the panel would like me to, but I'll aim to finish up today at 6:00. 17 18 THE CHAIRPERSON: So ten (10) minutes, 19 please. 20 21 --- Upon recessing at 4:30 p.m. 22 --- Upon resuming at 4:45 p.m. 23 24 THE CHAIRPERSON: I believe all the 25 players are here, so we can resume the proceedings.

3750 1 MR. SVEN HOMBACH: Yes, thank you, Mr. Chairman. 2 3 CONTINUED BY MR. SVEN HOMBACH: 4 5 MR. SVEN HOMBACH: Now, there was a 6 question by the Chairman earlier this afternoon about 7 the jobs on an annual basis. And perhaps I can refer the Hydro panel to page 175 of the Board counsel book 8 9 of documents. 10 Figure 13.5 from the revised Chapter 13 that was filed in February provides a breakdown of 11 12 annual employment for project construction. And, first 13 of all, I'd like to confirm that -- whether these are 14 only direct jobs or whether this includes indirect and 15 induced adduced jobs? 16 DR. MARVIN SHAFFER: These are -- table -- Figure 13.5 is only direct jobs for project 17 18 construction. 19 MR. SVEN HOMBACH: So that includes 20 Manitoba Hydro employees and contractors working on the 21 project? 22 DR. MARVIN SHAFFER: Yes. 23 MR. SVEN HOMBACH: And would it include 24 subcontractors working for the contractors? 25 DR. MARVIN SHAFFER: It -- it wouldn't

include the -- the indirect effects, meaning the 1 workers who are producing goods and services, to be 2 provided to the contractors. But it would include the 3 workers on the -- the main contracts working on the 4 5 project -- directly working on the project. 6 MR. SVEN HOMBACH: Okay. And these --7 DR. MARVIN SHAFFER: You know, there -there can be some boundary issues here about what's 8 9 direct and what's indirect, but, basically, we're trying to include in direct all of the workers who are 10 working on the project for the principal contractors. 11 12 MR. SVEN HOMBACH: So what this chart 13 shows then is that there's a significant job spike for construction with the Preferred Development Plan and 14 15 then by about 2027/2028 it levels off significantly. And then there's some additional 16 17 construction jobs starting at about 2040, correct? 18 DR. MARVIN SHAFFER: That's correct. 19 MR. SVEN HOMBACH: And is that just --20 what are those 2040 and -- and later jobs? 21 DR. MARVIN SHAFFER: Well, all -- all 22 of the plans were -- were created, if you like, 23 designed so that they would be capable of meeting 24 Manitoba Hydro's load. And just to be able to get to 25 the end of that planning period, the assumption was

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3752 made that gas plants would be constructed as required 1 to meet the load at the end of the planning period. 2 3 MR. SVEN HOMBACH: So what we're 4 looking at towards the end of the planning period, 5 those are all jobs for gas construction? 6 DR. MARVIN SHAFFER: I believe so. 7 There --8 MR. SVEN HOMBACH: And --9 DR. MARVIN SHAFFER: -- there could be 10 -- I'd have to check, there could be some major maintenance but I don't believe so. I believe they're 11 12 construction on gas plants at the end of the planning 13 period. And that's just an assumption to be able to 14 have a consistent plan that can meet the -- the load 15 growth. 16 MR. SVEN HOMBACH: And the chart indicates that the 'Y' axis is in person years, but 17 18 what that really means is that by about 2018 you expect 19 to have about seventeen hundred and fifty (1,750) 20 people working on the project? Am I reading it 21 correctly? 22 DR. MARVIN SHAFFER: On the projects. 23 I -- I don't -- could you repeat the number again 24 'cause I see it's... 25 Sorry, about fifteen MR. SVEN HOMBACH:

hundred (1,500) and --1 2 DR. MARVIN SHAFFER: Yes. 3 MR. SVEN HOMBACH: -- fifty (50) person 4 years. 5 DR. MARVIN SHAFFER: It seems to peak 6 at just -- just over fifteen hundred (1,500). 7 MR. SVEN HOMBACH: And -- and perhaps you can define the concept of person year. 8 What 9 exactly constitutes a person year? 10 DR. MARVIN SHAFFER: A person year would be employment -- full-time employment over the 11 12 course of a year. And --13 MR. SVEN HOMBACH: Does this --14 DR. MARVIN SHAFFER: -- and, so what it 15 would do, it would take some seasonal work perhaps, or 16 part-time work and consider those part of a person year. They would... 17 18 MR. SVEN HOMBACH: So whether you've 19 got somebody making thirty thousand dollars (\$30,000) or a hundred thousand dollars (\$100,000), each of those 20 21 persons would constitute one (1) person year of 22 employment? There's no weighting for salary? 23 DR. MARVIN SHAFFER: There's no 24 weighting for salary on this table. 25 MR. SVEN HOMBACH: Okay. How many --

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3754 1 DR. MARVIN SHAFFER: There is obviously 2 in the table that shows the total project wages. 3 MR. SVEN HOMBACH: And how many hours 4 constitute a person year? 5 MS. JANE KIDD-HANTSCHER: Two thousand 6 (2,000). 7 MR. SVEN HOMBACH: Thank you. 8 9 (BRIEF PAUSE) 10 11 MS. JANE KIDD-HANTSCHER: Two thousand 12 (2,000). 13 THE CHAIRPERSON: I'm surprised there's 14 not another peak on that -- that top graph. It's --15 sorry, the top line there regarding your Preferred Plan 16 again in '23/'24. This is showing a peak which I 17 believe is probably related to Keeyask, but why 18 wouldn't there be another peak in the early '20s 19 related to Conawapa? 20 DR. MARVIN SHAFFER: Well, there is 21 that bump in the 2020 to 2021 period where you're 22 getting the peak work force in -- in Conawapa. Of 23 course, in the earlier years you're getting not just 24 Keeyask but you're -- you're getting the 25 interconnection as well.

CONTINUED BY MR. SVEN HOMBACH: 1 2 MR. SVEN HOMBACH: And if we could flip over one (1) page to page 176 of the book of documents, 3 4 Figure 13.6, that shows O&M jobs, operations and 5 maintenance jobs that are being projected. 6 And -- and first of all, are these 7 cumulative numbers, or are the operation and maintenance jobs expected to increase on an annual 8 9 basis out to about 2040? 10 DR. MARVIN SHAFFER: Those are the 11 total number of jobs in those years in those plans. 12 MR. SVEN HOMBACH: So the Preferred 13 Development Plan shows operational jobs peaking to about fifty (50) by about 2018. 14 15 That would be the in-service date of 16 Keeyask? 17 DR. MARVIN SHAFFER: Correct. 18 MR. SVEN HOMBACH: And it then shows 19 then going up to about a hundred and twenty-five (125) by about 2025/'26; that's the in-service date of 20 21 Conawapa? 22 DR. MARVIN SHAFFER: That's correct. 23 MR. SVEN HOMBACH: And then it flat 24 lines for a long period of time 'cause there wouldn't 25 be new construction?

3756 DR. MARVIN SHAFFER: It's not just 1 const -- it wouldn't be new projects that needed the 2 operations and maintenance until at the very end of the 3 planning period you start to build gas plants, which is 4 5 what is assumed in that plan, to -- to meet the growing load at 2040 or 2041. 6 7 MR. SVEN HOMBACH: Right. So the upward swing that we start seeing in 2040, that's the 8 9 construction of new gas facilities at that time? 10 DR. MARVIN SHAFFER: Not -- in this 11 case the operations and maintenance. 12 MR. SVEN HOMBACH: Sorry, thank you. 13 And what is the reason for the very incremental 14 increase with the Keeyask/Gas Plans and the All Gas 15 Plan? Is it the gradual ramping up of new gas turbines as needed? 16 17 DR. MARVIN SHAFFER: That's correct. 18 You're just adding gas turbines on a regular basis 19 after Keeyask and the K22/Gas Plan and -- and of course 20 right from the outset in the All Gas Plan. And so 21 every bump is -- is basically another increment of 22 capacity coming on stream. 23 MR. SVEN HOMBACH: Okay. Now, when we 24 looked at Figure 13.5, I believe you indicated that the 25 -- the maximum number of drops per year would be about

3757 fifteen hundred and fifty (1,550) for construction? 1 2 DR. MARVIN SHAFFER: I -- I believe that's correct. I don't have the table in front of me 3 4 that has the actual numbers corresponding to this 5 graph, but I'm -- it's basically very close to that 6 number. 7 MR. SVEN HOMBACH: And perhaps I could turn your attention to page 180 of the book of 8 9 documents. And let's scroll down to line 17. 10 Now, when Manitoba Hydro filed to the NFAT on August 16, 2013, it assumed that for the 11 12 northern projects 70 percent of the construction 13 positions would be filled by Manitobans. And in the 14 February revision that was revised guite significantly 15 to about 40 to 45 percent. 16 What changed? 17 DR. MARVIN SHAFFER: I think it was 18 just a reassessment of labour market conditions, and 19 part -- possibly based on new information coming out of 20 Wuskwatim. As I'm sure you're aware, there's very 21 tight labour markets for a lot of the skills that are 22 needed in these projects. And those were the 23 assumptions that were made based on discussions with 24 project management personnel in -- in Manitoba Hydro. 25 I would say these -- these revisions,

3758 again, were conservative. Because the way in which we 1 did our analysis, we assumed no net benefit associated 2 with the out of province workers. So to some extent 3 4 they're -- they're a conservative representation of --5 of the potential net benefits from the employment 6 generated in -- in the north. 7 MR. SVEN HOMBACH: So when you --8 MR. ED WOJCZYNSKI: I might add that 9 the -- the decrease in the northern part is -- is in -in -- to some degree, at least, counting for the kind 10 of trends that Mr. Bowen was testifying in terms of the 11 12 construction market. So it was accounting for some of 13 those things too. 14 MR. SVEN HOMBACH: So then picking up 15 on the theme of shortages, has Manitoba Hydro broken this down into individual roles and reached an 16 assessment on which types of jobs would primarily be 17 18 coming out of province? 19 (BRIEF PAUSE) 20 21 22 MR. ED WOJCZYNSKI: (a) We did not 23 utilize the carpenter versus electrician versus heavy 24 equipment op. We didn't go into those roles 25 specifically when doing this update.

3759 Secondly, this update was, in good part, 1 influenced by the availability of the Economic Impact 2 Assessment from the Bureau of Statistics, which gave an 3 -- an estimate of in province/out of province. So that 4 was an influential input into this. That was not 5 available earlier. 6 7 MR. SVEN HOMBACH: And even at a -- a slightly broader level, Mr. Wojczynski, has there been 8 9 any assessment about -- as to whether it's 10 disproportionately skilled trades that would be coming 11 from outside Manitoba as opposed to untrained 12 positions, or anything like that? 13 MR. ED WOJCZYNSKI: Manitoba Hydro has 14 given considerations to those things. That wasn't part 15 of the input that was provided to Dr. Shaffer in terms 16 of specific numbers though. But Manitoba Hydro is -is very aware of the different skilled trades and 17 18 availability in Manitoba. 19 And that was some of the information 20 that our construction people used when they developed 21 these new estimates and considered making the camps --22 I -- I hesitate to call them luxury camps, but high quality camps and providing other amenities that would 23 24 be attractive to workers because of the awareness of --25 of some of the more skilled trades, the difficulty of

finding them in Manitoba. 1 2 So they -- there -- they did look at that on a role-by-role basis, but that wasn't the input 3 we provided to Dr. Shaffer. 4 5 MR. SVEN HOMBACH: But it's input that 6 Manitoba Hydro obtained? 7 MR. ED WOJCZYNSKI: Sorry, could you repeat the question. 8 9 MR. SVEN HOMBACH: But is it input that 10 Manitoba Hydro obtained? Do you provide -- or did you prepare that analysis? 11 12 MR. ED WOJCZYNSKI: The analysis I'm 13 referring to is what the construction people were 14 considering when they developed their new construction 15 cost estimates. And ultimately, when Manitoba Hydro 16 adopted the numbers out of the economic impact 17 assessment it was part of the background that caused us 18 to think that this lower number was probably 19 reasonable. 20 MR. SVEN HOMBACH: But Manitoba Hydro 21 did not obtain or conduct a labour market analysis or 22 has a written report on that issue? 23 MR. ED WOJCZYNSKI: I will have to 24 check that. But my understand -- subject to check, we 25 did not obtain a formal labour market analysis of the

3761 kind you're -- that I -- that you're referring to, but 1 we did do a general analysis, without having a specific 2 report like you're talking about of, what is the 3 situation in the -- in the labour market. 4 5 MR. SVEN HOMBACH: Okay. Perhaps 6 Manitoba Hydro can undertake to -- to confirm this, and 7 if it has commissioned or obtained a report, to file it. 8 9 MR. ED WOJCZYNSKI: I will take that 10 undertaking to confirm that we do not have a formal labour market analysis of that kind, although we did do 11 12 a general analysis on that. But we'll come back with a clarification on that. 13 14 MR. SVEN HOMBACH: There was a second 15 part to that undertaking, too --16 MR. ED WOJCZYNSKI: Oh. 17 MR. SVEN HOMBACH: -- which was to file 18 the analysis --19 MR. ED WOJCZYNSKI: Oh, sorry. 20 MR. SVEN HOMBACH: -- that is available. 21 22 MR. ED WOJCZYNSKI: And if we have an 23 analysis of the kind you're talking about, we will 24 provide that. 25 Okay, two (2) parts. A) confirm that

3762 Manitoba Hydro did not have a formal labour market 1 analysis that -- that broke it down, the construction 2 jobs by very specific roles; second, b) if we did do 3 such -- if we did do an analysis of that with that 4 5 breakdown, we will provide it. 6 A) confirm that Manitoba 7 --- UNDERTAKING NO. 59: 8 Hydro did not have a formal 9 labour market analysis that 10 broke it down, the 11 construction jobs by very 12 specific roles; second, b) 13 if we did do such an 14 analysis of that with that 15 breakdown, we will provide 16 it. 17 18 CONTINUED BY MR. SVEN HOMBACH: 19 MR. SVEN HOMBACH: Thank you. So 20 staying then on the topic of jobs, Mr. Wojczynski or 21 Dr. Shaffer, line 19 on the page that we're looking at, page 180, also indicates that of the 40 to 45 percent 22 23 of Manitoba construction positions, about half would be 24 filled by northern Aboriginals. 25 That's still Manitoba Hydro's most

recent estimate? 1 2 DR. MARVIN SHAFFER: I -- I actually was looking at that and would like to check that and 3 4 get back to you tomorrow on that. And the reason I say 5 that, we were changing quite a number of numbers in the 6 -- in the series of revisions in the labour market. And again, in the interest of being conservative, 7 because bear in mind the -- the larger the percentage 8 9 of norther Aboriginal employment, the greater the net benefit to the -- the Preferred Plan. 10 11 I was just checking my other notes. And 12 I -- I thought that we were using a number of 37.513 percent, not 50 percent there. And -- and that would bring the Aboriginal -- northern Aboriginal share of 14 15 the workers of the total workforce to the low end of 16 the range that was provided in the Keeyask EIS. 17 Now, one (1) of the things I said 18 earlier was, I think it's important not to get too 19 stuck on the number. Because these numbers are very uncertain, it will depend on a variety of factors. 20 21 We know that Manitoba Hydro and its 22 partners in this project will be doing everything they 23 can to -- to maximize that percentage. And if they 24 achieve more, there'll be greater net benefits. So I 25 think it would be important to -- to read those numbers

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in that light. 1 2 They could be somewhat less than what's shown on that page and they -- efforts will be made to 3 increase that. 4 5 MR. SVEN HOMBACH: So the -- the 6 current estimate that's indicated on page 181, perhaps 7 we can get that on screen. 8 DR. MARVIN SHAFFER: I want to check the 9 50 percent. And that would carry over to the 20 to 10 22.5 percent on page 181 of your document. 11 MR. SVEN HOMBACH: So perhaps we can 12 make that a formal undertaking, for Manitoba Hydro to 13 advise what percentage of construction jobs it believes will be filled with northern Manitobans; both, in terms 14 15 of the percentage of total Manitoba jobs, and in terms 16 of the overall percentage. 17 DR. MARVIN SHAFFER: Yes. I -- I have 18 a set numbers that were provided in a -- in a revised 19 response to the PUB/IR-245. And I just want to make 20 sure that they are the most -- the latest estimates 21 that we have, but I will check with folks and get back 22 to you in the morning. 23 MR. SVEN HOMBACH: Thank you. 24 25 --- UNDERTAKING NO. 60: For Manitoba Hydro to what

3765 1 percentage of construction 2 jobs it believes will be filled with northern 3 Manitobans; both, in terms 4 5 of the percentage of total Manitoba jobs, and in terms 6 7 of the overall percentage. 8 9 CONTINUED BY MR. SVEN HOMBACH: 10 MR. SVEN HOMBACH: Let's turn over to 11 page 182 --12 MR. ED WOJCZYNSKI: Can I just make a 13 small comment. The -- these employment numbers that 14 we're talking about were pre the most recent cost estimates. The reason one of the -- the cost of this 15 16 went up and hurt the economics, obviously, is that the 17 major cost is employment, but the increased employment 18 of the higher cost estimates has not been captured in 19 this work. It's -- that -- that is much too recent, so 20 -- so the -- these numbers are very conservative in 21 that sense. 22 Perhaps, you can MR. SVEN HOMBACH: 23 clarify the -- the increased cost estimate as result of 24 labours. Is that primarily attributable to more people 25 being required or to the average salary being higher

than anticipated? 1 2 MR. ED WOJCZYNSKI: Subject to check, it's more -- more people required, more hours required, 3 rather than a higher wage. Although, the way -- it's 4 possible the wages went up, as well, but I -- I believe 5 it is more to do with total number of hours for 6 7 everything being higher. 8 MR. BYRON WILLIAMS: Mr. Chair, it's 9 Mr. Williams here, the short guy in the back. If -- if 10 I could be so rude as to -- to interrupt us for one (1) second, just because we're up tomorrow. 11 12 We weren't sure if we caught Dr. 13 Shaffer's reference to the IR. Is it 2-45 or second round 245? And that would just -- and I apologize very 14 15 much, Mr. Hombach, for interrupting. 16 DR. MARVIN SHAFFER: 245. 17 MR. BYRON WILLIAMS: Second round? 18 DR. MARVIN SHAFFER: No, I've got I-19 245. 20 MR. BYRON WILLIAMS: First round, okay, 21 and I apologize very much for interrupting. 22 CONTINUED BY MR. SVEN HOMBACH: 23 24 MR. SVEN HOMBACH: Let's flip to page 25 182 of Board counsel's book of documents. Table 13.6

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3767 at the bottom of that page. That shows the net benefit 1 and, Dr. Shaffer, what we were looking at before in 2 Table 13.5 were the gross jobs. What we're looking at 3 here are the net jobs, correct? 4 5 DR. MARVIN SHAFFER: Well, --6 MR. SVEN HOMBACH: Page 182. 7 DR. MARVIN SHAFFER: Yes, it's not the net jobs, per se. It's the net benefits expressed in 8 9 dollars. 10 MR. SVEN HOMBACH: So you -- you pre-11 empted my next question, so these are not total jobs, 12 these are dollars? 13 DR. MARVIN SHAFFER: That's correct. 14 MR. SVEN HOMBACH: And what unit is 15 this; is this hundreds of thousands? 16 DR. MARVIN SHAFFER: I believe this is in millions. 17 18 MR. SVEN HOMBACH: Millions? Okay. 19 Has Manitoba Hydro prepared or does it have the numbers 20 to provide a similar table, in terms of net person 21 years of employment rather than millions? 22 DR. MARVIN SHAFFER: The difficulty --23 I -- I'm not sure what you're asking for when you say 24 the "net employment". 25 MR. SVEN HOMBACH: Per -- perhaps, we

3768 can take this in two (2) parts. These net benefits, I 1 understand from your earlier testimony, that excludes 2 benefits that accrue outside Manitoba, or what is known 3 4 as leakages, correct? 5 DR. MARVIN SHAFFER: It excludes that, but it also only includes a portion of the wages that 6 7 go to Manitoban workers. So as I said earlier, it would include 15 percent of the wages being paid to 8 9 Manitobans generally. And it includes 50 percent of 10 the wages being paid to northern Aboriginal workers. 11 And in the -- in the Chapter 13, you'll 12 see references to some studies that look at the -- the 13 opportunity costs of labour, and it's roughly based on 14 that. 15 It also -- I also want to make clear, these are rough estimates. They're -- they're a best 16 judgment as to what -- for example, the -- the earnings 17 18 would have been for people who would otherwise be 19 working. You know, and by and large over the long haul the people working on this project and the trades that 20 21 they're talking about would otherwise be working. 22 In Northern Manitoba it's different. А 23 smaller percentage of the workers would otherwise have 24 comparable employment opportunities and that's why 25 there's that much higher net benefit associated with --

3769 with their wages. It's -- it's the way in which 1 economists would look at the net benefits in a benefit 2 cost analysis as distinct from an economic impact 3 4 study. 5 6 (BRIEF PAUSE) 7 8 MR. SVEN HOMBACH: The -- the analysis 9 as to the percentages, was that performed by you, or 10 were you relying on external data? DR. MARVIN SHAFFER: It was -- I -- I 11 12 took the information on wages and the location of the 13 jobs from Manitoba Hydro and then I applied my best 14 judgments to these net benefits per dollar of wage. MR. SVEN HOMBACH: So -- so explain the 15 16 following, please, in line 9, which is visible on the screen right now, it looks like the overall percentage 17 18 of total gross wages paid actually hasn't changed that 19 much. But if we look at the numbers in Table 13.6, 20 there's a significant reduction in the net benefit for 21 northern Manitoba for the Preferred Development Plan? 22 DR. MARVIN SHAFFER: That's correct. 23 MR. SVEN HOMBACH: And a significant 24 increase for southern Manitoba. Can you explain the 25 change?

3770 DR. MARVIN SHAFFER: Well, let's start 1 with the northern Manitoba. There's a reduction --2 there's a reduction in the net benefit because we're 3 assuming a much higher proportion of the workers are 4 5 coming from out of province. And for purposes of this 6 analysis, we didn't attribute any net benefit to 7 Manitobans for workers coming in out of the province. And the increase in the net benefit for 8 9 the southern Manitoba workers I think relates to the increase in the wages that -- that were assumed in the 10 11 revised estimates. 12 MR. SVEN HOMBACH: So going back to 13 this distinction between direct, indirect, and induced benefits, if -- if you're -- if you have a skills 14 15 trade, or somebody working for the contractor that 16 lives in Quebec, or lives in Ontario, and commutes onto the site, they're going to pay their income taxes 17 18 outside Manitoba, correct? 19 DR. MARVIN SHAFFER: They -- they --20 well, they may pay some of them to Manitoba. I'm not 21 sure of the tax provisions for migrant workers, but 22 they may pay some to Manitoba. 23 MR. SVEN HOMBACH: But -- but you might 24 be losing -- you might be losing some of the tax 25 revenue to government?

3771 DR. MARVIN SHAFFER: 1 Yes. I -- vou know, I suppose what you're saying is I should have 2 increased the benefits for the Preferred Development 3 Plan. And what I've been trying to say in several 4 5 remarks now is -- is we took a conservative approach. 6 And with respect to immigrants, the assumption was, yes, they may be paying some taxes, and 7 certainly there'd be some sales taxes associated with 8 9 their purchases of good and services in the province. But, there is correspondingly, particularly those who 10 move in a more permanent way, there's correspondingly 11 12 increased government costs associated with the 13 increased population that -- that that can give rise 14 to. 15 MR. SVEN HOMBACH: Are you making the 16 assumption that most of the non-Manitoba jobs are going 17 to be fly-in jobs where people get flown to the work 18 camp, work there for a while, and then fly back to 19 where they're from? 20 DR. MARVIN SHAFFER: I didn't go into that level of detail. And I would leave it to the 21 22 construction managers to -- to tell you what proportion 23 would -- would move into fly in/fly out camps. 24 For the operating jobs, of course, it's 25 different yet again. But it was -- it was an

assumption saying from a Manitoba point of view, first 1 of all, the -- the principle net benefit to those 2 workers would be the wages they received less the 3 minimum amount they would have to be paid in order to 4 5 attract them to the -- the job. In other words, the 6 minimum compensation they would need in order to work 7 there. 8 Bearing in mind, they're giving up other 9 work opportunities and it is a difficult work environment for them, especially if -- if it was fly 10 in/fly out. And so you'd have to make a -- an 11 12 assumption about that. As far as the -- the income 13 taxes they pay, or the sales taxes they pay, again, 14 being conservative, I didn't include that as net 15 benefits of -- of their work in the province. 16 MR. SVEN HOMBACH: And these are just 17 direct jobs, right, there's no induced jobs component 18 here? That's correct. 19 DR. MARVIN SHAFFER: 20 MR. SVEN HOMBACH: Okay. So for 21 purposes of the economic impact assessment, you'd have 22 to assume that if someone's working in Manitoba but 23 just lives on the camp and then flies back, that presumably would be reduced, if any, amount of induced 24 25 benefits 'cause they wouldn't be spending their money

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3773 in Manitoba? 1 2 DR. MARVIN SHAFFER: Well, there certainly would be reduced impacts. I wouldn't use the 3 word 'benefit' for any of the indirect and -- and 4 5 induced effects, but there'd be reduced impacts. 6 7 (BRIEF PAUSE) 8 MR. SVEN HOMBACH: So we've discussed 9 leakages as they pertain to jobs. I'd like to spend a 10 11 few minutes to address leakages as they actually 12 pertain to supplies. 13 Now, you're aware that MNP, or Meyers 14 Norris Penny, has -- has filed a report that deals with 15 environmental issues, and has addressed supplies of 16 some materials in their report? 17 MR. ED WOJCZYNSKI: Aware of that. 18 MR. SVEN HOMBACH: And I'd like to take 19 you to just a few excerpts of the MNP report, because 20 this is not a pop quiz. Let's put the information in 21 front of you. Let's go to page 69 of the book of documents. And scroll to the bottom. MNP discusses 22 23 that the steel would most likely come from China. 24 Now, is -- is that Manitoba Hydro's 25 understanding?

3774 MR. ED WOJCZYNSKI: I'm afraid I'm not 1 able to answer that. We -- we could get Mr. Barnlund 2 or do that as an undertaking. I -- I don't believe 3 there's anybody in the panel. I know, Ian, if by 4 5 chance --6 MR. IAN PAGE: Actually -- yeah. 7 MR. ED WOJCZYNSKI: -- okay. Mr. 8 Page... 9 MR. IAN PAGE: I confirm that all of the steel projects -- products assumed in -- in Keeyask 10 are assumed to be purchased within Canada. 11 12 MR. SVEN HOMBACH: And I might be 13 touching on CSI but is there any type of local content 14 requirement in the contracts, or are you just -- what 15 are you basing that assumption on? 16 MR. IAN PAGE: I'm basing that on the -17 - on the information that we actually gave to -- or 18 provided to Manitoba Bureau of Statistics. Now, that's 19 where we -- now our model -- or we provide -- to where 20 the items are purchased. 21 So we maybe purchase at Gateway Canada. Their -- their model would then go -- take the further 22 23 step and -- and do an assessment as to where it was 24 actually sourced, so that's -- that's -- I guess there 25 was a little bit of a misunderstanding in the TyPlan

3775 report that we were looking at where things were 1 actually sourced from. 2 3 But we -- we look at where it's purchased from, and Manitoba Bureau of Statistics will 4 5 then determine -- make that determination in their model as to where it's likely to be purchased. And I 6 don't have that information. 7 8 MR. SVEN HOMBACH: Okay. And, Mr. 9 Page, you indicated that you're assuming that it's sourced from Canada but you're not sure --10 11 MR. IAN PAGE: I'm saying -- I'm saying 12 -- sorry, I meant to say it was purchased within -from Canada. 13 14 MR. SVEN HOMBACH: But you're not 15 suggesting that it's purchased within Manitoba. 16 MR. IAN PAGE: No. No, none of the 17 steel products were shown as --18 MR. SVEN HOMBACH: And --19 MR. IAN PAGE: -- from Manitoba. 20 MR. SVEN HOMBACH: -- and the same with cement. You're not assuming that cement is supplied 21 22 from Manitoba? 23 MR. IAN PAGE: That's -- that's 24 correct. 25 MR. SVEN HOMBACH: Or that the turbines

are supplied from Manitoba? 1 2 MR. IAN PAGE: Absolutely not, no. 3 4 (BRIEF PAUSE) 5 6 MR. SVEN HOMBACH: And just to clarify, 7 when you said you're assuming that the -- the steel is purchased from Canada, you're -- you're making the 8 9 assumption that it's steel manufacturers in Canada? 10 MR. IAN PAGE: I'm saying that we 11 purchased it from a -- from a Canadian supplier is --12 is the assumption. And where that -- and our -- our 13 people -- our construction people don't then go beyond that and say, Well, there -- well, the person in -- in 14 15 Toronto or -- or southern Ontario, or wherever, or 16 Alberta would have turned around and bought it -bought it from some other place. We would -- we don't 17 18 -- we don't go that far in our analysis. We let 19 Manitoba Bureau of Statistics do that for us. 20 MR. SVEN HOMBACH: So have you actually 21 provided Manitoba Bureau of Statistics with specific data for this project, or are they just making a 22 23 general assumption based on --24 MR. IAN PAGE: We -- we --25 MR. SVEN HOMBACH: -- similar sized

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construction projects? 1 2 MR. IAN PAGE: -- no, we -- we do a detailed -- there's probably about forty (40) line 3 items here. I've got of different -- different 4 5 components as to whether they're -- where they're going 6 to be sourced within -- and when I say "sourced" I mean 7 purchased -- purchased from a Manitoba supplier or purchased from -- from a Canadian supplier, or 8 9 purchased directly from -- from somebody outside of 10 Canada. 11 12 (BRIEF PAUSE) 13 14 MR. SVEN HOMBACH: Let's deal then with 15 the multiple account benefit cost analysis. But -- but before we go there and, Dr. Shaffer, this is a question 16 17 that might be addressed to you: The -- the economic 18 impact assessment doesn't draw a distinction between 19 different accounts, right? It's just limited to direct, indirect, and induced jobs, but it doesn't 20 21 necessarily break it down further or allocate the 22 benefits between different groups? 23 MR. IAN PAGE: The -- the economic 24 impact analysis just identifies Manitoba, the rest of 25 Canada and rest of world.

3778 1 2 (BRIEF PAUSE) 3 4 MR. SVEN HOMBACH: And for the multiple 5 account benefit cost analysis, you actually have a bit 6 of a breakdown that deals with the different accounts. And there -- there's somewhat of a proxy for -- for 7 actual stakeholders in the -- in the plan. 8 9 Is that fair to say? 10 DR. MARVIN SHAFFER: Yes. It -- it wouldn't be so much breaking down the different types 11 12 of jobs as between direct and indirect and induced, for 13 example. That's all contained -- whatever -- whatever 14 benefits we -- we ascribe to the employment is all 15 contained in that economic activity account. The other 16 accounts are dealing with other interests or 17 stakeholders, as you say. 18 MR. SVEN HOMBACH: So let's just 19 refresh our memory and go to a listing of the accounts 20 for a moment. Those can be found at page 156 of Board counsel's book of documents, Tab 9. 21 22 DR. MARVIN SHAFFER: Yes. 23 MR. SVEN HOMBACH: So you indicate that 24 the market valuation account deals with Manitoba Hydro 25 and its project partners?

3779 DR. MARVIN SHAFFER: 1 That's correct. 2 MR. SVEN HOMBACH: But that doesn't deal with Manitoba Hydro ratepayers. That deals with 3 the utility itself and its partners, correct? 4 5 DR. MARVIN SHAFFER: Yes. So it does 6 deal with ratepayers in -- in one respect. That what 7 we're looking at is a net cost of meeting domestic requirements. You know, you really pick that up in 8 9 that account. 10 So, you know, Manitoba Hydro is --11 because its rates are set on a cost recovery basis, 12 more or less, obviously what happens in that account affects customers. 13 14 And so in the customer account we're 15 looking at different things. As I said earlier, we're 16 looking at those things that aren't included in the net costs of -- of meeting Manitoba's supply -- or 17 18 requirements, the load, I should say. We're looking at 19 rate impacts in the short versus longer term and we're 20 looking at differences in reliability, at least in a 21 non-monetized sense in -- in this analysis. 22 MR. SVEN HOMBACH: You indicated that 23 the Manitoba Hydro customer account, that deals with 24 distributional aspects over time? 25 DR. MARVIN SHAFFER: That's -- that's

3780 what we tried to -- to provide information on in that 1 account. That's correct. 2 3 MR. SVEN HOMBACH: But it doesn't deal with, for example, different classes of customers or 4 5 low income versus high income customers. It doesn't go 6 to that level of distinguishing? 7 DR. MARVIN SHAFFER: No, it does not. 8 MR. SVEN HOMBACH: And the Manitoba 9 government, that deals with net tax benefits, you 10 explained earlier today? 11 DR. MARVIN SHAFFER: That's correct. 12 MR. SVEN HOMBACH: And I -- I actually 13 read your book from cover to cover, Dr. Shaffer, and I 14 -- I have to say it was interesting. But I did note 15 that you call it a taxpayer account in your book, and 16 it's called a Manitoba government account here. 17 And I -- I am wondering whether you're 18 assuming that the interest of taxpayers and government 19 are necessarily aligned and what you're basing that on. 20 DR. MARVIN SHAFFER: It sounds like a political question. There -- for -- for all intents 21 22 and purposes, they're aligned here. I realize that 23 some people view government as distinct from 24 themselves, but what we're talking about are net 25 revenues accruing to government, and, therefore, to the

potential benefit of taxpayers. 1 2 And so there's no -- there's no -- you shouldn't take any significance to my calling it 3 Manitoba government here and taxpayers in -- in the 4 5 book. Could it -- I think in many cases, I just go 6 government/taxpayers when I try to deal with this. MR. SVEN HOMBACH: So different names 7 in concept? 8 9 DR. MARVIN SHAFFER: That's correct. 10 And -- and the benefit cost concept is trying to distinguish those expenditures that Manitoba Hydro is 11 12 incurring because of real resource costs; whether it's 13 labour, supply, steel, concrete and the like and those 14 expenditures it's incurring that are, in effect, just 15 transfers to government. They're not paying for a 16 service. They're not paying to -- to -- for any particular cost. They are just a net benefit to the 17 18 government and, I would say, and therefore taxpayers, 19 at least potentially. 20 MR. SVEN HOMBACH: At the Manitoba 21 economy account, that really would be capturing what 22 you'd be capturing with Manitoba impacts -- economic 23 impact analysis. 24 DR. MARVIN SHAFFER: It relates to the 25 impact analysis, but it's much narrower. It's not --

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3782 it -- it's -- you're quite right. This is a -- the 1 economic impact studies look at the broader 2 consequences to the economy in terms of demand for 3 labour, demand for goods and services, both directly, 4 5 indirectly and induced. This is looking at -- and if I can use 6 7 some economic jargon, but it sounds like you're an expert now, it should be no problem. I -- I'll call it 8 producer surplus, or economic rent. In other words, 9 10 the question is: Manitoba Hydro's expenditures include expenditures on labour. And -- and let's just star --11 12 stop there. And that's a cost to Manitoba Hydro. 13 But from a social point of view, the 14 question is: Well, to what extent are those costs 15 providing a benefit to some other party, an external 16 benefit, if you like? While they would be providing a 17 benefit, if the wages Manitoba Hydro is paying exceeds 18 the true cost of that supply -- I'm using 'true' but I 19 - 'cause I wanted to avoid the jargon of opportunity 20 cost - but the fact that workers need to be paid 21 something to attract them to this work. 22 And -- and, so, what's captured in a 23 benefit cost analysis like this is the difference between the wages that are paid - part of the market 24 25 valuation, part of the cost of the project - and the

opportunity cost of the labour; in other words, the 1 minimum amount they'd have to receive to willingly to 2 work on the job. That's a net benefit from an economic 3 point of view and that's different, much different from 4 5 an economic impact study that's looking at gross levels 6 of activity which -- which has, obviously, some 7 attractiveness to it, but that isn't what we're looking at here. 8

9 MR. SVEN HOMBACH: Leaving aside the 10 environment account for just a -- a moment. You're -you're aware that the Public Utilities Board and the 11 12 NFAT panel are being asked to assess the socioeconomic 13 impacts and benefit of the plan of alternatives to 14 northern and Aboriginal communities. So, there is a --15 a breakdown at a more granular level than just Manitoba. 16

And, looking at this table in front of us I -- I see the Manitoba economy account, and I see a social account, and under the social account here it ini -- indicates that that takes into account benefits to project partners.

How does the Manitoba economy account and the social account connect? Do you have to remove a benefit from one of them to then include it in the other, or is there risk of double counting?

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3784 DR. MARVIN SHAFFER: There -- there 1 would be a risk of double counting if in that social 2 account, where we're talk about the -- the net benefits 3 to the project partners, which was done qualitatively I 4 5 should point out there. If we try to add that as a --6 as a part of the net benefits overall and we didn't. 7 In fact, if you look at the -- the text in Chapter 13, I'm -- I'm quite certain it states this is a 8 9 distributional. It -- it's just highlighting an 10 important distributional aspect of this particular 11 project. 12 MR. SVEN HOMBACH: On that subject of 13 distributional issues and I'm -- I'm glad that I'm 14 neglecting to turn on the microphone as well. It's now 15 equitably distributed. I'd like to turn you to page 31 16 of the book of documents, please, and take 2. 17 Page 32 did you DR. MARVIN SHAFFER: 18 say? 19 MR. SVEN HOMBACH: Page 31. 20 DR. MARVIN SHAFFER: Thirty-one (31). 21 MR. SVEN HOMBACH: And I'd like to 22 change the discussion a little bit, from the high level 23 account, to the potential actual stakeholders that the 24 panel may have to take into consideration in grappling 25 with the distributional impacts.

3785 Now, this is a chart that's -- that's 1 prepared by PUB advisors. It's not a Manitoba Hydro 2 document. I'm not impugning it to Manitoba Hydro. 3 But, Dr. Shaffer, you -- you've got to account --4 5 you've got an account that deals with Manitoba Hydro 6 ratepayers, correct? 7 DR. MARVIN SHAFFER: I'd say two (2) accounts that deal with Manitoba Hydro ratepayers. 8 9 MR. SVEN HOMBACH: But the Manitoba 10 Hydro account and then the ratepayer account that deals 11 with --12 DR. MARVIN SHAFFER: Yes. 13 MR. SVEN HOMBACH: -- impacts over 14 time. There's sub groups for ratepayers. Some 15 ratepayers might be disproportionately affected, for 16 example, by -- by changes in rates. 17 Are you prepared to accept that? 18 DR. MARVIN SHAFFER: Yes. Though what 19 we're talking about here is the differences and the rate implications of the different plans, which are lim 20 -- more -- much more limited than the fact that there 21 will be rate increases. 22 23 MR. SVEN HOMBACH: All right. There's 24 Manitoba Hydro and its employees and, for example, 25 let's say we were to compare a scenario where Manitoba

3786 Hydro builds a capital-intensive plan and -- or, 1 alternatively, a plan where a significant amount of 2 power is imported. 3 That would change the benefits to 4 5 Manitoba Hydro employees and their salaries. 6 MR. MARVIN SHAFFER: It might change the size of the pool of workers in Manitoba Hydro. I'm 7 not as willing to agree that it would change their 8 9 social welfare over the longer term. 10 If we're talking about skilled workers 11 in an environment where they're increasingly in demand 12 throughout western Canada, it might -- it certainly 13 might affect the size of the -- the workforce at 14 Manitoba Hydro. 15 MR. SVEN HOMBACH: So that's something 16 you'd lump in with construction employment more generally, as we've discussed it already. 17 18 DR. MARVIN SHAFFER: Well, I would look 19 at it in the same way I looked at construction 20 employment. 21 MR. SVEN HOMBACH: And we've already 22 discussed taxpayers and the Manitoba government and you 23 gave a fairly diplomatic answer on to what extent 24 interests are aligned --25 I -- I -- I think, DR. MARVIN SHAFFER:

stripping away the -- you know, some political 1 interests, I would say that they're one and the same in 2 -- in this analysis. 3 MR. SVEN HOMBACH: And then there's --4 5 there's Manitobans and, again, there could be a breakdown into northern Manitobans and southern 6 Manitobans and Aboriginal Manitobans as a sub group 7 that the panel is being asked to look at, correct? 8 9 DR. MARVIN SHAFFER: Yes. 10 MR. SVEN HOMBACH: And even within the 11 Aboriginal group, one could presumably draw a 12 distinction between the First Nations partners and 13 Aboriginal groups that aren't Manitoba Hydro partners. 14 DR. MARVIN SHAFFER: You could, yes. 15 MR. SVEN HOMBACH: Then there's 16 Canadians more generally. If you've got Canadian impacts that aren't crystalized in Manitoba but are 17 18 accrued outside of Canada and other provinces, that would be a Canadian benefit. 19 20 DR. MARVIN SHAFFER: There could be Canadian interests, clearly. 21 22 MR. SVEN HOMBACH: Am I missing 23 anything on that list that's sticking out to you? 24 DR. MARVIN SHAFFER: Well, we could 25 break this down in different ways. We could talk about

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3788 the -- the interests of -- of future generations versus 1 current generations. 2 3 You know, you -- you can cut this a 4 number of different ways. This would be one (1) way to try to look at different stakeholder interests, yes. 5 6 MR. SVEN HOMBACH: Same as a -- a 7 timing component that has to be there --8 DR. MARVIN SHAFFER: There could be, 9 yes. 10 MR. SVEN HOMBACH: Okay. So on that note then, I'd actually like to deal with Aboriginal 11 benefits because that is something that the -- the NFAT 12 13 panel is being asked to look at, and I assume my 14 questions will be directed now to the Manitoba Hydro 15 panel rather than to you, Dr. Shaffer, because I'll be 16 getting into specific numbers. 17 Now, in terms of the categories of 18 benefits, there's jobs to Aboriginal groups, correct? 19 It -- it would help if you say "yes" or "no" just for 20 the transcript. It makes it easier for the reporter. 21 MS. SHAWNA PACHAL: Yes. 22 MR. SVEN HOMBACH: There's payments 23 under the Joint Keeyask Development Agreement? 24 MS. SHAWNA PACHAL: Yes. 25 MR. SVEN HOMBACH: There's the direct

contracting opportunities? 1 2 MS. SHAWNA PACHAL: Yes. 3 MR. SVEN HOMBACH: There's the Aboriginal training initiative? 4 5 MS. SHAWNA PACHAL: And on-the-job 6 training. 7 MR. SVEN HOMBACH: Correct, and there's arguably the Adverse Effects Agreement. 8 9 Would you count that as well? 10 MS. SHAWNA PACHAL: As a payment? 11 MR. SVEN HOMBACH: Well, as a benefit. 12 I'm speaking about benefits, not just direct payment. 13 MS. SHAWNA PACHAL: It's not a benefit. 14 15 MR. SVEN HOMBACH: Okay. And I'll get 16 into that issue as well. We may have to do that in the morning. We've already dealt with jobs so far and 17 18 there's currently an Undertaking on the record to 19 provide more of a breakdown as for the direct jobs. 20 But, Ms. Pachal, there -- the Joint 21 Keeyask Development Agreement has a target, does it not, of six hundred and thirty (630) person years for -22 23 - of employment for its partners? 24 MS. SHAWNA PACHAL: Yes. On 25 construction.

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3790 1 MR. SVEN HOMBACH: That is a target, 2 though; that is not a -- a commitment. MS. SHAWNA PACHAL: Well, I would say 3 it's a target and we've -- we're working towards it and 4 5 there's a -- we've agreed that if we didn't meet the 6 target we would provide additional monies into the 7 operational jobs training fund. And I believe, subject 8 to check, it's \$2 million. But -- so it -- it is a 9 target, but where -- there is a penalty if we don't achieve it. 10 11 MR. ED WOJCZYNSKI: I'd also like to 12 add, it's a target, but it's not like a target we say, 13 Oh, we'd like to do this. It's a target that's built 14 into the contract that we have a commitment to doing 15 and there's a penalty if we don't meet it. So it's --16 it's -- there's different kinds of targets. It's a 17 pretty strong target. It's a commitment. 18 MS. SHAWNA PACHAL: Well, and the other 19 reason, in retrospect -- you know, this came up a 20 number of times at the CEC. And in retrospect it's not 21 -- I -- I would probably call it something else, 22 because a target, kind of like it's my weight loss 23 program, when you reach a certain amount you stop, right. Whereas with this, the intention isn't to stop 24 25 at six hundred and thirty (630). The intention is

3791 that's what we want to go. We'll be thrilled if we can 1 make -- make that higher. 2 3 But we -- it was between Manitoba Hydro 4 and its partners that we thought that was a realistic 5 objective and we hope to do better. And we definitely 6 aren't stopping at six hundred and thirty (630). 7 MS. JANE KIDD-HANTSCHER: I'd -- I'd also like -- just like to add that that -- the 8 9 calculation of that person year is not the same as the two thousand (2,000) that we indicated earlier. It's -10 - it's defined in the Development Agreement because it 11 12 is a contractual obligation. 13 MR. SVEN HOMBACH: And remind me, 14 that's six hundred and thirty (630) person years out of how many anticipate for Keeyask; how many person years 15 16 total construction employment? 17 18 (BRIEF PAUSE) 19 20 MS. JANE KIDD-HANTSCHER: The target --21 or the projection of Keeyask person years is four 22 thousand, two hundred and eighteen (4,218). However, 23 that's the distinction I was just trying to make, that 24 the six hundred and thirty (630) doesn't correspond 25 perfectly to the forty-two eighteen (4,218).

3792 It's a confusing topic, because the --1 as we talked about earlier this afternoon, the person 2 year calculation is based on two thousand (2,000) 3 hours. You cut that -- you take the total number of 4 per -- hours worked divided by two thousand (2,000). 5 6 That will give you the total hours worked. That is not 7 the same calculation that is in the Development Agreement perfectly with respect to the six hundred and 8 9 thirty (630) targets. So it's very -- you need to not mix the two (2). 10 11 MR. SVEN HOMBACH: So appreciating that 12 this panel does not need to cover what was possibly covered in front of the Clean Environment Commission in 13 detail, can Manitoba Hydro provide an undertaking to 14 15 file a written explanation of that distinction at a 16 high level, in matrix format if necessary? 17 MS. JANE KIDD-HANTSCHER: Yes, we can 18 do that. 19 20 --- UNDERTAKING NO. 61: Manitoba Hydro to file 21 written explanation of 22 distinction in matrix 23 format 24 25 CONTINUED BY MR. SVEN HOMBACH:

3793 1 MR. SVEN HOMBACH: Thank you. And 2 let's go to page 106 of Board counsel's book of documents. The chart in the middle of the page, Figure 3 3-28, was filed in response to PUB/Manitoba Hydro 4 5 Information Request 2-423c. 6 That shows the estimated Aboriginal 7 construction employment for Keeyask, does it not? 8 MS. SHAWNA PACHAL: Correct. 9 MR. SVEN HOMBACH: And are the -- the six hundred and thirty (630) person years of -- of 10 target employment under the Joint Keeyask Development 11 Agreement, are those included in these numbers? 12 13 MS. SHAWNA PACHAL: Yes, they would be. 14 MR. SVEN HOMBACH: But this is an 15 overall estimate of Aboriginal workforce participation 16 on the construction of Keeyask? 17 MS. SHAWNA PACHAL: Correct. 18 19 (BRIEF PAUSE) 20 21 MR. SVEN HOMBACH: Let's deal then with 22 the issue, if we may, of partnership income. And I 23 believe it was either you, Ms. Pachal or Mr Wojczynski, 24 who discussed the -- the equity sharing and the -- the 25 partnership agreement, the arrangements for Keeyask.

3794 1 Now, there are two (2) options, are there not? The -- Manitoba Hydro's partners can either 2 have an equity stake or they can become eligible for 3 preferred dividend distributions? 4 5 MS. JANE KIDD-HANTSCHER: Yes. It's 6 either common or preferred options for investment. 7 MR. SVEN HOMBACH: And earlier today, Manitoba Hydro was on the record saying the equity 8 9 stake can be up to 25 percent, correct? 10 MS. JANE KIDD-HANTSCHER: On the common 11 option, correct. 12 MR. SVEN HOMBACH: And under the 13 preferred option, that the limit is 2.5 percent, is it 14 not? 15 MS. JANE KIDD-HANTSCHER: Correct. 16 MR. SVEN HOMBACH: Have any of the four 17 (4) partners to date exercised the common option? 18 MS. JANE KIDD-HANTSCHER: All of the 19 partners have common shares at this point. 20 MR. SVEN HOMBACH: Okay, let me take 21 you to page 81 of Board counsel's book of documents. 22 That is a chart that was filed in response to 23 CAC/Manitoba Hydro Information Request II-19a. And 24 perhaps explain what we are looking at here. 25 This is an estimate of distributions to

3795 Manitoba Hydro's partners for Keeyask, is it not? 1 MS. JANE KIDD-HANTSCHER: 2 It is an estimate for the Keeyask partners as well as a partner 3 on Wuskwatim NCN. That would be the top line. 4 5 MR. SVEN HOMBACH: So the KCN's prefer 6 distributions before repayments, that would be dealing with Keeyask. 7 8 The NCNs, that's dealing with Wuskwatim? 9 MS. JANE KIDD-HANTSCHER: Yes. And in NCNs it's the -- the share of net income, correct. So 10 if looking at the KCNs, it's the second line, preferred 11 12 distributions before repayments. 13 MR. SVEN HOMBACH: Okay. And we've got 14 three (3) different examples there. And the top one 15 deals with reference economics, reference revenue, and 16 reference capital cost. 17 Now, reference revenue, is that the ref 18 case for export prices? 19 (BRIEF PAUSE) 20 21 22 MR. ED WOJCZYNSKI: The first reference 23 is for energy prices. The second is discount rates. 24 And the third is capital cost. So all three (3) of 25 these would be reference -- reference energy prices.

3796 MR. SVEN HOMBACH: And the unit on 1 these numbers is what? Is it millions of dollars, Mr. 2 Wojczynski? 3 MR. ED WOJCZYNSKI: It must be. 4 5 MR. SVEN HOMBACH: Now, this chart 6 refers to KCN's preferred distributions. It doesn't 7 refer to common distributions. So perhaps you can clarify how Manitoba Hydro's answer, that everybody has 8 9 equity -- has an equity stake, corresponds to this 10 chart which indicates that there will be preferred 11 distributions? 12 13 (BRIEF PAUSE) 14 15 MR. ED WOJCZYNSKI: Yeah, the -- when 16 the -- the IFF made the assumption that at final closing the First Nations would choose the preferred 17 18 option, not the common options, they -- they don't have 19 to do a final landing on the common or preferred at this time. Their choice would come later. 20 21 MR. SVEN HOMBACH: Again, just to clear 22 up the confusion, has anybody made the choice to date, 23 or is -- are you still assuming? 24 MR. ED WOJCZYNSKI: No one has made a 25 choice because they don't need to make a choice for

3797 many years. 1 2 Okav. So -- so MR. SVEN HOMBACH: assuming that the choice will be made to stick with 3 preferred distributions, what this is showing is that 4 5 under a ref/ref/ref scenario those distributions would 6 be in the vicinity of \$5 million per year to the 7 partner starting in 2022? MS. JANE KIDD-HANTSCHER: That's 8 9 correct. 10 MR. SVEN HOMBACH: And if discount 11 rates are higher, that increases to 7 million per year? 12 13 (BRIEF PAUSE) 14 15 MR. SVEN HOMBACH: Or is the middle 16 chart the scenario with higher export prices? 17 MR. ED WOJCZYNSKI: I -- I think you're 18 -- rather than discount rate, I think we're talking 19 about interest rate. When we do re -- when we do the economics, we use discount rate for the economic 20 21 indicator; but when they do the financial analysis, they break it down into the things like interest rate 22 23 and inflation and exchange rate -- things -- those kind 24 of things. 25 But -- so it's really -- in this one,

they would have been doing by interest rate, not 1 discount rate. 2 3 MR. SVEN HOMBACH: So the middle table that we're looking at is a high interest rate scenario 4 5 or a high export price scenario, Mr. Wojczynski? 6 MR. ED WOJCZYNSKI: Well, it must be --7 you know, they must have used a different nomenclature. I suspect this is high export price even though 8 9 normally if you go to the way the economics is indicated, the order of the ref/ref is lower. 10 11 It must be -- this must be export 12 prices, not interest rates. It's the only thing that 13 makes sense. 14 MR. SVEN HOMBACH: Perhaps Manitoba 15 Hydro can undertake to clarify that a little more. 16 MR. ED WOJCZYNSKI: Let -- let us 17 assume that these are energy prices for the second ref 18 -- oh, it actually says, "revenue." Yeah, it says, 19 "revenue." If I had read more carefully, I would have 20 seen it right away. My apologies. 21 So it is definitely the export revenue 22 that's high. 23 MR. SVEN HOMBACH: Okay. And the 24 bottom scenario deals with low export prices then? 25 MR. ED WOJCZYNSKI: Yes.

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3799 MR. SVEN HOMBACH: And under that 1 scenario, the partners would get about \$3 million per 2 3 year. MR. ED WOJCZYNSKI: Yes. 4 5 6 (BRIEF PAUSE) 7 MR. SVEN HOMBACH: When will the 8 9 partners have to make the choice as to whether or not they go with the preferred distribution route or the 10 11 common equity route? 12 MR. ED WOJCZYNSKI: Final closing, which is at the end of construction. 13 14 MR. SVEN HOMBACH: So 2018, in other 15 words? 16 MR. ED WOJCZYNSKI: Sorry, I thought I had it on; 2018 is when construction starts. Actually, 17 18 2026. Oh, sorry, I got my projects mixed up. It's 19 been a long day. This is Keeyask we're talking about. 20 21 (BRIEF PAUSE) 22 23 MR. ED WOJCZYNSKI: So, just to be 24 clear, we're talking about Keeyask. Construction 25 starts 2014 and the final closing would be at the in-

3800 service date of 2019. And that's when they would have 1 to make their decision on preferred versus common. 2 3 4 (BRIEF PAUSE) 5 6 MR. SVEN HOMBACH: Is Manitoba Hydro in a position to provide a similar table where we have an 7 undertaking to indicate what the distributions would be 8 9 under common equity scenario? 10 We might be treading into CSI here, I appreciate that. 11 12 MR. ED WOJCZYNSKI: We'll have to take that under advisement. 13 14 MR. SVEN HOMBACH: Would you be in a 15 position tomorrow to advise whether that's an 16 undertaking you can fulfill? 17 MR. ED WOJCZYNSKI: We will advise 18 tomorrow morning. 19 MR. SVEN HOMBACH: And what -- what I 20 likely would seek, Mr. Wojczynski, is a situation that 21 shows different percentages of equity stake, up to the 22 maximum of 25 percent. 23 MR. ED WOJCZYNSKI: That is part of 24 what we'll take under advisement. 25 MR. SVEN HOMBACH: Mr. Chairman, it's a

3801 quarter to 6:00. I'm prepared to keep going for 1 fifteen (15) minutes if you'd like me to, or if you'd 2 like to break, now would be an opportune time -- time 3 to do so as well. 4 5 THE CHAIRPERSON: Let's keep going, 6 please. 7 8 CONTINUED BY MR. SVEN HOMBACH: 9 MR. SVEN HOMBACH: Now, the second 10 benefit that we discussed was the directly negotiated 11 contracts. 12 And in the NFAT filing, Manitoba Hydro 13 indicated that there would be a value of approximately 14 200 million to those, correct? 15 MS. SHAWNA PACHAL: That's correct. 16 MR. SVEN HOMBACH: And since that time, Manitoba Hydro has been on the record with a new 17 18 number, which I believe was 390 million. 19 Is that correct? 20 MS. SHAWNA PACHAL: Just let me check 21 my notes. I have something on that. 22 23 (BRIEF PAUSE) 24 25 MR. SVEN HOMBACH: Ms. Pachal, if it

3802 helps you, I can refer you to page 94 of Board 1 counsel's book of documents which is a transcript 2 excerpt of Mr. Bowen's testimony. Bottom of the page, 3 line 23/24. 4 5 6 (BRIEF PAUSE) 7 8 MR. ED WOJCZYNSKI: The three ninety 9 (390) are committed purchase orders for the direct 10 negotiated contracts. 11 12 (BRIEF PAUSE) 13 14 MR. SVEN HOMBACH: So sorry, that 15 number has already been crystalized? These are 16 contracts that are in place? 17 MR. ED WOJCZYNSKI: They -- they've 18 been... 19 20 (BRIEF PAUSE) 21 22 MR. ED WOJCZYNSKI: This might be 23 something that would be better that we do a double 24 check and get back to you on. 25 MR. SVEN HOMBACH: Certainly. What I

3803 would suggest, Mr. Wojczynski, is I have a few more 1 2 questions... 3 4 (BRIEF PAUSE) 5 6 MS. SHAWNA PACHAL: I'm trying to 7 clarify the distinction between the 203 million and the three hundred and ninety (390). So the 203 million in 8 9 the Joint Keeyask Development Agreement is a minimum aggregated value. So it wasn't really an estimate. At 10 11 the time it was a roughly aggregated value of -- of the 12 con -- of the contracts when we initially started 13 talking about business opportunities with our partners. 14 So at that time our construction people 15 didn't have a tonne of information about the project 16 and the details of the project at that time. So using 17 that 203 million as an estimate and comparing against 18 the 390, it doesn't -- you're not really comparing 19 apples and oranges. So we had rough, sort of ballpark 20 numbers to help our partners decide. 21 So, for example, we said, Well, we'll 22 have catering contracts, or we'll have road contracts, 23 and -- and so on. And we had to give people a sense of 24 what would be the values of those contracts. And then 25 our partners went away and amongst them decided who

3804 would want which contracts and so that it would be 1 divided up based the proportion -- their proportions of 2 the project. And they worked it out. 3 And so when we agreed to those and what 4 5 those contracts were, the best information at the time, 6 which was this aggregate value, was 203 million. But to say it was an estimate, we -- we always knew it was 7 sort of a ballpark and -- to give people sort of a 8 9 quantum, like -- is the road -- so they could divide up the contracts, is the road worth five (5) times what 10 11 the catering is worth, so it could be equitable when 12 they were dividing it up. 13 So trying to compare them is like comparing apples and oranges. 14 15 MR. SVEN HOMBACH: So the new number then is the 390 million? 16 17 MS. SHAWNA PACHAL: That is correct. 18 MR. SVEN HOMBACH: Okay. And let me 19 take you to page 93 of Board counsel's document, Ms. 20 Pachal. That is a table that Manitoba Hydro filed in 21 response to a PUB/Manitoba Hydro Information Request II-499b. And it's a list off the DNC contracts.

Is that list still currently accurate?

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(BRIEF PAUSE)

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3805 MS. SHAWNA PACHAL: I think the list of 1 the contracts, what they are and the allocation to the 2 KCN, remains mostly accurate. There's been some 3 adjustments. I think this is filed in December. And 4 then the ones that -- the ones that have -- the 5 6 contracts that have or haven't been negotiated, the --7 the last five (5) that are showing not having been negotiated yet, I would have to check with my 8 9 construction colleagues to see where they're at on the negotiates on that since December. I don't know if 10 11 those have all been negotiated yet. As of December 12 2013, when they filed the answer, those five (5) 13 weren't negotiated yet. 14 MR. SVEN HOMBACH: Are there any other 15 contracts that should be added to this list? 16 MS. SHAWNA PACHAL: I believe this is the list directly out of the Schedule 13.1 of the Joint 17 18 Keeyask Development Agreement. I believe there have 19 been some adjustments and changes, so I -- I will 20 undertake to get an updated list on -- of this -- of this table for you tomorrow morning. 21 22 MR. SVEN HOMBACH: And -- and, Ms. 23 Pachal, what I actually would also like is part of that 24 undertaking is a breakdown as to the value attributed 25 to each of the contracts. Presumably, the total of

3806 these contracts would add up to the 390 million. 1 2 I'd like to see how much money is allocated to each of them. 3 MS. SHAWNA PACHAL: I'll have to check 4 5 to see if that's public information at this point, but 6 let me -- let me do my best on that. 7 MR. SVEN HOMBACH: And if it is not, if it has be filed as CSI, perhaps a redacted revision can 8 9 be filed on the public record and the actual numbers can be provided by way of a CSI undertaking? 10 11 MS. SHAWNA PACHAL: Sure. 12 MR. SVEN HOMBACH: Yes. Ms. Pachal? 13 MS. SHAWNA PACHAL: I am undertaking to 14 update the answer the to CAC/MH II-231a, page 23, the 15 table from the Joint Keeyask Development Agreement 16 Schedule 13.1 -- oh, sorry, I -- it's actually PUB/MH 17 II-499b. And I'm undertaking to update the DNC table, 18 which is an update of Schedule 13.1 from the Joint 19 Keeyask Development Agreement, and if possible, provide the -- the values for those that add up to 390 million. 20 21 22 --- UNDERTAKING NO. 62: Manitoba Hydro to update 23 the DNC table and, if 24 possible, provide the 25 values for those that add

3807 1 up to 390 million 2 CONTINUED BY MR. SVEN HOMBACH: 3 4 MR. SVEN HOMBACH: Now, Ms. Pachal, for 5 a company to be eligible on those contracts, does it 6 have to be a Northern Aboriginal contractor? MS. SHAWNA PACHAL: 7 The direct negotiated contracts are all allocated to our First 8 9 Nation partners. 10 MR. SVEN HOMBACH: And -- and just to 11 clarify what that means, does that mean the contracts 12 are with the First Nations directly, or with private 13 contractors that are owned or controlled or managed by 14 members of those First Nation partners? 15 MS. SHAWNA PACHAL: I think I explained 16 before, it could be the First Nation itself, or it oftentimes -- I think in most cases, the First Nations 17 18 have partnered with a company that is a qualified and 19 expert in that area. And then they form a joint 20 venture, 50/50 ownership. 21 And we have some qualification pieces 22 that are agreed to with our partners that must be met 23 to ensure it's not just a flowthrough, where the First 24 Nation is just collecting money on the contract. It 25 has to be a genuine joint venture so that there's

1 capacity building and employment ass -- associated with 2 the contract.

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3 MR. SVEN HOMBACH: Is the other point that follows from that there is -- that there's some 4 5 type of restriction on subcontracting to companies that 6 wouldn't meet the definitions that have to be met to be eligible for these directly negotiated contracts? 7 8 MS. SHAWNA PACHAL: Well, it's my 9 understanding that these contracts are with the First Nations or the joint ventures. And there's a -- an 10 entire qualification process that these companies go 11 12 through in order for Manitoba Hydro to award the 13 contract the -- those individual or partner First 14 Nations. 15 MR. SVEN HOMBACH: Let's turn to page 91 of Board counsel's book of documents for a moment. 16 17 That is a response to an undertaking filed by the 18 Manitoba Metis Federation. It's MMF/Manitoba Hydro II-19 37b. And it indicates that Manitoba Hydro asks vendors to self-declare as Northern Aboriginal contractors. 20 21 And what I gather from your response, 22 Ms. Pachal, is that applies to contracts outside the 23 directly negotiated contracts group that we just 24 discussed, right? This is for openly tendered 25 contracts?

3809 1 MS. SHAWNA PACHAL: Well, under the Northern purchasing policy there may, in fact, be 2 instances where we do, do direct negotiated contracts. 3 So I'm not quite sure I'm following you. 4 5 MR. SVEN HOMBACH: What I'm getting at, 6 Ms. Pachal, is aside from the 390 million indirectly 7 negotiated contracts, are there any other contract guarantees, or is there any other type of preferential 8 9 treatment awarded to Northern Aboriginal contractors, 10 either through directly negotiated contracts or through 11 preferential bidding? 12 13 (BRIEF PAUSE) 14 15 MS. SHAWNA PACHAL: So there is a 16 opportunities for our partners to participate in additional subcontracts, or supplemental contracts, 17 18 over and above the -- the ones that we've identified. 19 There's also opportunities with the general civil 20 contract, in terms of subcontracts, for the Aboriginal 21 businesses, or Northern Aboriginal businesses, to take 22 advantage of those opportunities. 23 I don't believe any of those are done as 24 directly negotiated contracts. They'd be done as open 25 tenders. And just let me check on one (1) thing.

3810 1 (BRIEF PAUSE) 2 3 MS. SHAWNA PACHAL: So we're making efforts to encourage -- set up meetings between the 4 5 general civil contractor and our partners so that our 6 part -- the general civil contractor can be made more 7 aware of the capacity of our partners and the potential business capacity that they have. So that -- and we 8 9 also have a corporate commitment to increasing the participation of Manitoba Northern and Northern 10 11 Aboriginal residents or companies. 12 And so we make that -- in terms of with 13 our general civil contractor we've made them aware that that's one (1) of our objectives. 14 15 MR. SVEN HOMBACH: So there's no 16 preferential treatment or guarantee of contracts, per 17 se, but you are facilitating, for lack of a better 18 word? 19 MS. SHAWNA PACHAL: That's correct. 20 MR. SVEN HOMBACH: Mr. Chairman, I note 21 it is six o'clock. I am moving onto another topic, so 22 if this is an opportune time to adjourn? 23 THE CHAIRPERSON: It is an opportune 24 time to adjourn. So I want to thank everyone who 25 contributed today. I'm guessing there are no other

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   administrative matters to attend to? I'm looking to
 1
 2 the Intervenors. If there's any -- no hands are up.
                  Mr. Hombach, have you got anything else
 3
 4
  that you...
 5
                  MR. SVEN HOMBACH: Nothing at this
 6
  time, Mr. Chairman.
 7
                  THE CHAIRPERSON: Thank you very much,
  everyone, for your contributions today. Have a good
 8
  evening. We'll see you tomorrow morning at nine
 9
10 o'clock sharp. Thank you.
11
12
                         (PANEL RETIRES)
13
14 --- Upon adjourning at 6:01 p.m.
15
16
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18 Certified Correct,
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21
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23 Cheryl Lavigne, Ms.
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