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 27, 2014 Pages 4094 to 4342

Re:

PUB re NFAT 03-27-2014

4095 APPEARANCES 1 2 Bob Peters (np))Board Counsel 3 Sven Hombach 4 5 Patti Ramage)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 (np)) 24 25

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--- Upon commencing at 9:14 a.m. 1 2 3 MR. SVEN HOMBACH: Okay, the system is 4 back up, so we're ready to resume at any time. 5 THE CHAIRPERSON: Mr. Williams, 6 please. 7 MR. BYRON WILLIAMS: Yes, and good morning, members of the Public Utilities Board panel 8 9 and the Hydro panel, as well as the representatives from the Cree Nation Partners, York Factory, and Fox 10 Lake. Mr. Chair, just I -- I think I'm able to 11 12 provide to the panel an update, in terms of time 13 estimates by Intervenor counsels as well as counsel 14 for the IEC. 15 I believe Mr. Orle has advised that it will be -- his will be about fifteen (15) minutes 16 because much of his work has been canvassed by Ms. --17 18 by -- by some of the people who've gone ahead of him. 19 I -- I believe Mr. Gange will be substantially less than one (1) hour. And I -- I think the last 20 information we had from M. Monnin was that it would 21 22 certainly less than half an hour. 23 I'm more reluctant to give an estimate 24 of mine, but -- but I certainly expect I will go to 25 the break. And I would -- I would think that I would

4101 be more likely to go to somewhere between 11:00 and 1 11:30, in that range. There's been a couple new 2 things come up this morning that -- that may take a 3 bit longer, if that's satisfactory to the panel. 4 5 THE CHAIRPERSON: Given the relative 6 minimal amount of time being used by the other Intervenors here, feel free to take as much time as 7 you need, Mr. Williams. 8 9 10 MANITOBA HYDRO PANEL 6 CONTINUED: 11 KAREN ANDERSON, Previously Sworn 12 TED BLAND, Previously Sworn 13 NORMAN BRANDSON, Previously Sworn 14 JANE KIDD-HANTSCHER, Previously Affirmed 15 SHAWNA PACHAL, Previously Affirmed 16 IAN PAGE, Previously Sworn 17 MARV SHAFFER, Previously Sworn 18 VICTOR SPENCE, Previously Sworn 19 ED WOJCZYNSKI, Previously Sworn 20 BILL HAMLIN, Previously Sworn 21 22 CONTINUED CROSS-EXAMINATION BY MR. BYRON WILLIAMS: 23 MR. BYRON WILLIAMS: And just a heads 24 up. Mr. Wojczynski, later -- later on, Mr. 25 Wojczynski, in our discussion I'm going to be

4102 referring you to a transcript from the technical 1 conference, page 353. That won't be for at least an 2 hour though. So if you want to have your page 353. 3 4 5 (BRIEF PAUSE) 6 MR. BYRON WILLIAMS: If we could start 7 8 though. If we could turn to the undertaking that was 9 provided this morning, Mr. Wojczynski, the 104-8, page 3 of 7. If you would turn there, sir. 10 11 12 (BRIEF PAUSE) 13 14 MR. BYRON WILLIAMS: And, Mr. Wojczynski, just I'm going to try and break this into 15 16 small pieces. But in terms of what you've done with this undertaking, it -- it contains, of course, the 17 18 updated capital cost for Keeyask and Conawapa, 19 correct? 20 MR. ED WOJCZYNSKI: Yes. 21 MR. BYRON WILLIAMS: It contains the 22 updated probability weightings associated with the 23 capital cost factors, agreed? 24 MR. ED WOJCZYNSKI: Yes. 25 MR. BYRON WILLIAMS: And it contains

the updated treatment of common factors? 1 2 MR. ED WOJCZYNSKI: Yes. 3 MR. BYRON WILLIAMS: And this isn't meant as a critical way, but for clarification 4 purposes, would this be premised on the Power Smart 5 6 2012, Mr. Wojczynski, or Power Smart 2013? 7 MR. ED WOJCZYNSKI: It -- the Power Smart '12 and Power Smart '13 were not much different, 8 9 but it was based on Power Smart '12. It -- it does 10 not have the updated DSM. 11 MR. BYRON WILLIAMS: Okay. So -- and 12 -- and just so -- just to be clear here then, this is 13 based on the 2012 base assumptions? 14 MR. ED WOJCZYNSKI: Yes, except it has 15 2012 base assumptions such as in the IFF, except it 16 has 10 percent lower export prices, which ultimately in 2013 were increased. 17 18 MR. BYRON WILLIAMS: Okay. And that's 19 helpful, sir. What is missing from here, not in --20 again in a derogatory way, we won't have an insight 21 into the effect of a DSM Scenario 2, for example, on 22 the relative plans, agreed? 23 MR. ED WOJCZYNSKI: We -- we don't 24 have a DSM 2 that would replace this quilt. We do 25 have the reference values for DSM 2 with all the other

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4104 assumptions. And when you combine the information 1 provided in this quilt with the information on the ref 2 -- ref/ref/ref for the -- the updated DSM 2 and 3, and 3 1, and pipeline load, then you can -- together you 4 5 have a good body of information. 6 MR. BYRON WILLIAMS: Yes. And, sir, 7 I'm not -- I'm just trying to make sure that when we look at this -- these particular results, they're 8 9 based on the 2012 Power Smart and do not reflect the implications of the various DSM scenarios that you've 10 11 examined, at least on a ref/ref/ref basis, elsewhere. 12 Would that be fair? 13 MR. ED WOJCZYNSKI: Yes. 14 MR. BYRON WILLIAMS: And I'd like to 15 refer you, if I could, sir, to -- to the bottom of 16 this -- this table. Keep scrolling down, please. 17 Thank you. 18 And, Mr. Wojczynski, for organizational 19 purposes I'm going to be comparing various plans 20 against Plant 14. And so just as a starting point, if we could, let's take Plan 6, which is K19/Gas31 and 21 22 750 megawatts. 23 Is my understanding of that plan 24 correct, sir? 25 MR. ED WOJCZYNSKI: Yeah.

4105 MR. BYRON WILLIAMS: And am I correct 1 in suggesting that that does not contain the WPS sale, 2 sir? 3 MR. ED WOJCZYNSKI: Correct. 4 5 MR. BYRON WILLIAMS: So let's take the 6 -- first of all, the expected value of -- of this Plan 6 of three eighty-six (386). 7 8 And I could compare that then, sir, to 9 the one twenty (120) for the Preferred Plan? 10 MR. ED WOJCZYNSKI: Yes. 11 MR. BYRON WILLIAMS: Okay. Similarly, 12 sir, if I took the ref/ref/ref for Plan 6 as compared 13 to Plan 14, I'd see there that the NPV is relatively 14 similar, being six hundred and sixty-two (662) for the 15 Plan 6, somewhat larger but generally in the same 16 range as for Plan 14, of 614 million. 17 Would that be fair? 18 MR. ED WOJCZYNSKI: That's correct. 19 And that's the trend you'd expect to see. 20 MR. BYRON WILLIAMS: Okay. And again, 21 the -- the expected value for Plan 6 of 386 million 22 would be superior to the expected value for Plan 14? 23 MR. ED WOJCZYNSKI: Yes. And I -- I 24 think it's also important to look at the -- at the 25 upsides and the downsides, the risks and the -- and

4106 the upside potentials. 1 2 MR. BYRON WILLIAMS: And fair enough, sir. And would it be fair to say in terms of the 3 downside risk that the downside risk for Plan 14 would 4 5 be approximately three (3) times as much --6 MR. ED WOJCZYNSKI: Yes, that's 7 correct. 8 MR. BYRON WILLIAMS: -- as the downside risk --9 10 MR. ED WOJCZYNSKI: Yeah. 11 MR. BYRON WILLIAMS: -- for Plan 6? 12 MR. ED WOJCZYNSKI: Which is what 13 brings down the expected value. 14 MR. BYRON WILLIAMS: And on the upside 15 it's roughly twice as much, Plan 14 --16 MR. ED WOJCZYNSKI: Yes. 17 MR. BYRON WILLIAMS: -- versus Plan 6? 18 Now, a plan that has attracted my client's attention 19 of late, Mr. Wojczynski, is Plan 8. And Plan 8, sir, has gas and then it has Conawapa coming in, in 2026. 20 21 Is that correct, sir? 22 MR. ED WOJCZYNSKI: Yes. 23 MR. BYRON WILLIAMS: And the expected 24 value for Plan 8 is \$143 million. 25 Is that right, sir?

4107 MR. ED WOJCZYNSKI: Yes. 1 2 MR. BYRON WILLIAMS: So it's relatively competitive at that level with the expected 3 value of Plan 14, agreed? 4 5 MR. ED WOJCZYNSKI: Yes. 6 MR. BYRON WILLIAMS: The ref/ref/ref 7 for Plan 8 is 403 million, as compared to the 8 ref/ref/ref for plan -- the Preferred Plan of 614 million. 9 10 Am I correct, sir? 11 MR. ED WOJCZYNSKI: Yes. 12 MR. BYRON WILLIAMS: Let's just move 13 up to the 10th percentile risk for Plan 8. 14 Would I be correct in suggesting to you 15 that it is half as much as Plan 14, sir? 16 MR. ED WOJCZYNSKI: Yes. 17 MR. BYRON WILLIAMS: And on the --18 that relationship holds as well for -- well, the 19 opposite for the upside potential with the -- the 90th percentile result for Plan 14, being roughly twice as 20 much as for Plan 8? 21 22 MR. ED WOJCZYNSKI: Yes. 23 MR. BYRON WILLIAMS: Sir, let's turn, 24 if we could, to Plan 12 and compare it to Plan 14. And Plan 12, you'll agree, is 25

4108 K19/Conawapa31 and a -- a 750 megawatt 1 2 interconnection, sir? 3 MR. ED WOJCZYNSKI: Yes. 4 MR. BYRON WILLIAMS: And again, that 5 would be without the Wisconsin Public Service sale, 6 sir? 7 MR. ED WOJCZYNSKI: Yes. 8 MR. BYRON WILLIAMS: And the expected 9 value for Plan 12 at 115 million would be fairly comparable to the expected value of Plan 14 of 120 10 11 million. 12 Would that be fair, sir? 13 MR. ED WOJCZYNSKI: Yes. 14 MR. BYRON WILLIAMS: And in terms of 15 the ref/ref/ref NPV for Plan 12 at 536 million, it would be somewhat lower than the Preferred Plan at 16 17 614. 18 Would that be fair? 19 MR. ED WOJCZYNSKI: Yes. 20 MR. BYRON WILLIAMS: And then we get 21 to the Plan 5, sir. That is Keeyask in 19 -- or 2019, gas in 2025, and 750 megawatt interconnection. 22 23 Is that correct, sir? 24 MR. ED WOJCZYNSKI: Yes. 25 MR. BYRON WILLIAMS: And it does

4109 include the Wis -- Wisconsin Public Service sale. 1 2 Would that be correct? 3 MR. ED WOJCZYNSKI: Yes. MR. BYRON WILLIAMS: And if I look at 4 5 that, I see the expected value of Plan 5 is a fair bit 6 higher at 268 million than the expected value of Plan 14 of 120 million? 7 8 MR. ED WOJCZYNSKI: Yes. 9 MR. BYRON WILLIAMS: On the other hand, when I look at the ref/ref/ref NPV, Plan 5 comes 10 in at 584 million, as compared to the results for Plan 11 12 14, again, of 614 million? MR. ED WOJCZYNSKI: 13 Yes. 14 MR. BYRON WILLIAMS: Just a last 15 thing, sir, if I were to compare Plan 6 and Plan 5, 16 the -- the differences between Plan -- Plan 6 and 5, one is that Plan 6 has no Wisconsin Public Service 17 18 sale. 19 Is that correct, sir? 20 MR. ED WOJCZYNSKI: Yes. 21 MR. BYRON WILLIAMS: And the other difference would be a timing difference, in terms of 22 23 the timing for -- for gas. 24 Would that be fair? 25 MR. ED WOJCZYNSKI: Yes, the two (2)

4110 are inextricably linked. Because we don't have the 1 WPS sale in Plan 6, you don't have the need for the 2 gas as early, so you can defer it, yes. 3 4 MR. BYRON WILLIAMS: And what we see 5 there, if we compare these plans, sir, is that the 6 expected value for Plan 6 of 386 million is superior to the expected value for Plan 5. 7 Would that be fair? 8 9 MR. ED WOJCZYNSKI: Yes. 10 MR. BYRON WILLIAMS: And if we look at 11 the ref/ref/ref for Plan 6 of 662 million, again, it is superior to the ref/ref/ref value for Plan 5. 12 Would that be fair? 13 14 MR. ED WOJCZYNSKI: Yes. 15 MR. BYRON WILLIAMS: And, sir, just a 16 last point, recognizing the position of Manitoba Hydro is that Plan 4, in terms of its current results, is no 17 18 longer viable, we see in terms of the expected value, 19 Plan 4 would have the highest expected values of any 20 of the -- the plans presented, sir? 21 MR. ED WOJCZYNSKI: Yes, it does. And 22 that's why I said the other day from Manitoba Hydro's 23 point of view we would have -- well, I'm going to use 24 the word 'preferred' here -- we would have preferred 25 that Plan 4 and the 250 megawatt interconnection as

4111 we've envisaged here, was available -- still available 1 as an option because it -- it -- if you have a -- it 2 would be good to have that in the remaining portfolio 3 of feasible options, because it does have some 4 attractive qualities. But as we've indicated, it is 5 6 not a feasible option. 7 MR. BYRON WILLIAMS: And -- and, again, sir, in terms of the -- taking your point again 8 9 for the ref/ref/ref values, again Plan 4 in its 10 current incarnation dominates the other plans, agreed? 11 MR. ED WOJCZYNSKI: It is much larger 12 than the other plans. 'Dominate' is a word you use 13 when you're comparing the S-curves or the range rather 14 than just a single value, so. 15 MR. BYRON WILLIAMS: Fair enough, sir. The -- now, finally, before we leave Plan 6, if memory 16 serves me right, sir, if I was incorporating DSM 17 18 scenario or Level 2, we would put -- be putting the 19 need date for gas out to 2040. 20 Is that right, sir? 21 MR. ED WOJCZYNSKI: That's correct. 22 And also, if you're talking about the DSM Level 2, you 23 would see that the economics of Plan 5 versus Plan 6 are modified, and actually Plan 5 ends up being more 24 25 attractive than Plan 6. Not by a large amount, but

unlike what you see in here, where Plan 6 was less 1 attractive by, call it, 90 million or 70 mi -- no, 2 more like 70 million... 3 In this quilt right now, on 4 Pardon me. 5 the expect -- the in the reference you had Plan 6 6 looking better than Plan 5 by close to 200 million. 7 You now actually see that Plan -- that it's reversed and Plan 5 is slightly better than Plan 6 with DSM 2. 8 9 MR. BYRON WILLIAMS: And we'll come to 10 that from your other slide, sir. 11 But that'll be about a \$30 million 12 difference? 13 MR. ED WOJCZYNSKI: Yes. The 14 important thing is you don't have any more -- the --15 the big factor in favour of Plan 6. But we -- we --16 but our plan -- the Preferred Plan would be -- involve keeping all of those plans, 5 and 6 and 12 and 14, 17 18 available as options down the road. 19 The other thing I need to add, and as 20 Ms. Flynn has indicated previously, when we're 21 comparing these upsides on the rew -- what we call 22 reward or the upside benefit, or if we're looking at 23 the expected value what these do not include is that 24 we have these opportunities that Mr. Cormie has talked 25 about extensively, and that's the SaskPower sale;

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there's the GRE and the NSP extension. 1 And as Mr. Cormie has indicated and Ms. 2 Flynn has indicated, if we ha -- if we do proceed with 3 those down the road, one (1) or two (2) or three (3)4 5 or more, because there are some other players we're 6 talking to, we would expect we would see the bi -- a 7 bigger upside than what we're seeing in this chart. 8 This chart presents the upsides using 9 the scenarios with the forecast. They do not include an -- a provision -- a specific provision for those 10 major export contracts that are under negotiation. 11 12 Those -- those would provide a greater benefit than 13 shown in these expected values or upsides. 14 15 (BRIEF PAUSE) 16 17 MR. BYRON WILLIAMS: Mr. Wojczynski, 18 if you can keep your hand on a paper copy of this 19 exhibit, and -- and then if we could just pull up just 20 for a second, for comparative purposes, Manitoba Hydro 21 Exhibit 95, page 123. MR. ED WOJCZYNSKI: Yes. 22 23 MR. BYRON WILLIAMS: And, sir, at the 24 bottom of page 123 we see the results for the 25 Preferred Development Plan. It's in comparison in

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4114 terms of incremental NPV over the All Gas Plan 1 presented at -- towards the bottom of that page. 2 3 Do you see that reference, sir? MR. ED WOJCZYNSKI: 4 Yes. 5 MR. BYRON WILLIAMS: And --6 MR. ED WOJCZYNSKI: Mr. By -- Mr. 7 Williams, you've been successful in this hearing getting the most yeses in the -- in half an hour of 8 9 anybody. Congratulations. 10 MR. BYRON WILLIAMS: That will change 11 quite soon, sir. But just I -- I want to understand, 12 for comparative purposes, sir, as we work our way 13 through this, when I look at the results here for Plan 14 14 compared to All Gas, this is based upon the 2013 15 results, sir, and it excludes the WPS investment but 16 it does include the 2014 costs for Keeyask and 17 Conawapa. 18 Am I right, sir? 19 MR. ED WOJCZYNSKI: Yes, you're --20 yes. 21 MR. BYRON WILLIAMS: Oh, okay. Maybe 22 we'll have a couple more yeses, and then we'll get to 23 it. And the discount rate employed was 5.4 percent, 24 sir, in this analysis? 25 MR. ED WOJCZYNSKI: For the last

comparison at the bottom, yes. 1 2 MR. BYRON WILLIAMS: Okay. And -- and so we see the NPV of 374 million for the Preferred 3 Plan using 2013 assumptions, excluding the WPS 4 5 investment but included -- including the updated 6 capital cost --7 MR. ED WOJCZYNSKI: Yes. 8 MR. BYRON WILLIAMS: -- of Keeyask and 9 Conawapa, agreed? 10 MR. ED WOJCZYNSKI: Yes. 11 MR. BYRON WILLIAMS: And that's the 12 three hundred and seventy-four (374) figure? 13 MR. ED WOJCZYNSKI: Yes. 14 MR. BYRON WILLIAMS: And, sir, just if 15 I -- if I go back to the Plan 14 as presented on page 16 3 of 7 of Manitoba Hydro Exhibit 104-8, I see a ref/ref/ref NPV of \$614 million for this plan, sir, 17 18 under these assumptions, right? 19 MR. ED WOJCZYNSKI: Yes. 20 MR. BYRON WILLIAMS: And so one 21 difference in the assumption, sir, presumably would be 22 what we see in Exhibit 104-8 before us is based upon 23 the 2012 base assumptions? 24 MR. ED WOJCZYNSKI: Yes. 25 MR. BYRON WILLIAMS: And -- and those

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4116 would differ from the 2013 base assumptions, I'll 1 suggest to you, in two (2) or three (3) ways. 2 3 One would be the discount rate employed? 4 5 MR. ED WOJCZYNSKI: Yes. 6 MR. BYRON WILLIAMS: Would -- secondly would -- would be the expectation in terms of natural 7 gas -- or export prices, agreed? 8 9 MR. ED WOJCZYNSKI: They're higher in 10 the '13 than this '12 here, yes. 11 MR. BYRON WILLIAMS: And so, sir, 12 essentially, can -- when we look at the figure of six 13 hundred and fourteen (614) as an NPV based upon the 2012 assumptions and 374 million based upon the 2013 14 15 assumptions, are those apples-to-apples comparisons, 16 sir, in all other factors other than -- than one is 17 using the 2012 base and one is using the 2013 base? 18 MR. ED WOJCZYNSKI: I -- I think to a 19 great degree you can say that it's like comparing 20 Granny Smiths to Galas. There's a lot -- they're very 21 similar but not -- not fully, but close enough. 22 MR. BYRON WILLIAMS: Okay. And so 23 when you pointed out to me quite properly that within 24 the 2012 base case there were higher export revenues 25 than in the -- the 2013 base case, a countervailing

4117 effect to that would be the -- the higher discount 1 rate employed in the 2013 analysis, agreed? 2 3 MR. ED WOJCZYNSKI: What you're trying 4 to say is the right thing, you -- you just got it 5 flipped. The 2013 was higher than the 2012. And --6 MR. BYRON WILLIAMS: In terms of discount rates? 7 8 MR. ED WOJCZYNSKI: No, no, no, you --9 MR. BYRON WILLIAMS: Export prices, 10 yes. 11 MR. ED WOJCZYNSKI: Yes. You -- you 12 had got that backwards. But, yes, the -- the fact 13 that the 2013 export price was higher than the 2012 export price was more than offset by the fact there 14 15 was a higher discount rate. There were some other 16 second-order changes which also caused a reduction in 17 that that Ms. Flynn explained at an earlier date. 18 But I think probably for this 19 conversation that's -- that's -- enough said. 20 MR. BYRON WILLIAMS: Yes, and probably 21 enough yeses, as well, Mr. Wojczynski. I thank you. It's hard work, but it's very helpful to our -- our 22 23 team, and I appreciate it. 24 Moving to a total --25 MR. RICHARD BEL: Could I ask one (1)

simple question. It's counterintuitive that Plan 6 1 and Plan 5, one (1) with the WPS sale has got a lower 2 expected value. 3 Is there -- how did that happen? 4 5 MR. ED WOJCZYNSKI: So if you go to 6 the quilt, and we're on it right now actually, and if 7 you just give me a moment -- well, if we could -actually, if you could go down a little bit to the --8 9 get the -- the summary table at the bottom. 10 If you compare 5 and 6, 6 has an upside 11 of -- the downside, the 10th percentile risks are 12 similar; they're only \$100 million different. And if 13 you go to the upside, in this one your upside is higher by 300 million. And if you go to the 75th 14 15 percentile, it's higher by 200. And what you're 16 getting is that when you don't -- when -- when you 17 have a -- a firm sale, WPS in this case, you do two 18 (2) things -- well, three (3) things, compared to the 19 forecast. 20 The first is under ref/ref/ref you --21 you have the actual contract price compared to the 22 forecast price. And that will cause some change 23 there, depending if it's higher or lower. And we, of 24 course, prefer that our actual contract prices are 25 higher than the forecast.

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1 The second is that when you have the downside risk, what the export contract does is give 2 you a floor, because you've nailed that down. And if 3 export prices go down, you're protected, because 4 5 you're -- at least for that energy you're selling you 6 know your price, whereas if you leave it wide open under Plan 6, you don't have that -- that energy being 7 sold firmed up in price. 8 9 So when -- but if -- so if you -- if 10 that world evolves and you do get low export prices, you're exposed to those low export prices. If you 11 12 have a contract, you're protected. Your downside is 13 protected. But the converse of that is if export 14 prices are higher and you've locked in that price --15 MR. RICHARD BEL: Okay. Okay. 16 MR. ED WOJCZYNSKI: -- then -- so in -17 - in this circumstance there was more upside than 18 downside. And -- and that was an imp -- that was one 19 of the drivers here. 20 MR. RICHARD BEL: Okay. Thank you. 21 22 CONTINUED BY MR. BYRON WILLIAMS: 23 MR. BYRON WILLIAMS: Mr. Wojczynski, 24 just to follow up on that for just a couple last 25 points and then I will get to Ms. Pachal and -- and

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her colleagues, but... 1 2 MR. ED WOJCZYNSKI: Yeah, they're feeling neglected. 3 MR. BYRON WILLIAMS: I'm sure. 4 In --5 in terms of Plan 6 -- or when -- when Hydro's doing 6 its projections, it is assuming for -- for all the plans, I'll suggest to you that it is able to sell its 7 dependable power at long-term export prices. 8 9 Would that be fair, sir? 10 MR. ED WOJCZYNSKI: Yes. 11 MR. BYRON WILLIAMS: And if I -- and 12 so built into both -- built into Plan 6 and -- there 13 will be an expectation that any dependable power can 14 be sold at long-term export prices? 15 MR. ED WOJCZYNSKI: Yes. 16 MR. BYRON WILLIAMS: Okay. And if I'm 17 getting into CSI with this next question, you'll just 18 chastise me and we'll -- we'll move on. 19 MR. ED WOJCZYNSKI: I haven't yet had 20 an opportunity to chastise you. I would look forward 21 to that. 22 MR. BYRON WILLIAMS: Speak to my 23 client, sir, she's... 24 When I go to the -- either the expected 25 value or the ref/ref/ref value for Plan 6 versus Plan

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4121 5, does that suggest to me that the long-term 1 expectations of export prices built into Plan 6 are 2 somewhat higher than the results of the Wisconsin 3 Public Service sale? 4 5 MR. ED WOJCZYNSKI: No. You have to -6 - in Plan 5 you're advancing the gas turbines. And although their capital costs are less than hydro, 7 they're still significant. 8 9 MR. BYRON WILLIAMS: Thank you for 10 that. Ms. Pachal, a couple questions for you, and 11 then I think a number -- the next thirty (30) minutes 12 or so we'll be going to the -- your colleague --13 colleague to your left. 14 But you spoke yesterday both with My 15 Learned Friend Mr. Hombach, as well as with My Learned Friend Ms. Saunders, about the -- the work that Hydro 16 is doing with the Northern Manitoba Sectoral Council? 17 18 Is that right? 19 MS. SHAWNA PACHAL: Sector Council. 20 MR. BYRON WILLIAMS: I still can't 21 read my handwriting, I apologize for that. And -- and that -- that work relates to efforts to enhance the 22 23 apprentice opportunities. 24 Is that fair? 25 MS. SHAWNA PACHAL: That's correct.

4122 MR. BYRON WILLIAMS: And I've tried to 1 brief myself both in conversations with others who are 2 in the room, but has this program begun, or is it yet 3 4 to begin? 5 MS. SHAWNA PACHAL: It is just about 6 to be begin. I believe the final negotiations of the contract with the Northern Manitoba Sector Council are 7 just -- just being finalized --8 9 MR. BYRON WILLIAMS: And --10 MS. SHAWNA PACHAL: -- details of the 11 contract. 12 MR. BYRON WILLIAMS: -- do we have 13 expectations in terms of how many participants will be 14 in this program, Ms. Pachal? 15 MS. SHAWNA PACHAL: It's a pilot 16 project, and I believe it's between twenty (20) and thirty (30), and I think they're trying to figure that 17 out, too, in terms of -- because as I mentioned we're 18 19 going to guarantee that every individual that's 20 brought into the program will have a placement so they can get their hours. 21 22 So I think they're just doing -- making 23 sure they've got the employers in place and -- and 24 figuring out how many they can cover, given the 25 placements they can get plus the budget.

4123 MR. BYRON WILLIAMS: And, Ms. Pachal, 1 so is the expected intake twenty (20) to thirty (30) 2 persons overall, or twenty (20) to thirty (30) persons 3 4 annually? 5 MS. SHAWNA PACHAL: Well, it's a pilot 6 project, so we're starting with twenty (20) to thirty 7 (30), and we'll see how it goes. 8 MR. BYRON WILLIAMS: And in terms of 9 your expectation of twenty (20) to thirty (30) persons 10 is -- I take it that's based upon a gaps analysis or a market analysis of some sort? 11 12 Or what is the basis for that estimate? MS. SHAWNA PACHAL: It's -- it's 13 14 primarily a combination of the people who understand 15 what the industries are up there of how many 16 placements we can guarantee, combined with the 17 available people, and combined with a budget of how 18 much money we're willing to spend for a pilot project. 19 MR. BYRON WILLIAMS: What would be the 20 expected duration -- let's say I'm -- I'm a person who 21 enters in 2014; how long would it take me to get 22 through the program? 23 MS. SHAWNA PACHAL: Well, generally 24 they're approximately four (4) year apprenticeships, 25 but the -- one of our intention is if we still have

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4124 HNETI trainees who aren't through their full 1 apprenticeship, maybe their at apprenticeship level 2 2 or 3, we'd want to get them into the program to help 3 them finish and get their journeyman ticket. 4 5 And, so it will depend on who applies, 6 who we select, and what levels they're starting at. 7 So the amount of time it takes may vary. 8 MR. BYRON WILLIAMS: And just for 9 reference purposes, perhaps we could pull up CAC Exhibit 45-7, page 119. That should be Appendix E. 10 11 That's fabulous. And, Ms. Pachal -- oh, sorry, Ms. 12 Pachal. 13 14 (BRIEF PAUSE) 15 16 MS. SHAWNA PACHAL: What page are you 17 on, please? 18 MR. BYRON WILLIAMS: Page 119. 19 (BRIEF PAUSE) 20 21 22 MR. BYRON WILLIAMS: Oh, in the bottom 23 right-hand corner of the Deloitte report. I apologize 24 for this. It should be page 119. It's Appendix E. 25 And -- and I really -- you could probably work off the

4125 screen for this one, but it's up to you. 1 MS. JANE KIDD-HANTSCHER: 2 The complication, I think, is the book of documents didn't 3 4 go through the entire report. So it's okay, I have it 5 for Ms. Pachal here. It stopped at page 80 or so. 6 MR. BYRON WILLIAMS: Oh, we didn't put 7 in the -- I think you may have the wrong exhibit. It's 45-7. 8 9 MS. SHAWNA PACHAL: Yes, we're good. 10 MR. BYRON WILLIAMS: Okay. So, Ms. 11 Pachal or Ms. Kidd-Hantscher, you see here 12 descriptions of the -- the various categories of 13 apprentices that were considered in the course of 14 Wuskwatim. 15 Would that be fair? 16 MS. SHAWNA PACHAL: Yes. 17 MR. BYRON WILLIAMS: And in -- in 18 terms of the pilot project with the Northern Manitoba 19 Sector Council, do you have expectations in terms of what the relative mix of job descripti -- descriptions 20 21 for apprentices will be? 22 MS. SHAWNA PACHAL: We have tried to 23 work on -- focus on trades that are plentiful that 24 will have the most opportunities to get hours, that 25 are transferable across industries and that are

4126 transferable outside of the -- well, transferable 1 across industries, so they -- they aren't just 2 focussed on the Hydro projects. And there was a lot 3 of discussion and debate about what those would be. 4 5 MR. BYRON WILLIAMS: Would you be 6 able, by way of undertaking -- like, so you have an anticipated list of the hot topic apprentice opp --7 opportunities that will be available under this pilot 8 9 project? 10 MS. SHAWNA PACHAL: Yes, we do. 11 MR. BYRON WILLIAMS: And could you, by 12 way of undertaking, provide that list? 13 MS. SHAWNA PACHAL: I absolutely can 14 undertake to provide the list of the designated trades 15 we'll be focussing on in the Northern Construction 16 Trades Pilot Project. 17 Thank you very MR. BYRON WILLIAMS: 18 much. And thank you for a better undertaking than the 19 question that was posed as well. 20 MS. SHAWNA PACHAL: Always like to 21 help you out. 22 23 --- UNDERTAKING NO. 76: Manitoba Hydro to provide 24 the list of the designated 25 trades focussed on in the

4127 Northern Construction 1 2 Trades Pilot Project 3 CONTINUED BY MR. BYRON WILLIAMS: 4 5 MR. BYRON WILLIAMS: Well, we're on a 6 roll. Let's just continue. Perhaps we can turn to Exhibit CAC-45-7, pages 78 and 79, marked in the 7 8 bottom right-hand corner, this being the Deloitte 9 report. 10 MS. JANE KIDD-HANTSCHER: Mr. 11 Williams, I didn't reprint because I have my own copy. 12 So could you just tell me the page number on the bottom that I can look at? 13 14 MR. BYRON WILLIAMS: Yeah, that's --15 that is the page, page 78. 16 MS. JANE KIDD-HANTSCHER: Of the 17 actual report? 18 MR. BYRON WILLIAMS: Yes. And I think 19 that's how we paginate it in the exhibit as well. So 20 -- but I could be -- I'm not in charge of that. I'm not trusted. 21 22 23 (BRIEF PAUSE) 24 25 MR. BYRON WILLIAMS: And we don't know

4128 -- need to go into detail, but on pages 78 and 79 1 there is a discussion of challenges that arose in the 2 course of the Wuskwatim generating station 3 construction in terms of the interpretation of the 4 5 Burntwood Nelson Agreement. 6 Is that fair? 7 MS. SHAWNA PACHAL: I think that's fair. 8 MR. BYRON WILLIAMS: 9 And ju -- we're 10 going to come back to this point later, but if we turn to the top of page 79, the second paragraph there. 11 We 12 will see, and you'll agree with me that there was a 13 renegotiation of the interpretation of Article 12.42 of the BNA which came into effect on or about June 14 15 10th -- June 6th, 2010. 16 Would that be fair? 17 MS. SHAWNA PACHAL: Yes. 18 MR. BYRON WILLIAMS: So my question to 19 you is: Since that point in tarm -- time and apart from this specific renegotiation referenced on -- on 20 21 page 79 of the Deloitte report, have there been any 22 additional elements of the Burntwood Nelson agreement 23 renegotiated? 24 MS. SHAWNA PACHAL: Well, I think that 25 we would have to do an undertaking specifically to let

4129 you know that. So we'll undertake to let you know 1 what other specific -- if there have been any 2 additional things undertaken. 3 4 5 --- UNDERTAKING NO. 77: Manitoba Hydro to indicate 6 if there been any additional elements of the 7 8 Burntwood Nelson agreement 9 renegotiated 10 11 MS. SHAWNA PACHAL: I -- I would like to point out that we've learned a lot from Wuskwatim 12 13 in terms of the Burntwood Nelson Agreement and other issues associated with the hiring. And so a number of 14 15 things are underway for Keeyask. 16 For example, we just recently got the 17 province who runs the job referral system supported by 18 the BNA to accept a letter from chief in council that 19 verifies the membership and residency of the members 20 applying into the program. So that was a bit of a 21 hurdle for some of our partners and other Aboriginal -- Northern Aboriginal individuals or other Aboriginal 22 23 individuals because they had to find all this 24 paperwork and -- as opposed to just getting a letter 25 from chief in council.

4130 1 We've got -- for Keeyask we have liaison officers job seeker -- job seeker managers in 2 each of the communities. There's a member of each of 3 our partner communities who has the job of job seeker 4 5 manager to assist their members in registering with 6 the job referral service. And also, they keep track 7 of -- there was also a concern that the registration in the job referral system times out after six (6) 8 9 months and you have to renew it. And that was becoming a bit of an issue. 10 11 So now the job referral -- or the job 12 seeker managers are able to keep track of when these 13 renewals are required. And it's their job to work 14 with their members to make sure they're renewed and 15 kept up to date. 16 We're also revisiting -- like we're revisiting the six (6) month renewal, although it's a 17 18 really important requirement because it's not -- if 19 things aren't updated at least every six (6) months, we don't have the most current information and it --20 21 it can cause issues. So some people would like us to 22 remove it, but we're -- we're not really keen on doing 23 that. We're taking a look at it again, but we're 24 hoping that the job seeker managers and the -- and the 25 notification that the -- that renewals are coming due

4131 will assist and -- and address some of those issues. 1 2 We'll have an Aboriginal union rep working with the HPMA, the Allied Hydro Council, to 3 assist Aboriginal members on the project with 4 5 interpreting the BNA and understanding the BNA and 6 some of the union requirements and some of the issues. So we've tried to learn from the 7 Deloitte report and from our experience on Wuskwatim 8 9 and put in a number of things to address what the 10 major concerns were on Wuskwatim. 11 MR. BYRON WILLIAMS: And thank --12 MS. SHAWNA PACHAL: But Jane might be 13 able to add to the list. She's probably more informed on that than I am. 14 15 MR. BYRON WILLIAMS: This is important 16 information for -- for all of us, so please feel welcome to do so. 17 18 MS. JANE KIDD-HANTSCHER: In addition 19 to what Ms. Pachal mentioned there, other measures are 20 the -- we're going to also have Keeyask Cree Nation 21 site representative positions on the project, so those 22 will be a couple of positions. 23 We did have a similar position on the 24 Wuskwatim Project, but it came in late, sort of 25 midstream. So these, again, will be another place --

4132 or people that community members can access, in terms 1 of issues, challenges, positives on the project. 2 They're there to liaise between the project manager, 3 4 being Hydro, and the communities. 5 We're also going to have -- which we 6 did have on Wuskwatim. We have the employee retention 7 and support contract for Keeyask. We did have a various similar contract on Wuskwatim. And that --8 9 this one is really critical because this is where you have the counselling services, cross-cultural 10 11 activities, ceremonies; so the components that are 12 exceptionally important to the community, and building 13 a bridge between the individuals who work on that 14 contract and all employees on site, but very 15 specifically, Aboriginal employees on site. So I think those in addition to what 16 17 Ms. Pachal mentioned -- actually, one other, as well, 18 is we are going -- there will be implementation 19 offices within each of the communities. And this is 20 something that we also had at the Nelson House for the 21 Wuskwatim Project. So this is an office that exists in each of the communities that access the main 22 23 liaison between Hydro and the partner communities 24 throughout the life of the project. 25 But I think, more importantly, it's

4133 that other central location where individuals from the 1 communities can go and talk to people who work very 2 closely with the Corporation on the project, express 3 concerns, issues. 4 5 So between what Ms. Pachal mentioned 6 and what I've indicated, there are all -- a number of measures and mechanisms, some of which certainly we 7 had on Wuskwatim, others are a little bit different or 8 9 being enhanced for Keeyask. 10 MR. BYRON WILLIAMS: Thank you to --11 to both of you. Mr. Wojczynski, I told you the yeses 12 were going to be ending soon, and --13 MS. SHAWNA PACHAL: And I'm going to 14 keep going. 15 MR. BYRON WILLIAMS: Well, if you -that's fine, because -- okay, go ahead, and then I --16 because this is important for our client to 17 18 understand. And I'll ask Diane (sic) to scroll down 19 to page -- or up to page 78 while you're doing that. 20 MS. SHAWNA PACHAL: Excellent. One 21 (1) other thing that I remembered too is one (1) of 22 the things that -- I think it's human nature that you 23 often hear of the things that don't work as opposed to all the things that do. And so there's quite a few 24 success stories associated with Wuskwatim, which 25

1 hopefully Jane will get a chance to talk to you about 2 this morning.

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3 But one (1) of the other things we're doing is -- you know there -- there was a num --4 5 instances where -- I shou -- I'm not -- I shouldn't 6 say a number of instances, there were a few instances 7 where people felt that the job qualifications that were being requested by the contractor were too 8 9 stringent. So Manitoba Hydro -- just to understand, 10 that Manitoba Hydro and the unions use a national 11 occupation -- occupational classification code. So 12 they use a standardized code of what the 13 qualifications should be for a -- for a certain 14 position.

15 But having said that, we're not just 16 relying on that. Manitoba Hydro is reviewing all of the -- the standard template qualifications to make 17 18 sure that there's no unreasonable or stringent 19 qualifications that will exclude somebody from a 20 position that they should otherwise have. 21 So an example would be if they say 22 somebody needs WHMIS training, well, you can get WHMIS 23 training in a CBT module in a day. So it's not a 24 reason to say somebody can't get a job because they 25 don't have that training. So making sure there's

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4135 nothing like that on the -- on the qualifications and 1 nothing that there's (sic) unreasonable that are 2 popping people out of the system that would be 3 otherwise qualified. 4 5 MR. BYRON WILLIAMS: Thank you. And I 6 should have said Diana, instead of Diane, I'm sorry for that. 7 8 MS. JANE KIDD-HANTSCHER: And I just -9 - just to further -- sorry, Mr. Williams, we're --10 we're going to let you come back to us in just one (1) 11 minute. 12 MR. BYRON WILLIAMS: You're going to 13 let me ask some questions. 14 MS. JANE KIDD-HANTSCHER: No, we're --15 MR. BYRON WILLIAMS: That's very 16 generous of you. 17 MS. JANE KIDD-HANTSCHER: We just -- a 18 lot of what we are referencing is -- or I'm 19 specifically looking at and was hoping to get a chance to talk more about this morning is that it's a 20 21 fantastic newsletter that NCN put out throughout -they did a number of them throughout the life of the 22 23 project, just as our Keeyask partners certainly do on 24 this project. 25 But this was documented in April of

4136 2011, and we can certainly have copies of this made 1 for the Board if you would like. And it's -- it's an 2 amazing snapshot of the employment situation on the 3 project and it covers all aspects. There's -- there's 4 5 assumptions in here, there's challenges, there's 6 positives, there's success stories, training, 7 employment outcomes, so the gamet from -- for five (5) years of the project. 8 9 So if that's of interest we can 10 certainly talk to our people on the 9th floor and get 11 them to make copies and we can have those ready later 12 on. 13 MR. BYRON WILLIAMS: Ms. -- Ms. Kidd-Hantscher, I know our client would be interested in --14 15 in seeing that. So certainly I'll request that as an 16 -- this will be the one (1) undertaking Hydro has no 17 problems offering, clearly. 18 So I would ask you to undertake to file 19 that specific document. And for the court reporter, 20 if you can just name the document for her by way of 21 the undertaking. 22 MS. JANE KIDD-HANTSCHER: Shawn is 23 helping me with my mic. The name of the document is: 24 "MCN Wuskwatim Employment, The 25 Picture As The Project Nears

4137 Completion, and CN Member Update 1 2 Newsletter April 2011." 3 So we will undertake to have copies of that provided. 4 5 6 --- UNDERTAKING NO. 78: Manitoba Hydro to provide 7 copies of MCN Wuskwatim 8 Employment, The Picture As 9 The Project Nears 10 Completion, and CN Member 11 Update Newsletter April 12 2011 13 14 CONTINUED BY MR. BYRON WILLIAMS: 15 MR. BYRON WILLIAMS: And we -- I -- we 16 certainly want to hear about this. I do have to --17 I'm going to start exercising a bit of control in 18 terms of the answers, but that's -- I had my run with 19 Mr. Wojczynski, so I -- I knew we were going to go into a bit more detail here. 20 21 And we thank you for the -- the good 22 news from Wuskwatim. Without asking you to elaborate, 23 I will ask you to confirm that there was tension 24 associated with Wuskwatim in terms of the hiring. And 25 indeed, at one point in time there were some protests.

Would that be fair? 1 2 MS. JANE KIDD-HANTSCHER: That would be fair. 3 4 MR. BYRON WILLIAMS: No, Ms. Pachal, 5 you've generously undertaken to review -- to see 6 whether there is any subsequent re-negotiation of the 7 Burntwood Nelson Agreement, other than the 12.4.2 that we've discussed previously. 8 9 Is that correct? 10 MS. SHAWNA PACHAL: That's correct. 11 MR. BYRON WILLIAMS: Would it be fair 12 to say that one of the messages from Deloitte in terms 13 of its report, as referenced at page 78, was that 14 there were challenges noted both by Hydro and Union 15 planners that Clause 12.4.1.2 allowed the contractor 16 to layoff whomever they wanted as long as the 17 contractor determined the worker being retained had 18 better skills, abilities, or work performance than 19 those being laid off. 20 Would that be fair? MS. JANE KIDD-HANTSCHER: 21 That's a 22 direct quote from the report --23 MR. BYRON WILLIAMS: And --24 MS. JANE KIDD-HANTSCHER: -- yes. 25 MR. BYRON WILLIAMS: -- that's Hydro's

understanding? 1 2 MS. JANE KIDD-HANTSCHER: My understanding is what's in the report. 3 MR. BYRON WILLIAMS: Yes. And so, Ms. 4 5 Pachal, in particular, our client is interested in 6 understanding whether 12.4.1.2 has been renegotiated, okay. So I'll ask you to report back on that. 7 8 MS. SHAWNA PACHAL: I will. 9 MR. BYRON WILLIAMS: Thank you. 10 MS. SHAWNA PACHAL: And I can also 11 report back on my undertaking that the Northern 12 Construction Trades Training Pilot Program is focussed 13 on training industrial mechanics, industrial electricians, steamfitters, and pipefitters. 14 15 MR. BYRON WILLIAMS: Could you repeat those four (4), Ms. Pachal? 16 17 MS. SHAWNA PACHAL: Industrial 18 mechanics, industrial electricians, steamfitters, and 19 pipefitters. 20 21 (BRIEF PAUSE) 22 23 MR. BYRON WILLIAMS: Thank you for 24 that. If we can scroll up page 78 for just one (1) 25 second and, Ms. Pachal, I believe you adverted to this

4140 in your -- in your response previously, but there was 1 a concern expressed that some contractors were using 2 skills to reduce the number of jobs -- qualified job 3 seekers referred from the JRS, or job referral 4 5 service; would that be fair? 6 MS. SHAWNA PACHAL: Yes. 7 MR. BYRON WILLIAMS: And, so some of the activities you've under -- you discussed 8 9 previously would be aimed at addressing at least part of that issue? 10 11 MS. SHAWNA PACHAL: Yes, and there's a 12 number of mechanisms at the project for individuals to 13 -- if there is a concern that that's happened, there's numerous mechanisms for people to raise concerns. 14 And 15 when people raise concerns, our construction people go 16 back and check the -- the hiring process and what the 17 qualifications were to verify that it was a legitimate 18 -- that somebody wasn't hired. 19 MR. BYRON WILLIAMS: Okay. Now, we're 20 going to, at a higher level, run through a bit of the 21 Deloitte report. Just for memory purpose and, Mr. 22 Wojczynski, you've probably been around longer than 23 some of your other panel members, can -- and -- and I 24 meant that -- I meant that in a laudatory way, sir. 25 MR. ED WOJCZYNSKI: I accept that, and

thank you for the complement. 1 2 MR. BYRON WILLIAMS: Am I correct in suggesting to you that Limestone was completed in the 3 early 1990s? Would that be fair? 4 5 MR. ED WOJCZYNSKI: Yes. 6 MR. BYRON WILLIAMS: Ms. Kidd-Hantscher and Ms. Pachal, we're going to turn towards 7 the -- the start of the Deloitte report, being page 4 8 9 in the -- marked in the bottom right-hand corner. And, Ms. Kidd-Hantscher, I -- I'm going to use a few 10 acronyms during our discussion, so I just want to make 11 12 sure we're using the acronyms in the same way. 13 So if I use the acronym or the -- H-N-14 T-E-I, or HNTEI, you'll understand me to be referring 15 to the Hydro Northern Training and Employment Initiative? 16 17 MS. JANE KIDD-HANTSCHER: Yes, and we 18 refer to it as HNTEI. 19 MR. BYRON WILLIAMS: HNTEI, and I want 20 to call it Nettie (phonetic), so you'll apologize. 21 I'll try and call it HNTEI, but I'm promising. HNTEI. 22 Also PPT you'll understand to refer to 23 pre-project training, agreed? 24 MS. JANE KIDD-HANTSCHER: Agreed. 25 MR. BYRON WILLIAMS: And OJT which Ms.

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4142 Pachal talked about extensively yesterday relates to 1 on-the-job training, correct? 2 3 MS. JANE KIDD-HANTSCHER: Yes. 4 MR. BYRON WILLIAMS: And yesterday 5 certainly both -- well, actually two (2) days ago in 6 your direct evidence but yesterday Hydro discussed the extensive investment of Hydro, its Cree Nation 7 partners, the province and federal government, MKO and 8 9 -- and the MMF, in training programs related to -- to 10 northern opportunities. 11 Would that be fair? 12 MS. JANE KIDD-HANTSCHER: Yes. 13 MR. BYRON WILLIAMS: And if we think 14 of the objective of the pre-project training, an 15 important goal was to train and prepare northern 16 Aboriginal workers for employment in a wide range of occupations during the construction of Wuskwatim and 17 18 Keeyask. 19 Would that be fair? 20 MS. SHAWNA PACHAL: Yes. 21 MR. BYRON WILLIAMS: And we'll get to 22 HNTEI in a moment, but pre-project training for 23 Wuskwatim actually started in 2001. 24 Would that be fair? 25 MS. SHAWNA PACHAL: Yeah, Manitoba

Hydro actually started working with its Keeyask Cree 1 Nation partners and Nisichawayasihk Cree Nation in 2 around 2001. We started flowing dollars for training 3 initiatives around that time. And those dollars that 4 5 we started to flow were part of the \$10 million that 6 eventually got rolled into the 60 million that became the overall HNTEI initiative. 7 8 MR. BYRON WILLIAMS: Thank you for

9 that. And that's -- that's helpful. And then the --10 you -- the HNTEI -- what eventually became the HNTEI 11 initiative -- HNTEI itself was formally established in 12 2005, agreed?

13 MS. SHAWNA PACHAL: That's right. And 14 just to help people understand, in order to access the 15 \$20 million from the Aboriginal Skills and Employment 16 Program from the federal government they -- the federal government had very strict guidelines about 17 18 what the mechanisms and the structure had to be. So 19 we had to -- as funders we had to have a separate 20 entity that was overseeing and administrating the 21 initiative which is why we had to set up the Wuskwatim 22 and Keeyask Training Consortium; that was a 23 requirement of the federal government. 24 So they had a lot of rules that were 25 somewhat awkward for us based on how we were set up

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4144 and all our partners. But in order to access those 1 dollars we had to jump through those hoops to -- to 2 set up. So the initiative was somewhat complex, I 3 would say, from an administrative perspective in order 4 5 to meet the requirements of the federal government to access that \$20 million. 6 7 MR. BYRON WILLIAMS: And thank you. And HNTEI completed its mandate in 2010. 8 9 Would that be fair? 10 MS. SHAWNA PACHAL: That's correct. 11 MR. BYRON WILLIAMS: And, indeed, it 12 was extended for about a year to allow for the 13 utilization of some funds that hadn't previously been 14 expended. 15 Would that be accurate? 16 MS. SHAWNA PACHAL: That's correct. 17 About 99 percent of the funds had been expended. 18 There was a little bit left over and we created a 19 different mechanism for people to try and use up what was left. 20 21 MR. BYRON WILLIAMS: And when one 22 thinks of OJT, or on-the-job training, we can presume 23 that that would have continued throughout the -- the 24 life of the -- the Wuskwatim construction? 25 Would that be fair?

4145 MS. JANE KIDD-HANTSCHER: 1 That's fair. 2 MR. BYRON WILLIAMS: And following the completion of -- well, HNTEI, at some point in time 3 Deloitte was hired to evaluate the -- the program. 4 5 MS. JANE KIDD-HANTSCHER: Yeah. The 6 engagement of Deloitte as Ms. Pachal, I think, maybe 7 alluded to yesterday or the day before, was a decision 8 made by the partnership, the Wuskwatim Power Limited 9 Partnership - so Hydro and NCN. And it was a -- there -- it was a tough decision, because we -- it's easy to 10 11 look at yourself, but then to -- to say, Well, let's -12 - let's get a third party to come in and look at all 13 aspects of the project for training -- or from a 14 training and employment perspective. 15 So that was a decision taken by the 16 Board, given a lot of thought. Because we wanted to 17 learn; we wanted to see what we had done well, what we 18 could do better in terms of both Hydro and our 19 partners, and so that was that decision that was 20 taken. And that was over two (2) years ago. It was a 21 very long undertaking to complete this evaluation. 22 MR. BYRON WILLIAMS: Thank you for 23 that. And when you speak of 'partners' we can use 24 them in -- in two (2) senses. I want to use the term 25 'partners' to focus for a second on the Wuskwatim

4146 Keeyask Training Consortium. 1 2 And would I be correct in suggesting to you that Fox Lake, TC -- Tataskweyak Cree Nation, War 3 4 Lake, and York Factory were all -- all part -partners of that consortium? 5 MS. SHAWNA PACHAL: As -- as was the M 6 7 -- the MKO, and the Manitoba Metis Federation. 8 MR. BYRON WILLIAMS: And presumably 9 Nisichawayasihk? 10 MS. SHAWNA PACHAL: And NCN, right. 11 MR. BYRON WILLIAMS: And I'm sorry for 12 -- to the court reporter for talking over your answer. 13 I apologize for that. 14 Ms. Pachal, we're going to come to the 15 -- or Ms. Kidd-Hantscher, we're going to come to the 16 addendum to the Deloitte report in a second. But I'm wondering if I could ask you, first of all, to turn to 17 18 CAC Exhibit 45-7, the Deloitte report, page 10, marked 19 in the bottom right-hand corner. And if we could 20 scroll down just to that first paragraph there. 21 And, Ms. Kidd-Hantscher, just in terms 22 of flowing from the Wuskwatim EIS, the initial 23 projection from the Wuskwatim EIS was that the project 24 would contribute one thousand one hundred and nine 25 point one (1,109.1) person years of employment to the

Manitoba economy. But we should note that that 1 prediction did not include Hydro and supervisory 2 persons onsite. 3 Would that be fair? 4 5 MS. JANE KIDD-HANTSCHER: That would 6 be fair. 7 MR. BYRON WILLIAMS: And so just to be clear, the focus of the prediction of one thousand one 8 9 hundred and nine point one (1,109.1) person years of 10 employment would be focussed on the designated trades, 11 the non-designated trades, and the construction 12 support, agreed? MS. JANE KIDD-HANTSCHER: 13 Agreed. 14 Yeah, that prediction was based upon assumptions and -- you know, that Hydro made, as well a lot of 15 16 community information to formulate these predictions 17 which it's important to note, you know, we hadn't 18 built a generation station, as Mr. Williams referred 19 to, in quite some time, and we had never built one 20 with a partner. 21 So the predictions behind the Wuskwatim 22 EIS were pretty groundbreaking at -- at that time and 23 as we're going to -- I'm sure we're going to get to. 24 The outcome ended up quite different from where we 25 started in terms of a prediction.

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4148 MR. BYRON WILLIAMS: Yeah. 1 And I -and I -- and we'll do that. Let's -- let's turn, if 2 we could, to page 45-7 of -- excuse me, CAC Exhibit 3 45-7, page 126. And we can scroll down to see Table 4 Stop there, please, thank you, the very last page 5 1. of the -- of the exhibit. 6 7 Ms. Kidd-Hantscher, this is a one (1) page addendum to the Deloitte Report prepared on or 8 9 about February 27th, 2014, agreed? 10 MS. JANE KIDD-HANTSCHER: Agreed. 11 MR. BYRON WILLIAMS: And what it does 12 is, in the second column, provide the original values 13 in terms of total person years of employment, and then 14 subdivided into some categories that were presented in 15 the -- the Deloitte Report of November of 2013, 16 agreed? 17 MS. JANE KIDD-HANTSCHER: Agreed. 18 MR. BYRON WILLIAMS: And then over on 19 the right-hand column we see the updated values that 20 were presented in this addendum, agreed? 21 MS. JANE KIDD-HANTSCHER: Agreed. 22 MR. BYRON WILLIAMS: And so -- and --23 and just for continuity, Ms. Kidd-Hantscher, you'll just remind us that in the EIS you are predicting 24 25 around eleven hundred (1,100) person years of

4149 employment with the proviso that that was excluding 1 Manitoba Hydro and supervisory positions, agreed? 2 3 MS. JANE KIDD-HANTSCHER: Agreed. MR. BYRON WILLIAMS: 4 And then the 5 original values in the Deloitte Report were around 6 twenty-eight (28) or twenty-nine hundred (2,900) as 7 presented in November of -- of 2013, agreed? 8 MS. JANE KIDD-HANTSCHER: Yes. 9 MR. BYRON WILLIAMS: And what you've 10 done in the addendum is update that to three thousand 11 five hundred and thirty-five (3,535) person years of 12 employment associated with Wuskwatim. Would that be fair? 13 14 MS. JANE KIDD-HANTSCHER: Yes. And I 15 think it's important right now to clarify the basis of that reconciliation as we're referring to it. So the 16 twenty-eight fifty-nine (2,859) in the original 17 18 value Φ s column was based upon information that was 19 provided in contractor reports, and that's how we 20 captured the information throughout the life of the --21 the project, and we used that for our reporting 22 purposes. 23 It did include some supervisory and 24 out-of-scope employment, but -- and Manitoba Hydro 25 employees but certainly not very many because it was

based upon the contractors' employment reporting. The 1 updated value of thirty-five thirty-five (3,535) and 2 all of the corresponding numbers underneath that, so 3 twenty-two thirty (2,230), et cetera, that's based on 4 5 the -- what we refer to as the contractor employee 6 database, which is a hydro database. And that is a 7 database that is capturing information throughout the life of the project. 8

9 But you can't report on the total 10 person years until -- out of that database until an 11 employee finishes their work or separates, as we call 12 it, their -- their term is complete on the project. 13 So the majority of the difference between the twenty-14 eight fifty-nine (2,859) and the thirty-five thirty-15 five (3,535) is due to the contractor labour reports 16 that were used throughout the life of the project 17 essentially understating the amount of out of scope or 18 -- or supervisory employment.

19 So when we completed the Deloitte 20 report we knew there would be a difference. We 21 weren't sure, of course, of the nature of the 22 difference given it was between twenty-eight fifty-23 nine (2,859) and the thirty-five thirty-five (3,535). 24 That is why we issued the addendum, because it did 25 provide a significant increase to the number, and then

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change the corresponding percentages below. 1 So I -- I know that's a lot of 2 information in a short -- but it's important to 3 clarify the basis of the reconciliation. 4 5 MR. BYRON WILLIAMS: And I thank you 6 for that. And, so if one were inclined to compare the 7 updated values with the original EIS predictions, you would -- you would offer two (2) caveats in that 8 9 analysis, one (1) being that the original predications did not contain contract and supervisory provisions or 10 11 estimates, and the second being that this was your 12 first project in twelve (12) years. 13 MS. JANE KIDD-HANTSCHER: I think you may have -- you said, "contract," but I -- it didn't 14 15 include supervisory. I think that's what you meant, 16 as well as, yes, it was the first project in a very 17 long time. I think the -- a really important thing to 18 remember, and I mentioned it earlier is, the estimate 19 -- the predication was much lower than where we ended 20 up. 21 So we predicated eleven hundred and 22 nine (1,109) person years, and the project realized 23 thirty-five hundred (3,500) person -- three (3) times 24 the person years. So that's very significant in terms 25 of the number of person years increased over what we

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had projected. 1 2 MR. BYRON WILLIAMS: Thank you for that. And if I could direct Manitoba Hydro's 3 attention, you might want to keep your -- your finger 4 on this page, but if I could -- on a paper copy of it, 5 6 but if I could direct Manitoba Hydro's attention to CAC Exhibit 45-8, the last tab, Tab 11, and in -- and 7 that would be page 76. 8 9 MS. JANE KIDD-HANTSCHER: I have it. 10 MR. BYRON WILLIAMS: And, Ms. Kidd-Hantscher, you understand that this is my effort to 11 12 take the information provided in the Addendum to the 13 Deloitte report, and present it dis-aggregated between 14 non Manitobans, other Manitobans excluding northern 15 Manitobans, and northern Manitoba Aboriginals, and 16 then subsequently between northern Manitobans and 17 northern Manitoba Aboriginals. 18 Do you see that? 19 MS. JANE KIDD-HANTSCHER: Oh, I see, 20 and I -- I checked your math while I was sitting here 21 yesterday afternoon. That's why I asked Ms. Pachal, 22 'cause I marked up her copy. So I -- I've seen what 23 you've done, and I understand the presentation. 24 MR. BYRON WILLIAMS: And -- and how 25 was my math, Ms. Kidd-Hantscher?

4153 1 MS. JANE KIDD-HANTSCHER: It adds in this case, yes. 2 3 MR. BYRON WILLIAMS: The "in this case," was a little hurtful, Ms. Kidd-Hantscher, but I 4 5 will proceed undaunted. 6 And, so just to -- to be clear, starting --starting from the -- you -- you'll accept 7 the -- the validity of my frail mathematical 8 9 calculations in this case, is that right? 10 MS. JANE KIDD-HANTSCHER: I will. 11 MR. BYRON WILLIAMS: Okay. And just 12 starting from the bottom of the first column, in 13 essence, you'll -- you'll see that we start out with 14 looking at the bottom with total person years of 15 employment, correct? 16 MS. JANE KIDD-HANTSCHER: Correct. 17 MR. BYRON WILLIAMS: We work our way 18 up to northern Manitoba Aboriginals, agreed? 19 MS. JANE KIDD-HANTSCHER: Agreed. 20 MR. BYRON WILLIAMS: And then we look 21 at northern Manitobans excluding northern Manitoba 22 Aboriginals. Would that be fair? 23 MS. JANE KIDD-HANTSCHER: Yes. 24 MR. BYRON WILLIAMS: And then we look 25 at other Manitobans leaving aside northern Aboriginals

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4154 and -- and north -- and northern Manitobans, as well, 1 2 correct? MS. JANE KIDD-HANTSCHER: 3 Yes. 4 MR. BYRON WILLIAMS: And finally we 5 look at non Manitobans, correct? 6 MS. JANE KIDD-HANTSCHER: Correct. 7 MR. BYRON WILLIAMS: And you see in the second column over -- over, we present the 8 9 Deloitte original values, agreed? 10 MS. JANE KIDD-HANTSCHER: Agreed. 11 MR. BYRON WILLIAMS: And then in the 12 third column we present the Deloitte updated values, correct? 13 14 MS. JANE KIDD-HANTSCHER: Correct. 15 MR. BYRON WILLIAMS: And then in the 16 fourth column we take the Deloitte updated values as a percentage of the total. Would that be fair? 17 18 MS. JANE KIDD-HANTSCHER: Yes, this is 19 the math I checked. 20 MR. BYRON WILLIAMS: And I can give 21 you a reference later but just, subject to check, 22 would you agree that the percentage of northern 23 Aboriginals employed in Limestone was -- was roughly 24 25 percent of the labour force? 25 Could you MS. JANE KIDD-HANTSCHER:

provide me with the reference, please? 1 2 MR. BYRON WILLIAMS: I'm going off of 3 memory. 4 5 (BRIEF PAUSE) 6 MR. BYRON WILLIAMS: Page 71 of 45-7. 7 8 We don't need to turn there. I'll just let Ms. -- Ms. 9 Kidd-Hantscher turn there. I'm suggesting to you -to you that the total hires on Limestone of northern 10 11 Manitoba Abor -- Aboriginals was 25 percent? 12 MS. JANE KIDD-HANTSCHER: So this is 13 specific to hires --14 MR. BYRON WILLIAMS: Yeah. 15 MS. JANE KIDD-HANTSCHER: -- which was 16 25 percent. Yes, I found that on page 71. 17 MR. BYRON WILLIAMS: Okay. And I 18 realize that this is distinct in employment years. 19 20 (BRIEF PAUSE) 21 22 MR. BYRON WILLIAMS: In terms of -- in 23 terms of the updated Deloitte report, we see that 24 about 27.5 percent of the employment years went to 25 northern Manitoba Aboriginals, agreed?

4156 1 MS. JANE KIDD-HANTSCHER: Yes, agreed. 2 We've rounded that up to 28 in our addendum. 3 MR. BYRON WILLIAMS: I'm not being 4 critical in any way. Northern Manitobans, 5.7 5 percent, correct? 6 MS. JANE KIDD-HANTSCHER: Correct. 7 MR. BYRON WILLIAMS: And non-Manitobans were about 37 percent. Fair enough? 8 9 MS. JANE KIDD-HANTSCHER: Yes. 10 MR. BYRON WILLIAMS: And when one looks at the updated values as compared to the 11 12 original Deloitte values, am I correct in suggesting 13 to you that the biggest difference is between the -the calculated non-Manitobans being roughly four 14 15 hundred and forty-seven (447) more on the addendum 16 than in the original Deloitte report? 17 MS. JANE KIDD-HANTSCHER: Yes, and 18 that would be logical given the explanation I just 19 gave in terms of the basis of the reconcilliation 20 pulling from the contractor reports originally and 21 then the con -- the Hydro database, which captured all 22 of the supervisory and out-of-scope. So, naturally it 23 flows to that. 24 MR. BYRON WILLIAMS: And just 25 focussing on northern Manitoba Aboriginals, you'll

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4157 agree with me that the difference between the original 1 values and the updated values was only -- was -- was 2 twenty-nine (29) additional person years of 3 4 employment, agreed? 5 MS. JANE KIDD-HANTSCHER: I'm sorry, 6 Mr. Williams, you were at northern Manitoba 7 Aboriginals? 8 MR. BYRON WILLIAMS: Yes. 9 MS. JANE KIDD-HANTSCHER: Yes, the 10 nine forty-four (944) to the nine seventy-three (973), 11 yes. 12 MR. BYRON WILLIAMS: And so just to --13 to belabour that point, perhaps unduly, the update in 14 terms of northern Manitoba Aboriginals was twenty-nine 15 (29)? Twenty-nine (29) additional person years of 16 employment? 17 MS. JANE KIDD-HANTSCHER: Yes. Again, 18 for the same reasons that I've just indicated. 19 MR. BYRON WILLIAMS: So when we go and 20 review the information, Ms. Kidd-Hantscher, and the 21 rest of the Deloitte report, we -- we will realize 22 that there was a significant upwards revision in the 23 overall number of employment years, but when we focus 24 on the northern Manitoba original -- Aboriginals in 25 the original Deloitte report, there's not that much of

4158 a difference as compared to the updated values? 1 MS. JANE KIDD-HANTSCHER: You're still 2 speaking specifically about person years? Because we 3 have to be careful. This is the only place that we 4 5 reconciled infor -- was the person years. 6 MR. BYRON WILLIAMS: My point though, Ms. Kidd-Hantscher, is that in terms of person years 7 of employment, the figures in the main Deloitte report 8 9 for northern Manitoba Aboriginals will be very similar to the actual updated figures, agreed? 10 11 MS. JANE KIDD-HANTSCHER: Agreed. 12 MR. BYRON WILLIAMS: Mr. Chair, just 13 seeing the -- the time, I'll -- I wonder if -- I can 14 keep going, or I could take a brief break? 15 16 (BRIEF PAUSE) 17 18 THE CHAIRPERSON: I think we'll take a 19 break right now. Let's take ten (10) minutes, please. 20 21 --- Upon recessing at 10:29 a.m. 22 --- Upon resuming at 10:45 a.m. 23 24 THE CHAIRPERSON: Do we dare continue 25 if Mr. Wojczynski isn't here, or...?

4159 MS. PATTI RAMAGE: I think we 1 2 absolutely should. 3 THE CHAIRPERSON: Okay, let's do that. MS. PATTI RAMAGE: I'll have a little 4 5 fun. And before we start, Manitoba Hydro has the --6 the NCN member update newsletter that was referenced earlier this morning. It can be distributed and 7 marked as Manitoba Hydro Exhibit 134. I believe Ms. 8 9 Fernandes is just getting them up to the panel. 10 11 --- EXHIBIT NO. MH-134: MCN Wuskwatim Employment, The Picture As The Project 12 13 Nears Completion, and CN 14 Member Update Newsletter 15 April 2011 16 17 THE CHAIRPERSON: Mr. Williams, I 18 wonder if you don't mind if I might ask a question in 19 relation to the addendum that we were looking at, 126. And this is addressed to Dr. Shaffer. 20 21 I'm looking at the addendum that's 22 shown here where Keeyask was going to be -- Keeyask 23 realized Manitoba employment of 63 percent. And 24 looking at your report, you were estimating 40 to 45 25 percent of the positions will be filled by Manitobans.

4160 So I'm wondering, can I adduce from 1 that, from -- from the addendum, that your data 2 perhaps is underestimating the amount of available 3 Manitoba positions? 4 5 DR. MARVIN SHAFFER: In -- in our 6 first estimate before we revised our -- our estimate 7 of the employment net benefits, we used the 70 percent 8 Manitoba share. And then in subsequent discussions 9 with Manitoba Hydro officials we reduced that based on further study and further consideration of the 10 11 employment requirements. 12 So the 70 percent was based on -- this 13 is Wuskwatim, I believe. Is that correct? 14 THE CHAIRPERSON: For Wuskwatim. 15 DR. MARVIN SHAFFER: Yes. We -- we 16 started with the monitoring information from Wuskwatim, the November 2012, with the 70 percent. 17 We 18 revised it down with Keeyask because of it being a 19 larger project with much larger requirements and based on the information that was provided to me. 20 21 But I think what you're suggesting is 22 quite right, that because we reduced it to just, I 23 don't have the figure in front of me, but somewhat 24 below 50 percent, just slightly low -- below 50 25 percent, it is a conser -- another area where it's a

conservative estimate. 1 2 THE CHAIRPERSON: That -- and I guess the -- you know, we've talked extensively this morning 3 already about the initiatives that are being done to 4 5 address the hiring of Aboriginal Manitobans. 6 And I guess the question is: What 7 initiatives will be undertaken to ensure that the jobs related to Keeyask if it proceeds can be secured by 8 9 Manitobans, if possible? 10 MS. SHAWNA PACHAL: Well, the primary 11 mechanism for that is under the Burntwood Nelson 12 Agreement in terms of the preferences, so you have to 13 file -- follow the hiring preferences. So the -- the 14 people from out-of-province would be the very last 15 preference you'd go to if you can't find somebody 16 within the province, so if there's nobody in the 17 database. 18 And, you know, we meet regular with all 19 the unions. I mean, everybody's aware of this project 20 and the -- and the skills that are required. They 21 know our workforce estimates. They're well aware of what we need. And I don't think -- I don't think 22 23 that's a surprise to anyone. 24 So the -- the primary protection is 25 through the BNA and through the hiring preferences.

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1 MR. BYRON WILLIAMS: Mr. Chair, I'm --I'm a little bit behind schedule. I will -- I think 2 we have a bit more grinding on Deloitte, and then the 3 other things I expect will move more smoothly, but I 4 will -- I am behind schedule, so I'll -- I'll update 5 6 you at twelve o'clock. And I expect I'll -- I will not be quite done at 12:00 but I'll take the Board's 7 guidance at that point in time, if that's appropriate. 8 9 THE CHAIRPERSON: Thank you for that, Mr. Williams. 10 11 12 CONTINUED BY MR. BYRON WILLIAMS: 13 MR. BYRON WILLIAMS: And, Dr. Shaffer, 14 just a couple questions of follow up to the -- the 15 Chair's questions. In terms of the lower estimate for 16 Keeyask employment related to Manitobans, am I correct 17 in suggesting to you that it -- it would be a function 18 of at least two (2) matters, one being, the larger 19 size of the Keeyask project, and, the second being, 20 limits to the size of the skilled labour pool in 21 Manitoba? 22 DR. MARVIN SHAFFER: I think general 23 labour market conditions throughout western Canada 24 bear on this. And -- and I should say, as well, we're 25 talking about percentages here, not specifically

4163 numbers, so there's still going to be a large number 1 of Manitobans hired. 2 3 And I also wanted to say that the -the ratio of northern Aboriginal to other Manitobans 4 5 hired, we -- we maintain the same as the -- the 50/50 6 split in -- in terms of person years, not -- not in 7 terms of wages, person years that was shown in the Wuskwatim November 2012. So we did retain that but we 8 9 reduced the percentage from our initial estimate, which was the 70 percent that's -- that's shown in --10 11 in that report. 12 It's just based on subsequent 13 consideration, as well as -- as -- as I've said over 14 the last couple of days, an effort to be conservative and not overstate the benefits. That isn't to say you 15 16 wouldn't try to maximize those benefits, it's simply 17 for analytical purposes, not -- trying not to 18 exaggerate them. 19 MR. BYRON WILLIAMS: And in terms of 20 the limits, just to make sure that I understand them, 21 am I correct in suggesting to you that there would be 22 three (3) that might have led to the downward revision 23 in the estimate? One (1) is the overall size of the 24 project, the second is heightened demand in western 25 Canada, and third, limits to the size of the skilled

4164 labour pool in northern Manitoba and in Manitoba. 1 Would that be fair? 2 3 DR. MARVIN SHAFFER: Well -- well, there are limits, of course. As I said, I would -- I 4 5 would describe it more generally as -- as the -- the 6 labour market conditions, particularly for certain 7 skilled types, with the competition out of Alberta, 8 and possibly in the future in British Columbia. 9 MR. BYRON WILLIAMS: Okay. Thank you. 10 THE CHAIRPERSON: I don't want to 11 belabour this point, but it seems to me that if 12 there's an opportunity in northern Manitoba, you'd 13 want to make sure that you maximize the efforts to 14 secure employment for Manitobans in general. I -- you 15 know, I --16 DR. MARVIN SHAFFER: I -- I don't 17 disagree with that at all, and -- and I'm sure you 18 would. And that's why I wanted to make the 19 distinction about, you know, what we assume for 20 purposes of -- of trying to provide an assessment of 21 the relative advantages and disadvantages of different 22 plans. 23 And this still shows a significant 24 advantage with -- with the Hydro plans, but we didn't 25 want to exaggerate it based on labour market

4165 conditions, the size of the project, the challenges of 1 -- of achieving the maximum possible employment in 2 Manitoba by Manitobans. 3 4 5 CONTINUED BY MR. BYRON WILLIAMS: 6 MR. BYRON WILLIAMS: Ms. Pachal -- and -- and thank you, Dr. Shaffer, I'll -- I'll be back to 7 you a bit later. 8 9 DR. MARVIN SHAFFER: I can hardly 10 wait. 11 MR. BYRON WILLIAMS: Ms. Pachal, you 12 spoke a couple of days ago about the -- your 13 expectations that in the event that Conawapa proceeds 14 there -- there may be a skills program focussed on the 15 designated trades. 16 Am I correct on that? 17 MS. SHAWNA PACHAL: Yes, we're still 18 thinking through what the training -- working -- we 19 just started initial discussions, and we haven't even 20 talked with all of our partners yet on Conawapa about 21 what the training initiative may look like for 22 Conawapa, but we -- we are to the extent that we can 23 wanting to focus on the designated trades as much as 24 possible. 25 But again, our partners -- we haven't

4166 even started talking to our partners yet. We don't 1 2 know what that will look like for Conawapa. 3 MR. BYRON WILLIAMS: Fair enough. Mr. 4 Wojczynski, if you could remind me, in -- if Conawapa 5 were to proceed for 2026, am I correct in suggesting 6 to you that you -- you'd have to start work in, what, 2019 or so? 7 8 MR. ED WOJCZYNSKI: 2018. We'd start 9 with the camp and remaining infrastructure. 10 MR. BYRON WILLIAMS: Okay. Thank you 11 for that. Ms. Pachal, am I corre -- or would you 12 agree that since the completion of HNTEI in 2010, 13 there has been no program of comparable magnitude in northern Manitoba? 14 15 MS. SHAWNA PACHAL: Yes, I would 16 agree. And I think I mentioned the other day that's 17 always the challenge, right, is that when we started 18 HNTEI in 2005, when it officially started -- I'm 19 trying to remember, I think it was -- the in-service 20 date for Keeyask at that time was 2014. And so that's always a challenge. So we -- you want to start a 21 22 training program. And I think you see in the 23 Wuskwatim Deloitte report that one (1) of the -- the 24 concerns is starting a program early enough, because 25 individuals in the communities need a -- a significant

4167 amount of upgrading and additional stuff in order to 1 get ready for some of the more skilled jobs. 2 3 So you need to start those programs 4 five (5), six (6), seven (7) years before construction 5 starts. So when we started the in -- when we started 6 the training initiatives we were planning to have an in-service date of 2014. So we would have been 7 starting construction in whatever, 2000 and something. 8 9 So we thought we were five (5) or six (6) years ahead 10 of when we were going to start construction of 11 Keeyask. 12 Subsequently, as you know, the in-13 service date for Keeyask has continued to slip over the years. And now we're protecting an in-service 14 15 date of 2019. But it's always a challenge with these 16 large projects. You're always balancing off what 17 kinds of things you should be doing and what you 18 should be preparing for for projects of this 19 magnitude, given their long duration and also given the amount of time it would take to prepare -- or --20 21 the individuals from some of the northern Aboriginal 22 communities for the skilled -- skilled jobs, so. 23 MR. BYRON WILLIAMS: That's very 24 helpful. And let me just parse that answer for -- for 25 a second. Let's say one is looking at developing a

larger pool of skilled -- can I use the word 1 2 'journeywomen' as well as journeymen? MS. SHAWNA PACHAL: Since we always 3 use journeymen, let's just use journeywomen. 4 5 MR. BYRON WILLIAMS: Okay. Well, let's do that. Ms. Menzies has been chastising me 6 7 quite appropriately for that, so. 8 MS. SHAWNA PACHAL: Well done. 9 MR. BYRON WILLIAMS: And so what I believe you've told us, and we'll break it into 10 pieces, is that even -- for some of the labour pool 11 12 even before one gets to the actual apprenticeship 13 stage, there may be the netce -- necessity of life skill and educational upgrades prior to that. 14 15 Would that be fair? 16 MS. SHAWNA PACHAL: Yeah, and I think 17 again, our -- my colleagues from -- my -- the partners 18 are right behind me and they're probably in the best 19 position to speak to what happens in their community with respect to getting their members ready. 20 21 MR. BYRON WILLIAMS: And I would 22 certainly invite them to -- to chip in at any time, 23 but certainly we saw in Wuskwatim, for example, some 24 of the Cree Nations were arguing that to prepare for 25 the -- even to entrance into the skilled trades one

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4169 would need at -- at least fifty-two (52) weeks of 1 preparation prior -- prior to that. 2 3 Mr. Bland, or other members, would --4 would that be your understanding as well? 5 It wasn't really well -- well worded, 6 and I don't -- but certainly to any of the -- the partners, in the course of Wuskwatim it was suggested 7 that even prior to entresc -- entering the 8 9 apprenticing programs, there was the necessity of educational and -- and life skills upgraded for some 10 of the -- upgrading for some of the labour pool of up 11 12 to a year. 13 Would that be your understanding as well, sir? 14 15 MR. TED BLAND: I would -- I -- I would say that there was programs that were -- there 16 17 was programs that were delivered that were a year, but 18 they were year after year, so it wasn't just a one (1) 19 year program. So yeah, yeah. 20 MR. BYRON WILLIAMS: Thank you, Mr. 21 Bland. And -- and, Ms. Pachal, back to you; and --22 and certainly I invite anyone else from the panel to 23 chip in. 24 But it would be reasonable to expect --25 sorry. Oh, and Ms. Anderson, I didn't mean to cut you

off. 1 2 MS. KAREN ANDERSON: Sorry, I -- I turned it on and I didn't -- I just wanted to comment 3 on the last question that you just asked. For our 4 5 community, it is true that, like, we did need time to 6 prepare our members. 7 And some of the history that I gave yesterday regarding our members not being -- like, 8 9 having great 12 and that, that's part of the reason that we needed the life skills and upgrading programs 10 11 for our members. And that was part of the -- it was 12 ongoing also because it did start, like, back in 2001. 13 And, you know, as the time goes the -- the younger generations come -- get older, and so it has to 14 15 continue on in those same courses, so. Thank you. 16 MR. BYRON WILLIAMS: And thank you, Ms. Anderson. And, Ms. Anderson, if I could ask just 17 18 one (1) follow-up question to that. As one were --19 was -- would be preparing for Keeyask, or perhaps for Conawapa, what I believe you're telling -- telling me 20 is that there will be a need for an annual or a 21 regular upgrading of life skills and education for 22 23 some of the younger members of your community. 24 Would that be fair? 25 MS. KAREN ANDERSON: Yes, but I'm not

4171 sure of the magnitude of it. That -- because we have 1 a grade 12 -- a school that goes to grade 12 now, and 2 import -- and education is really important right now, 3 and so most of our younger people are come -- going 4 5 through that to grade 12 just --6 MR. BYRON WILLIAMS: Okay. 7 MR. TED BLAND: As for York Factory, I -- I would think so. I think that it's been a little 8 9 while since the program has been run. And, you know, 10 as Karen pointed out we do have a lot of younger people that are interested in -- in the projects, and 11 12 especially the upcoming project. So they're asking 13 about different types of training that might become available. 14 15 MR. BYRON WILLIAMS: And, Elder 16 Spence, is there anything you'd like to add on this? If not, that's fine. 17 18 MR. VICTOR SPENCE: Elder Spence is 19 not here. 20 MR. BYRON WILLIAMS: Mr. Spence? Mr. 21 Spence, the younger? 22 MR. VICTOR SPENCE: Good -- good 23 morning. Victor Spence, TCN. Like I said yesterday, 24 I'm not directly involved in the actual employment and 25 training. There are others that -- however, education

is important and prepare -- to prepare our -- our 1 young men and men that are employable to -- that's 2 much better -- for training. 3 And -- but we seem to concentrate on 4 5 employment in relation to Hydro projects. I think 6 that we should be -- we should be able to utilize other industries to train our -- our members and 7 through negotiations and -- and not just concentrating 8 9 deeply on with Manitoba Hydro. And I think that would be -- would expedite our members getting a 10 apprenticeship and getting their hours in different 11 12 fields of -- we're trying to provide employment. Not 13 just with -- to get them ready -- everything. 14 MR. BYRON WILLIAMS: I -- I thank you 15 for that. If we can turn -- and, again, I invite 16 members of the partners at any time to -- to jump in -17 - to -- to page 4 of the Deloitte report, Tab 1 of CAC 18 Exhibit 45-7. And, Ms. Kidd-Hantscher and Ms. Pachal, 19 you went through some of this with -- you can scroll 20 just a little bit, please, Diana. We went through 21 some of this with -- over the last couple of days. 22 But would I be correct in suggesting to 23 you that in terms of the pre-project training that two 24 thousand six hundred and seventy (2,670) individuals 25 participated -- two thousand and -- six hundred and

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4173 seventy (2,670) northern Aboriginal residents 1 participated in PPT? Would that be fair? 2 3 MS. SHAWNA PACHAL: That's fair. MR. BYRON WILLIAMS: And of that 4 5 number, one thousand eight hundred and seventy-six 6 (1,876) successfully completed at least one (1) 7 course. Would that be correct? 8 9 MS. SHAWNA PACHAL: Correct. 10 MR. BYRON WILLIAMS: And am I -- am I right in suggesting that courses can range in length, 11 12 some being a day to -- to four (4) days and some of 13 them a more extensive length, as well? 14 Would that be fair? 15 MS. SHAWNA PACHAL: Yeah, that's one 16 (1) of the challenges with the way we had to track the outcomes associated with it; again, partially due to 17 18 some of the restrictions we have with the Federal 19 Government and the system we had to track in. But 20 that's right, it could be -- I don't think there were 21 any one (1) day courses. I'm not a hundred percent 22 sure. But, you know, there could have been a week or 23 a month of a life skills course. And then there could 24 have been a four (4) year program of a journey person. 25 So, yeah, it -- but it's -- they're counted equally in

terms of completions. 1 2 Okay. And I'll MR. BYRON WILLIAMS: ask you to revisit the suggestion that you don't think 3 there were any one (1) day courses. I'm not asking 4 5 for an undertaking, but you'll --6 MS. SHAWNA PACHAL: I'll double check. 7 MR. BYRON WILLIAMS: -- you'll double 8 check that. And of the one thousand eight hundred and 9 seventy-six (1,876) individuals completing at least one (1) course, would I be correct in suggesting that 10 one hundred and eighty-nine (189) HNTEI participants 11 12 obtained employment at Wuskwatim? 13 MS. SHAWNA PACHAL: That's correct. 14 MR. BYRON WILLIAMS: It would be fair 15 to say that a number of those participants went back to their home communities and -- and obtained some 16 17 employment, as well? 18 Would that be correct? 19 MS. SHAWNA PACHAL: That's correct. 20 MR. BYRON WILLIAMS: Now --21 MS. SHAWNA PACHAL: Sixty percent, 22 actually. 23 MR. BYRON WILLIAMS: And it would also 24 be fair to say that twenty-seven (27) HNTEI trainees 25 obtained certi -- certification as journey women or

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4175 journey persons, correct? 1 2 MS. SHAWNA PACHAL: Correct. 3 MR. BYRON WILLIAMS: And I think I'm 4 going to stick with journey persons. That's working 5 for me. Now, just -- you'll note as well that 6 7 there were one hundred and forty (140) active apprentices at the -- participating in the HNTEI 8 program at the time that its funding concluded. 9 10 Would that be fair? 11 MS. SHAWNA PACHAL: Yeah, that's what the data shows, correct. 12 13 MR. BYRON WILLIAMS: And do we know 14 where those one hundred and forty (140) persons are --15 are now? Like does Hydro track them or ...? 16 MS. SHAWNA PACHAL: Well, we track them if they're working on our projects. And so if 17 18 they come back into our program, like onto one (1) of 19 our projects or into the -- the employ of Manitoba 20 Hydro, we ask them when they're -- and it's not a 21 perfect system because of, again, privacy issues -- we 22 ask them to identify if they were a HNTEI trainee. So 23 if they come back, we ask them to tick off a box to 24 say whether or not they were in the program. 25 So if they've come back to work on our

4176 projects with us we track that to the extent that we 1 can, and they self-declare. And the others, we -- we 2 do not have the ability to track. 3 MR. BYRON WILLIAMS: Has there been 4 5 any sort of outcome assessment to try and determine 6 whether they completed their journey to journey 7 person? 8 9 (BRIEF PAUSE) 10 11 MS. SHAWNA PACHAL: Not that I -- not 12 that I know of. And I'm also being told that there 13 were -- there were a couple instances where we had one (1) day courses in life skills, upgrading; and one (1) 14 15 of the -- one (1) of the things that often prevented people from getting employment was they didn't have a 16 driver's licence, so we actually did driver's 17 18 training. So the communities held driver's licence 19 training. 20 So they're one (1) day courses in those 21 three (3) categories. 22 MR. BYRON WILLIAMS: Okay. Turning to 23 page 6 of Deloitte. And if the panel's starting to 24 worry, we will move through Deloitte a lot quicker. 25 But scroll down towards the last paragraph, please.

4177 Ms. Kidd-Hantscher, just we had a bit 1 2 of this discussion towards the end of yesterday. But I'm correct in suggesting to you that, in terms of the 3 prediction in terms of how many -- the percentage of 4 5 apprentices who would be hired in the designated 6 trades, the original EIS prediction was about 20 7 percent. Would that be fair? 8 9 MS. JANE KIDD-HANTSCHER: We had a chance to go back and check the EIS prediction --10 11 MR. BYRON WILLIAMS: Yeah. 12 MS. JANE KIDD-HANTSCHER: -- from 13 yesterday and, unfortunately, there is a typo in the Deloitte Report. So Ms. -- I've got some information 14 15 that that sentence should read: This was below the EIS prediction, that 20 percent of all positions in 16 17 designated trades would be apprentices. 18 The Wuskwatim EIS was based strictly on 19 position predictions and person year predictions. And there's a definite distinction between a hire -- or 20 21 between hires and positions, because somebody could be 22 hired, you know, multiple times. So that's a key 23 point, and it's unfortunate we didn't catch it in our 24 review of the Deloitte report. 25 MR. BYRON WILLIAMS: In terms of the -

4178 - am -- am I correct in suggesting that in terms of 1 the hires of apprentices as a percentage of designated 2 trades, it turned out to be about just under 15 3 4 percent? 5 MS. JANE KIDD-HANTSCHER: So you're 6 looking the twenty forty (2,040) and the two ninety-7 seven (297), Mr. Williams, that -- yes, that'd be 15 percent, or just under. 8 9 MR. BYRON WILLIAMS: Okay. 10 MS. JANE KIDD-HANTSCHER: Yeah, the 11 first -- the first statement is -- is accurate --12 MR. BYRON WILLIAMS: Okay 13 MS. JANE KIDD-HANTSCHER: -- in terms 14 of actual results. 15 MR. BYRON WILLIAMS: Thank you. If we could turn to page 39 of CAC Exhibit 45-7. Page 39 is 16 17 marked in the bottom right-hand corner. And, Mr. 18 Chair, if I could be -- I just want to have a brief 19 discussion with -- in terms of what's on 20 electronically, and if I could just stand down for one (1) second. 21 22 23 (BRIEF PAUSE) 24 25

4179 MR. BYRON WILLIAMS: We were just 1 making sure that the entire electronic is in the 2 possession of the -- Diana. 3 If we scroll to the top of the page, 4 5 Ms. Kidd-Hantscher, at a high level you'll agree this 6 paragraph is discussing some of the barriers to 7 accessing training experienced by HNTEI participants. Would that be fair? 8 9 MS. JANE KIDD-HANTSCHER: That's fair. 10 MR. BYRON WILLIAMS: And some of those 11 barriers involved: access to childcare, transportation 12 logistics, and training location. 13 Agreed? 14 MS. JANE KIDD-HANTSCHER: Agreed. 15 MR. BYRON WILLIAMS: And in 16 particular, training location was a challenge in that it wasn't always possible to have training for the 17 18 designated trades offered in the community. 19 Would that be fair? 20 MS. SHAWNA PACHAL: Again, I think I 21 have to remind everyone that these initiatives, these 22 programs, were designed, developed, and implemented by 23 the communities. So you would need to ask the 24 community representative who are here with me about 25 that, so -- about those issues.

4180 1 MR. BYRON WILLIAMS: And I'll be happy to do that, but before I get there, does -- does 2 Manitoba Hydro disagree with the assertion by Deloitte 3 that there were some challenges in training for the 4 5 designated trades in that not all the courses for those could be offered in the communities? 6 7 MS. SHAWNA PACHAL: No, absolutely And when you recognize the size of the 8 not. 9 communities and the number of people in each community available to do a particular type of designated 10 training, it would be, from a cost perspective, to 11 bring in one (1) instructor for one (1) individual 12 13 would be cost prohibitive. So, I mean, it wouldn't 14 be, from a management or administrative perspective, 15 reasonable to do that. 16 So, for a number of instances, people 17 would have to come out to Red River Community College 18 or University College of the North, or -- so they'd 19 have to go to Thompson or Winnipeg in order to access 20 designated trades training. 21 In some instances, I -- thee was 22 designated trade training in the communities where 23 there were large enough groups. I think, in -- in terms of carpenters, in some instances there could be 24 25 some -- there was some training in the community. But

4181 in lots of instances there was -- the --the economics 1 weren't there to -- to do that in the -- in the 2 community. 3 4 MR. BYRON WILLIAMS: And certainly, to 5 Ms. Anderson or Mr. Bland, if there's anything you --6 you want to add on this point, I -- I invite you to --7 to speak up. MR. TED BLAND: Yes. 8 Shawna is 9 correct. We didn't have the -- in York Factory specifically, we didn't have the facilities to -- to 10 11 train a lot of our members in certain areas. We did 12 have people going out to Red River College to take 13 things like welding, or millwrights, you know, those -14 - those kinds of programs. But we did have the 15 interest. Shawna also mentioned that we were able 16 17 to run programs in our communities, things such as 18 construction, you know, operating, carpentry. We also 19 ran manage -- a management program in our community as 20 well. And that was business management and, you know, preparing our members to -- to take on those 21 22 responsibilities and roles in our direct negotiated 23 contracts. 24 MR. BYRON WILLIAMS: Thank you, Mr. 25 Bland. Ms. Anderson, I -- I know you had carpentry

4182 offered in -- as one (1) of the courses in -- in Fox 1 2 Lake. 3 Is that right? MS. KAREN ANDERSON: There were -- we 4 5 had several courses in the community itself, like, one 6 of them was the level 1, level 2 cook courses. And those were -- those were mainly female dominated. So 7 it was easier to have those in the community due to 8 9 child care and that. And we supported our trainees 10 with child care -- assisting them with child care. 11 We also had security courses done in 12 the community itself. I can't remember if we had the 13 actual carpentry course in the community. I know we had the skilled labour -- skilled labour, which 14 15 included those one (1) day courses like the -- such as 16 the WHMIS cha -- sorry, first aid and transportation 17 of dangerous goods, those types of things. 18 But I guess, for me, the one (1) area 19 that we required our trainees to get was those skilled 20 -- or the work experience to get their hours towards 21 different, like, carpentry. I'll use that as an 22 We had some of our members go out of the example. 23 community, but there was -- there was when they left the community due to, you know, being on a student 24 25 allowance, being -- being transportation to the work

site itself and, you know, and moving to another
 community and living on a student allowance and just
 having those types of issues.

So the -- that's where part of the life 4 5 skills training come in, like, what to expect when you 6 leave the reserve or the community and move to a 7 larger centre. And, of course, like I'm always mentioning that there's always another issue which is 8 9 -- which is prevalent, I find, in the mainstream is 10 the racism. And that is always another barrier that our members, you know, experience even today. So 11 12 those types of things make it a little bit harder for 13 them to get the work experience outside of the 14 community, so. Thank you.

15 MR. BYRON WILLIAMS: And one (1) last 16 question to each, Ms. Anderson and -- and Mr. Bland. 17 Ms. Anderson, would it be fair to say 18 that there was some disappointment that more community 19 members were not able to complete training in the 20 designated trades through HNTEI? 21 MS. KAREN ANDERSON: I think from the 22 people who showed interest in it, yes. I think, you 23 know, when you come on -- when you take the training 24 near the end of the whole program that's when the --25 you know, when you run out of time is -- is -- was the

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4184 disappointment that there was no more funding to 1 complete what they wanted to complete, you know, to 2 get through all their levels to get the designation, 3 That's -- that's the area, I think, when -- when 4 ves. 5 they started at near the end of the program. Thanks. 6 MR. BYRON WILLIAMS: Okay. Thank you. And, Mr. Bland, the same question to you. I can 7 repeat it, or if you... 8 9 MR. TED BLAND: I think when we were 10 developing our plan Shawna -- Shawna pointed out, the 11 First Nation members looked at what was important. 12 And for York Factory we focussed on what were our 13 direct negotiated contracts. In our case, we had the 14 security training; we had catering. But we also had 15 the employment retention contract which required a different skill. 16 17 So for those other opportunities that 18 became available, the focus was there. You know, the 19 rea -- the reality of being able to get into those 20 types of programs, you know, it -- it wasn't that 21 easy. You know, you -- you had to go out for it, of 22 course. As -- as Karen pointed out, being out in --23 away from your community for a lot of our members was 24 a difficult transition. 25 We did have some members go out and --

4185 and do the training but, again, the -- the interest 1 wasn't as high as we would have liked. And the 2 reality of it is, once the programs -- or once the 3 4 contracts that we have or the work opportunities that 5 we have with Keeyask or potentially Conawapa were 6 over, then, you know, it meant for members having to 7 leave the community to, you know, explore or look for work in their fields. 8 9 MR. BYRON WILLIAMS: Thank -- thank 10 And, Mr. Spence, if you don't wis -- wish to you. answer this question that's fine, but I asked it of 11 12 your -- your colleagues. 13 Would it be fair to say that there was 14 some disappointment in your communities that more 15 community members were not able to complete their 16 training in the designated trades through HNTEI? 17 MR. VICTOR SPENCE: Disappointment, 18 And again, it has to do with the -- the yes. 19 contract, the timing, the schedules. It -- they're 20 there for a few months, but, you know, the number of 21 hours required to become an apprentice there's just 22 not the time. It's not available to them through the 23 opportunities that are there at the period during the 24 contracts. 25 MR. BYRON WILLIAMS: Thank you, Mr.

4186 I think a number of the answers have -- I was Spence. 1 going to go through the report in a bit more detail. 2 I -- I do want to turn to page 46 though. And --3 excuse me, yes, page 46 and scroll down to the --4 5 towards the bottom of the page. 6 And, Ms. Kidd-Hantscher, you'll agree with me that this table is a -- an assessment of -- by 7 Deloitte of the apprentice and journeyperson hires for 8 9 Wuskwatim, agreed? 10 MS. JANE KIDD-HANTSCHER: Yes. 11 MR. BYRON WILLIAMS: And what it 12 essentially breaks down -- breaks out is the number of 13 apprentice hires and then the relative percentage of hires that came from different sources including 14 15 northern Aboriginal, Manitoban, and outside of Manitoban. 16 17 Would that be generally correct? 18 MS. JANE KIDD-HANTSCHER: Yes 19 MR. BYRON WILLIAMS: And it does the 20 same for journeyperson hires as well, agreed? 21 MS. JANE KIDD-HANTSCHER: Yes. 22 MR. BYRON WILLIAMS: And if we look at 23 the breakdown of apprentice hires associated with 24 Wuskwatim, you'll agree with me that 20 percent were 25 related to northern Aboriginals, agreed?

4187 MS. JANE KIDD-HANTSCHER: 1 Agreed. 2 MR. BYRON WILLIAMS: Of the total of two hundred and ninety-seven (297) apprentices hired, 3 65 percent came from Manitoba. 4 5 Would that be fair? MS. JANE KIDD-HANTSCHER: 6 Yes. 7 MR. BYRON WILLIAMS: And when we look at the population outside of Manitoba, about 35 8 9 percent of apprentice hires came from outside of Manitoba, agreed? 10 11 MS. JANE KIDD-HANTSCHER: Agreed. 12 MR. BYRON WILLIAMS: Turning to the 13 journeyperson hires, Ms. Kidd-Hantscher, can we agree that in terms of northern Abor -- Aboriginals it was 5 14 15 percent? 16 MS. JANE KIDD-HANTSCHER: Yes. 17 MR. BYRON WILLIAMS: And in terms of 18 Manitobans it was 52 percent? 19 MS. JANE KIDD-HANTSCHER: Yes. MR. BYRON WILLIAMS: And when we look 20 21 to the population outside of Manitoba of journeyperson 22 hires it was 48 percent? 23 MS. JANE KIDD-HANTSCHER: Yes. 24 MR. BYRON WILLIAMS: And, Dr. Shaffer, 25 just back to you for a moment. And we -- and when we

4188 look at the journeyperson hires, in particular, we see 1 roughly a 50/50 split between Manitobans and outside 2 of Manitoba, close to that? 3 DR. MARVIN SHAFFER: 4 Yes. 5 MR. BYRON WILLIAMS: And recognizing 6 that the lar -- the largest single classification of positions for Keeyask, you'll agree with me that the -7 - when we look at Keeyask, the largest single 8 9 percentage of hires will be in that designated trades 10 category? 11 DR. MARVIN SHAFFER: I believe that's 12 correct. 13 MR. BYRON WILLIAMS: And when we look 14 at the kind of relative percentage of journeyperson 15 hires, that again may be -- from Wuskwatim that may be one (1) of the sources for caution in terms of 16 estimating the journeyperson hires from within 17 18 Manitoba as compared to outside of Manitoba looking 19 towards Keeyask. 20 Would that be fair? 21 DR. MARVIN SHAFFER: I -- I can't say that we looked at this specific information, but 22 23 talking with the experts, I'm sure they took that into 24 account. 25 MR. BYRON WILLIAMS: Thank you.

4189 DR. MARVIN SHAFFER: And that is 1 broadly consistent -- somewhat -- we're -- we're even 2 a bit more conservative than that, but -- in the 3 analysis that we did --4 5 MR. BYRON WILLIAMS: Okay. 6 DR. MARVIN SHAFFER: -- but broadly consistent. 7 8 MR. BYRON WILLIAMS: And flipping very 9 quickly to page 49 of Deloitte, Ms. Kidd-Hantscher, you'll see Table 10 presents some key findings for the 10 11 pre-program training. 12 Do you see that? 13 MS. JANE KIDD-HANTSCHER: Yes. 14 MR. BYRON WILLIAMS: And I'm not going 15 to take the panel through it but you'll agree with me 16 that this would be a useful cheat sheet if you're trying to get a sense of the conclusions of Deloitte 17 18 with regard to the pre-project training? Would that be fair? 19 20 MS. JANE KIDD-HANTSCHER: Yes, this in 21 combination with the executive summary would be very 22 helpful. 23 MR. BYRON WILLIAMS: If we could turn 24 to page 71 of the electronic version. And again, this 25 is CAC Exhibit 45-7 of the Deloitte Report. And under

4190 Section 4.24, we'll stop right there, thank you, we 1 see a quick overview of a comparison of Wuskwatim to -2 - to Limestone, Ms. Kidd-Hantscher. 3 Is that correct? 4 5 MS. JANE KIDD-HANTSCHER: The 6 narrative or the chart, sorry? 7 MR. BYRON WILLIAMS: The narrative. MS. JANE KIDD-HANTSCHER: 8 The narrative, yes. 9 10 MR. BYRON WILLIAMS: And when we look at the percentage of northern Aboriginal hires at --11 12 at Wuskwatim, you'll agree with me it was calculated 13 to be 28 percent, agreed? 14 MS. JANE KIDD-HANTSCHER: Yes. 15 MR. BYRON WILLIAMS: And as compared 16 to Limestone where it was -- the percentage of 17 northern Aboriginal hires was about 25 percent, 18 agreed? 19 MS. JANE KIDD-HANTSCHER: Agreed. 20 MR. BYRON WILLIAMS: When we look at the turnover rates on Wuskwatim for northern 21 22 Aboriginals, you'll agree with me, it was 41 percent 23 as compared to 50 percent on Limestone? 24 MS. JANE KIDD-HANTSCHER: Yes. 25 MR. BYRON WILLIAMS: And that would be

4191 a reflection, in part, of some of the services that 1 you -- you spoke of in terms of working to -- once 2 people -- men and women got in the door, trying to --3 to make the labour force -- that position -- helping 4 5 to -- hoping to keep them to stay in the position for 6 a longer period of time? 7 MS. JANE KIDD-HANTSCHER: Yes, the various retention services and mechanisms that both 8 9 myself and Ms. Pachal spoke of would -- we believe, would have had a positive influence on that number. 10 11 MR. BYRON WILLIAMS: And it would be -12 - Ms. Anderson spoke of this and -- and as did Mr. 13 Bland, you would expect there to be as we -- as we 14 move towards Keeyask as well ongoing challenges and 15 opportunities in -- in terms of turnovers? There are 16 particular barriers that northern Aboriginals have 17 faced in -- in -- with these projects. 18 Would that be fair? 19 (BRIEF PAUSE) 20 21 22 MR. BYRON WILLIAMS: And certainly if 23 the Keeyask partners want to speak up on this, please 24 -- please do. 25

4192 1 (BRIEF PAUSE) 2 3 MS. KAREN ANDERSON: Thank you. I quess for us are kind of double-edged. Like we're --4 5 we're fortunate that we live in the area, so there's opportunities for our members to come home sometimes 6 7 in the evenings, weekends. But at the same time, there are challenges due to, I guess for me, in how 8 9 the -- the members are when they're hired, like what 10 type of classification or what type of level that they 11 are at. 12 That's the issue at times for me, that 13 they aren't provided, I quess, the comparable wage to other skill workers, and they do have those skills. 14 15 And if you don't have a certificate from whoever is 16 the -- whoever is the certified person to provide that 17 training, then that's when their experience sometimes 18 is not taken into account. 19 So that -- that -- to me that's the 20 barrier there for -- for the employment portion. 21 Earlier we were talking about barriers to training, 22 Thank you. so. 23 MR. BYRON WILLIAMS: Mr. Spence or Mr. 24 Bland, please, feel free to chip in. 25 MR. TED BLAND: I just wanted to talk

4193 about some of the -- some of the programs or 1 contracts, or one (1) of the contracts that we have to 2 help alleviate some of the barrier issues. 3 Most of the barrier issues, just so I 4 5 can point out, would be, you know, a lot of our 6 members are young, specifically from York Factory. We have a lot of twenty (20) -- twenty-one (21) year olds 7 to twenty (20) -- twenty-seven (27). I think we have 8 9 probably around a 80 or 90 percent rate. 10 So for them, it's -- it's pretty --11 it's different, you know, living a camp lifestyle is 12 something that you need adjusting to. But we also 13 have an unemployment retention worker that we have 14 hired out there, and we provide employment retention 15 services along with Fox -- Fox Lake, who is our 16 partner. 17 We have a manager that -- that runs the 18 It's an ERS manager. We also have a program. 19 cultural coordinator. And, you know, they -- they 20 bring a lot of the -- the services such as cultural -cultural sensitivity. You know, they -- they provide 21 22 workshops to members that are non Aboriginal, cultural 23 sensitivity workshops where they provide history of 24 the Keeyask project, and we talk about some of the 25 things such as our land, our medicines, and our water

and our traditional uses. 1 2 So in a sense that helps out our First Nation members, and these are all members that are 3 4 from our First Nations. They also provide counselling 5 services. So there's a bit of a -- you know, 6 something that helps them adjust to the program. And 7 this program is -- is fairly successful right now. 8 We also have an employment retention 9 worker who's there to help, you know, members -- not 10 only our First Nation members but members from any of 11 the communities in -- in Manitoba, or any -- any non 12 Aboriginals as well in -- in terms of conflict resolution. 13 14 If -- if there's issues that are happening with employers and -- and employees, you 15 16 know, they can come to our staff and, you know, ask for help. And we have people there that are trained 17 18 in conflict resolution to try and help alleviate some 19 of the stresses, or problems that are happening, or 20 occurring at work, or on the site itself. 21 We also work directly with one of 22 Hydro's liaison workers who's very helpful to our 23 staff that are -- that are working there. He always has a open ear for us, and he doesn't -- he doesn't 24 25 just leave us there. He'll try to accommodate what --

4195 what we need and, you know, if we need help doing 1 something then they're there to help us right away, 2 3 so. 4 These programs help out with our 5 membership quite a bit. You know, as I pointed out 6 there are barriers but we also have people that will help alleviate some of those problems. 7 8 MR. BYRON WILLIAMS: Mr. Bland, I'll -9 - I'll come back to you in a second and I'll acknowledge that I have three (3) of those twenty (20) 10 11 to twenty-seven (27) year olds in my family, too, so. 12 Mr. -- Mr. Spence, is there anything 13 you want to add, or... 14 MR. VICTOR SPENCE: In regards to our 15 experience, TCN's experience with ongoing training and 16 employment, that -- that, you know, there are 17 challenges, limitations. And generally the -- the 18 people, our -- our members that go to work in the camp 19 are satisfied with the accommodations and -- and the 20 running of the camp. I just made a couple of calls because I -- like I said earlier, I'm not directly 21 22 involved in employment and training, and I would like 23 to under -- take an undertaking to provide more 24 information to the NFAT -- to the Chairman, I guess --25 MR. BYRON WILLIAMS: So -- so Mr. --

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MR. VICTOR SPENCE: -- on -- on -- the 1 experiences in relations to employment and ongoing 2 jobs. However, the -- one (1) of the things that do 3 require to be looked at seriously by partners and 4 5 Manitoba Hydro jointly is the -- the funding of these 6 trainings. 7 My understanding is that training dollars have somewhat dried up which is an obstacle to 8 9 -- for -- for the -- the training, and that there are 10 means -- there are some discussions on that. But, you 11 know, again, I'll -- I'll have to provide the -- some 12 information and answers. 13 MR. BYRON WILLIAMS: And the -- I --14 I'll leave this to legal counsel, but I would say that we'll -- Mr. -- I don't think we need to make a formal 15 16 undertaking. We'll take Mr. Spence -- we understand 17 that he'll be coming back when he feels appropriate 18 with some more information in terms of the experience 19 in -- in the workplace. And we -- we look forward to 20 it. So unless you feel the need for a formal 21 undertaking, we -- we thank Mr. Spence for that. And 22 ___ 23 MR. SVEN HOMBACH: Mr. Williams, if I 24 may, just -- just to clarify in terms of coming back. 25 This is the last day currently scheduled for this

4197 panel. So I'd just like to get an understanding of --1 of --2 3 MR. BYRON WILLIAMS: What I -- I 4 certainly understand. Mr. Spence may choose to do it 5 in writing, or otherwise. I'll leave that to them, 6 so. 7 MR. DOUGLAS BEDFORD: It will be in No, I think Mr. Williams has fairly 8 writing. 9 characterized it as some further information that Mr. Spence, no doubt in consultation with other members of 10 his community, believes it important that the Public 11 12 Utilities Board have in hand. So it will be in 13 writing. It will be, as Mr. Spence said, providing further information about his community members' 14 15 experiences with jobs, and some of the challenges that 16 they currently face with respect to training. 17 Have I captured that, Mr. Spence? 18 Yeah. 19 MS. JANE KIDD-HANTSCHER: Mr. Williams, I'm not sure if you're switching topics or 20 21 not. So I just wanted to... 22 MR. BYRON WILLIAMS: I -- I'm -- I 23 just want to finish this -- this up, so I -- I am 24 coming back to you. 25 MS. JANE KIDD-HANTSCHER: I just --

4198 could I make a point, then, on -- while we're on this? 1 2 MR. BYRON WILLIAMS: Indeed. 3 MS. JANE KIDD-HANTSCHER: Then thank Because I think when we -- when we look at the 4 vou. 5 Deloitte report and we're -- we're looking at certain pages and certain details, in terms of turnover we're 6 7 talking about the difference from Limestone. But a real key -- a -- a couple of other key points is the 8 9 turnover rate for the project overall was 29 percent. 10 So, you know, if you just take 41 11 percent out of the air, abstract it, yeah, it seems 12 like a fairly high number. But when you compare it to 13 the overall turnover on the project it was, you know, 14 only a 12 percent differential. And in the newsletter 15 that you've now received a copy of, although it was a 16 couple of years ago, there's a -- one (1) of the articles that's in there talks about the duration of 17 18 employment for NCN members specifically on the 19 project. 20 And that at that point they were 21 tracking, actually, the longest of -- of duration. So 22 that's another key factor in terms of -- although by 23 the -- the Deloitte report indicates at the end that the average duration for northern Aboriginals was a 24 25 little bit less than the project average. It wasn't

4199 that far off and we can see illustratively in the 1 newsletter how well, you know, NCN did in that regard. 2 So I just wanted to add those couple of points. 3 4 5 6 CONTINUED BY MR. BYRON WILLIAMS: MR. BYRON WILLIAMS: Ms. Kidd-7 Hantscher, if you can turn with me to page 89 of the 8 9 report. I -- I wasn't going to go there, but just to 10 clarify. If we are going to look at the rate of 11 turnovers we would see that northern Aboriginal hires 12 are -- were almost -- close to twice as -- as much as 13 among non Aboriginals. 14 Would that be fair? 15 MS. JANE KIDD-HANTSCHER: Where are 16 you looking specifically, Mr. Williams? 17 MR. BYRON WILLIAMS: Section 4.4.3.2. 18 19 (BRIEF PAUSE) 20 21 MR. BYRON WILLIAMS: Do you see that, 22 Ms. Kidd? 23 MS. JANE KIDD-HANTSCHER: I do, and 24 that number's not aligning with another number I have 25 in front of me. So I'd like to be able to go back and

check that, please. 1 2 MR. BYRON WILLIAMS: And my simple point is that this would suggest, at least in the 3 Wuskwatim labour work -- workplace, that there were 4 5 significant barriers faced by northern Aboriginal hire 6 -- hires with a disproportionate impact in terms of their turnover rate. 7 8 You'll agree with me? 9 10 (BRIEF PAUSE) 11 12 MS. JANE KIDD-HANTSCHER: Sorry, I was 13 just reading to catch up. So could you just restate that, please? 14 15 MR. BYRON WILLIAMS: I'll suggest to 16 you that a comparison between the rate of turnover among northern Aboriginal hires versus non-Aboriginal 17 18 hires suggests disproportionate barriers at -- in the 19 labour market faced by northern Aboriginal hires, 20 resulting in disproportionate turnovers as compared to 21 the non-Aboriginal population. 22 Would that be fair? 23 MS. SHAWNA PACHAL: I don't -- I 24 actually don't think it's fair to characterize it 25 particularly that way. I think that there's no

question that northern Aboriginal people face 1 different challenges on a construction site. First of 2 all, they have to want to have to work on a 3 construction sit -- site. And as Mr. Bland mentioned, 4 5 a lot of them have never done that before. So they go 6 and they test that out and they realize that's not for 7 them. A lot of the other individuals who come 8 9 to the construction site have come from another construction site. They've worked in other parts of 10 the province or other places in Canada and they come 11 12 to those projects and they work on that construction 13 site as -- as people who have worked on construction sites their whole lives. 14 15 So I think that that's one (1) -- just to re-enforce what Mr. Bland said. And there is no 16 question, as well, that there's cultural differences 17 18 and cultural issues. You know, one (1) that's -- I've 19 been in this business for a long time now and it's --20 you know, I think it's so amazing and beautiful how in 21 the Aboriginal communities if somebody dies that's a 22 really important event. 23 You know, in -- in our culture we're 24 all fighting in our schedules to see if we can make it 25 to the funeral for an hour-and-a-half and get back to

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1 work. But that's not how it works for our partners or 2 other Aboriginal people. So there's significant 3 differences, or when they want to go on the land and 4 hunt, and fish, and trap. So there's completely 5 different issues that they face on a construction 6 site.

So on a construction site we work 7 sixteen (16) hours a day. Sometimes we go twenty-four 8 (24) hours a day in different shifts. And so for 9 those individuals to continue to practice the cultural 10 11 sort of -- in their experience life as they culturally 12 experience it and line up with the culture on a 13 construction site, it's completely different worlds. 14 And so I wouldn't say it's 15 disproportionate barriers. I would say they're different worlds and so there are different 16 challenges. And -- and Mr. Bland talked about a 17 18 number of the things that they've put on site. One of 19 the direct negotiated contracts, the Employment 20 Retention Support Services Contract, which is held by 21 York Factory and Fox Lake. And -- and Mr. Bland talked about all the things associated with that 22 23 contract. It's specifically there to try and deal with those cultural differences. 24 25 And we've tried to as well, because all

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4203 the managers and supervisors, and all employees must 1 have cultural awareness training on the projects so 2 that people become sensitized to some of these issues 3 and -- and can see if they can't structure some of 4 5 their work and leaves to accommodate Aboriginal people 6 on the project to go back home to attend funerals, and -- and to go back on the land to hunt, or trap, or 7 fish. 8 9 So barriers to me is -- is not the 10 right way to characterize it. 11 MR. BYRON WILLIAMS: Okay. Thank you. 12 Just one (1) last point before we leave Deloitte. Ms. 13 Kidd-Hantscher, you spoke of average duration of 14 employment. Do you recall that? Just a couple 15 minutes ago? 16 MS. JANE KIDD-HANTSCHER: Yes, I did. 17 MR. BYRON WILLIAMS: Can you turn to 18 page 70 of the Deloitte report. That's perfect there. 19 Ms. -- Ms. Kidd-Hantscher, do you -- does Manitoba 20 Hydro take issue with Deloitte's calculation of 21 average duration of employment? MS. JANE KIDD-HANTSCHER: 22 No. 23 MR. BYRON WILLIAMS: So what this 24 suggests is the project average was one hundred and 25 fifty (150) days?

MS. JANE KIDD-HANTSCHER: 1 Yes. 2 MR. BYRON WILLIAMS: Okay. 3 MS. JANE KIDD-HANTSCHER: I was just referencing the NCN newsletter specifically where that 4 5 time was speaking about NCN's average duration of 6 employment. MR. BYRON WILLIAMS: So if we're 7 looking at the -- the project average as compared to 8 9 northern Aboriginal or other Aboriginal, Manitoba 10 Hydro considers this to be an appropriate reflection 11 of that reality? MS. JANE KIDD-HANTSCHER: We consider 12 13 it accurate as reported by -- by Deloitte. 14 MR. BYRON WILLIAMS: Thank you. On to 15 a totally different topic, Mr. Chair and members of 16 the panel. 17 Dr. Shaffer, one (1) of the elements of 18 your analysis was you -- was looking at the net return 19 and other benefits for Manitoba Hydro's project 20 partners. 21 Would that be fair? 22 DR. MARVIN SHAFFER: It's a component 23 of the benefits. 24 MR. BYRON WILLIAMS: And obviously you 25 regarded this as providing insight into an important

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distributional consequence? 1 2 DR. MARVIN SHAFFER: That's correct. 3 MR. BYRON WILLIAMS: And I'll come 4 back to you in just a second. Ms. Pachal, I know that 5 Hydro was not a party to this agreement but I -- am I 6 correct in suggesting that NCN cur -- or the Nisichawayasihk Cree Nation currently has an 7 arrangement with the province in which it receives 8 9 about \$1 million in water rentals annually? 10 MS. JANE KIDD-HANTSCHER: Yes, they have an agreement with the province that we're -- as 11 12 you say, we're not a party to, and that number sounds 13 roughly in the range of what I believe they are receiving, or have been. 14 MR. BYRON WILLIAMS: To Manitoba 15 16 Hydro's knowledge, is any other First Nation on the 17 Nelson River or the Burntwood River currently in 18 receipt of water rental revenues from the province? 19 MS. SHAWNA PACHAL: No. However, 20 there is preliminary arrangements in place that, 21 again, Hydro is not party to between the Keeyask Cree 22 Nations and the province in the event that Keeyask did 23 proceed. 24 MR. BYRON WILLIAMS: And to Hydro or 25 the partners, if you feel able to answer, do you have

4206 any insight into the relative magnitude of the water 1 rental revenues that are anticipated in the 2 preliminary arrangements? 3 MS. SHAWNA PACHAL: 4 No. 5 MR. BYRON WILLIAMS: Dr. Shaffer, in 6 preparing your analysis were you aware that NCN was receiving a portion of the water rentals? 7 8 DR. MARVIN SHAFFER: No. No, it 9 wasn't particularly relevant to my analysis. 10 MR. BYRON WILLIAMS: Did your -- did 11 you contemplate in your analysis any ways to enrich 12 the distributional value of any of the plans through a 13 distribution of water rentals between the province and 14 ___ 15 DR. MARVIN SHAFFER: My -- my --16 MR. BYRON WILLIAMS: -- and the Cree 17 Nations? 18 DR. MARVIN SHAFFER: -- the scope of 19 my work was to assess alternative plans, not to assess 20 alternative policies that could affect the various 21 aspects of those plans, whether it be pursuing greater 22 employment within Manitoba or pursuing different 23 distributional aspects. I think the question was: 24 How -- what are the advantages and disadvantages to 25 the affected parties by the plans that -- that I was

investigating. 1 2 MR. BYRON WILLIAMS: So you were, in effect, assessing the plans as presented to you by 3 Manitoba Hydro. 4 5 Would that be fair, sir? DR. MARVIN SHAFFER: 6 Yes. 7 MR. BYRON WILLIAMS: You did not go outside the scope of that engagement to examine ways 8 9 in which the distributional benefits of any of the particular plans could be enhanced? 10 11 DR. MARVIN SHAFFER: No. There's a 12 variety of ways -- you know, you could look at this 13 from a policy point of view and say how you could do things differently, but that wasn't my -- my job. 14 And 15 I say that not just with respect to distribution but 16 with respect to -- to all of the consequences. 17 MR. BYRON WILLIAMS: But certainly you 18 were limited in your scope in terms of the 19 conceptualization of the plans as presented by Manitoba Hydro; agreed? 20 DR. MARVIN SHAFFER: Yes. 21 That --22 that was the purpose of my work. 23 MR. BYRON WILLIAMS: And so you would 24 not, for example, have -- have looked at a way to 25 buttress some of the other plans as compared to the

4208 Preferred Plan by looking at enhancing them through a 1 distribu -- distribution of water rentals from the 2 Province back to First Nations on the Nelson or 3 Burntwood Rivers. 4 5 Would that be fair? DR. MARVIN SHAFFER: That -- that's 6 correct. I looked at the plans as a -- as they 7 represented and the policies of the government as we 8 9 know them, not -- not as they could be in -- in a 10 different policy environment. 11 MR. BYRON WILLIAMS: And the -- the 12 element of those plans were those as set for you by 13 Hydro, correct? 14 That's correct, DR. MARVIN SHAFFER: and that have been set out for -- for the NFAT panel 15 16 in this hearing. 17 MR. BYRON WILLIAMS: So would it be 18 accurate to suggest to you that you did not examine 19 ways to enrich the distributional value of any of the 20 planned -- plans through heightened investment in 21 energy efficiency in northern and remote First Nations 22 and other indigenous communities? 23 DR. MARVIN SHAFFER: Yes, I didn't 24 look at that project like that. 25 MR. ED WOJCZYNSKI: I would like to

add to that. That I -- I'm involved in and I'm 1 chairing an international working group on project 2 affected peoples. And the particular focus is 3 indigenous peoples and it's related to concepts like 4 5 free prior and informed consent and distribution of 6 benefits, consultation on project processes. And there's a lot of discussion 7 internationally on benefit sharing and how it's best 8 done. And aside from the fact that Canada's one of 9 the leaders in the world, I think another comment I 10 11 would make is that, if you look generally around the 12 world, from what I can see, the two (2) general 13 approaches are the people who are in the area of the project. And by "the area," I -- I mean relatively 14 close affinity, there's a direct benefit sharing. 15 16 But the other way of having benefit 17 sharing to people in the broader regional context is 18 through the government of that context. And so this 19 is coming right back to the whole issue we've been 20 talking about of the transfers to the province, 21 whether it's water rentals, debt guarantee fee, or 22 capital tax. That those provisions of transfers to 23 the province, and that's done in other provinces as 24 well, that it's through those provisions there is a

25 benefit sharing through a greater jurisdiction than

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4210 just the -- the local community. Thank you. 1 2 MR. BYRON WILLIAMS: Just certainly if anyone from -- Mr. Bland or Ms. Anderson or Mr. 3 Spence, if -- if you have any comments on the concept 4 5 of revenue sharing of water rentals as a 6 distributional benefit to First Nations experiencing 7 the ongoing affects of current and future hydro 8 operations, please feel free to share them. 9 10 (BRIEF PAUSE) 11 12 MR. BYRON WILLIAMS: I'm not -- if you 13 -- if there's anything you'd like to share, if not, 14 that's fine. MS. KAREN ANDERSON: So at this time, 15 we're -- Fox Lake is not aware of the details of the 16 17 agreement yet, so that's all we can comment on. 18 MR. BYRON WILLIAMS: Fair enough. Mr. 19 Chair -- Mr. Spence or Mr. Bland, anything you'd like 20 to add? 21 MR. TED BLAND: Same for York Factory. 22 MR. BYRON WILLIAMS: Mr. Chair, this 23 is the hard part. I -- I've talked with my -- oh, 24 sorry, Mr. Spence. I didn't mean to cut you off. 25 MR. VICTOR SPENCE: No. TCN, no

comment at this time. 1 2 MR. BYRON WILLIAMS: Thank you. And I 3 apologize for interrupting you. Mr. Chair, I've just re-canvassed with 4 5 my colleagues. I think the time estimates they have 6 are accurate. And I -- I probably have about an hour 7 left. And I'm -- I'm at the panel's guidance. 8 Our client certainly thinks this is 9 important material that we'd -- we'd like to pursue. 10 I'm certainly prepared to come back at 12:30 or 11 whenever the panel -- or at one o'clock, whenever the 12 panel... THE CHAIRPERSON: I think that's 13 14 appropriate. But I think we would need to take forty-15 five (45) minutes today. So that would suggest to me 16 that we're back here about twenty (20) to 1:00? 17 MR. BYRON WILLIAMS: Thank you. 18 THE CHAIRPERSON: So let's recess and 19 back here at twenty (20) to 1:00. Thank you. 20 21 --- Upon recessing at 11:56 a.m. 22 --- Upon resuming at 12:42 p.m. 23 24 THE CHAIRPERSON: I believe we're 25 ready to resume the proceedings. The court reporter

1 has advised us that the -- there's some technical 2 issues that were encountered this morning and that 3 we'll have to repeat some of the testimony, so I will 4 be checking my notes against what I hear next round 5 and make sure that they align. But -- no, just 6 kidding.

7 Go ahead, Mr. Bedford, please. 8 MR. DOUGLAS BEDFORD: Well, I'd -- I 9 was going to tell you that the technical difficulty was that we lost Mr. Williams's entire cross-10 examination from this morning, and that I had 11 12 volunteered to summarize the meaningful parts of it. 13 However, what we've lost only took us about five (5) minutes this morning or less, so I will ask Ms. Pachal 14 15 to be -- begin this afternoon by responding to the one 16 (1) undertaking that she responded to this morning. And then we'll turn to Mr. Wojczynski and he assures 17 18 me he was more than five (5) minutes, so he will redo 19 the undertakings that he addressed this morning. 20 MS. SHAWNA PACHAL: I had the 21 undertaking to confirm that Manitoba Hydro has not 22 done a labour market analysis which broke down 23 construction jobs by roles, and if we did have a -- a 24 market -- labour market analysis to file that. And I 25 indicated that we did not complete a for -- formal

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4213 market analysis, but I did also indicate that we do 1 keep our finger on the pulse of what is happening in 2 the industry by various research that we do. 3 We also check into BuildForce Canada, 4 5 which used to be Construction Sector Council, labour 6 market forecast data. We have relationships with 7 other utilities and people in other industries who build large mega-projects; and so we're in touch with 8 9 them in terms of what some of the issues and trends are from a labour perspective. 10 11 And so we have a lot of work that we do 12 to keep, as I say, our finger on the pulse of that, but we have not done an official or formal labour 13 14 market analysis. 15 MR. ED WOJCZYNSKI: So my first 16 undertaking -- all my undertakings are from yest -are from -- the first three (3) are from yesterday. 17 18 The first one (1) was related to 19 employment, as well. And that was I was asked whether 20 we could provide an updated estimate of the expected 21 labour force and employment at Keeyask, recognizing that with the higher capital cost estimate we now have 22 23 with Keeyask, and if we use -- let's say on the 24 reference estimate, if we use -- if the actual costs 25 are as high as the estimate, including using the

4214 labour productivity, that that means that the labour -1 - total number of labour hours would also increase, 2 can we give an estimate of that. 3 And the answer is we can't at this 4 5 point 'cause we need more detailed information on how 6 much of that came from increased labour, and how much from increased costs for commodities or equipment like 7 cement. You know, if cement costs are higher, or 8 9 we're using more cement, that isn't a labour -directly a labour issue, and that was part -- would be 10 part of the reason the costs went up. But we know 11 12 that the employment in that case would be higher, or 13 the numbers would be higher. 14 The second undertaking was: Given that 15 the numbers would be higher do we -- and we have 16 better information now than a year ago, or two (2) 17 years ago, would we have any reason to think that the 18 ratios of the employment categories would change. And 19 we have no reason to think those ratios would change. 20 So that was the second undertaking. 21 The third undertaking was related to 22 fish passage, and on that one I report that we -- in 23 the cost estimate for Keeyask, we have no explicit 24 number in it for building a fish passage, a physical 25 fish passage like a concrete and steel kind of

1 facility.

2 What we do have in it is -- are two (2) things: One (1) is a \$3.7 million which is based on 3 doing a capture and truck facility -- not a facility, 4 5 activity as part of the monitoring and research. And 6 that would be to confirm that -- the understanding 7 that is there now, that we will not need a fish passage of any kind. And that's an understanding DFO, 8 9 Manitoba -- Conservation and Water Stewardship of 10 Manitoba Hydro have, and the partners, based on the 11 biology and all the work we've been doing, that --12 that collectively the view is that we will not need a 13 fish passage at Keeyask, and the 3.7 million would be 14 a monitoring research program to confirm that's 15 correct. 16 If it's not correct and we are wrong, 17 and we needed to build some sort of fish passage kind 18 of facility, one (1) option would be -- as you 19 remember from the MNP report the other day, there are

20 a range of options for fish passage. One (1) of the 21 options would be a cap -- a permanent facility for 22 capture and truck, where you capture sturgeon or other 23 fish, and then physically move them upstream somewhere 24 else. And that would be, let's just say, something in 25 the order of \$10 million. That kind of cost increase

4216 would be encompassed by the fact we have a systemic 1 risk in -- included now in our cost estimate, and this 2 would be the kind of thing and the kind of quantity 3 that would be covered. 4 5 If you had a full scale major large fish passage, then -- which is extremely unlikely and 6 we don't think would be required, but if it did that 7 would be a scope change, and that's not in the 8 contingency, or the -- or the reserves. 9 But the 10 important thing is we -- nobody who's involved in this 11 in a major way believes that one is needed or 12 appropriate. So that was the third undertaking. The fourth issue is we had two (2) 13 14 exhibits that we introduced this morning. It's 104-8 15 and 104-9, and as I'd indicated this morning, this is in a series of -- of exhibits that are all numbered 16 17 104. And Ms. Flynn has had a series of these, and --18 and what we've chosen to do for the ease of everybody 19 in this room, and particularly the panel, is that we have all these updates of the -- of the new economic 20 information and the documentation of that on Exhibit 21 104. So this is numbers 8 and 9. 22 23 Number 8 I will go through briefly. 24 And -- and I'll -- I -- I can't swear I'm going to say 25 exactly the same things I said this morning but it

4217 will be essentially the same. I -- I tend not to use 1 written notes. I tend to do everything 2 extemporaneously, so it's kind of fluid, but you will 3 see the truth is all there -- truth, pardon me, my 4 5 view of the truth. 6 First of all, what this is, Exhibit 7 104-8, it starts off -- I'm not going to go through it in detail. It provides some of the updated 8 9 information in the new analyses and the new capital 10 cost, the probabilities. I -- I won't repeat all of 11 that. And -- and someone has very helpfully put up 12 the exhibit already. 13 The main piece of new information is 14 this quilt that has been updated in a number of ways. 15 As Ms. Flynn has already indicated earlier, we've 16 updated the 2012 quilt with the new Keeyask and 17 Conawapa capital costs. And in addition to that, we 18 have revised the probabilities so that the ref/ref/ref 19 has -- it's more centred around ref/ref/ref now because we have more confidence in -- in the 20 information we have. The high has a lower probability 21 22 now than it did previously. 23 And we've also updated the methodology 24 to change how common factors are treated. And that 25 enhances how the quilt treats the upside benefits and

4218 the downside risks. And so I think everybody agrees 1 that this is an enhanced approach. 2 3 What this quilt does in addition to 4 what Ms. Quilt -- Ms. Quilt -- Ms. Flynn did before 5 was add Plans 6 and 12, which are the 750 megawatt 6 interconnection plans without the WPS sale. It has Keeyask/Gas31 and Keeyask/Conawapa31, which Mr. 7 Williams enjoyed crossing me on this morning. And --8 9 and you have the expected values and the ref/refs in here. And I won't run through these numbers. 10 11 The other thing that is new in here is 12 we have removed from the WPS plans the investment by 13 WPS in the transmission, so -- which reduces the 14 benefits from the WPS plans. And now this represents 15 our best information today on the WPS sale in terms of 16 investment on Keeyask/Conawapa cost estimates. And this fulfills a number of requests earlier. 17 18 There's also the quilts provided in 19 here which I'm not going to go through -- not the 20 quilts, my apologies, the S-curves. I don't think we 21 have time to go through those again. 22 23 --- EXHIBIT NO. MH-104-8: Response to Undertaking 27 24 25 MR. ED WOJCZYNSKI: And the next

4219 Exhibit, number 9, provides in detail the cashflows 1 for each of the twenty-seven (27) scenarios for each 2 of four (4) plans, so a hundred and eight (108) new 3 tables which are providing the -- the mo -- the 4 5 updated information. 6 7 --- EXHIBIT NO. MH-104-9: Economic summary tables 8 9 MR. ED WOJCZYNSKI: I think one (1) 10 other thing I did comment on this morning, and just to make sure I cover the same ground, is that by now 11 12 providing 6 and 12, we have the full suite of plans 13 associated with the Preferred Plan. In other words, assuming we start with the Preferred Plan number 14 14 15 and depending on how things evolve, if Conawapa 16 doesn't happen, doesn't proceed for whatever reason, but then we -- we do proceed still with the WPS sale, 17 18 then we have Plan 5. That was already there before, 19 but that leg associated with the Preferred Plan's 20 there. 21 On the other hand, if Conawapa doesn't proceed in the Preferred Plan and the WPS sale does 22 23 not proceed either because of Manitoba Hydro deciding 24 or because of WPS in that case, then we have Plan 6. 25 And then lastly, we may still be in a

4220 situation where the WPS sale doesn't happen, for some 1 reason, and we ultimately do decide to proceed with 2 Conawapa at 2031, so that's right now the full suite 3 of Preferred Plans available to us with the new 4 5 capital cost. Thank you. 6 CONTINUED BY MR. BYRON WILLIAMS: 7 8 MR. BYRON WILLIAMS: Yes, good 9 afternoon, members of the panel, and of -- of the Hydro panel and -- and their partners. Just to ease 10 my -- my hysteria, I'm assuming my cross-examination 11 12 this morning was -- was captured? Or more 13 importantly, Hydro's answers, and the partner's 14 answers? I -- I'm seeing a thumbs up, so. Mr. Wojczynski, I always enjoy talking with you, but I 15 16 would have dreaded repeating that conversation. 17 I wonder if we can turn to Manitoba 18 Hydro Exhibit 129-7, page 3. 19 (BRIEF PAUSE) 20 21 22 MR. BYRON WILLIAMS: I think 1 -- yes, 23 that's the page. Mr. Wojczynski, this seems like an apt followup to the exhibit filed this morning. And -24 - and first of all, please pass on from our client our 25

4221 appreciation to the extremely hardworking staff at 1 Manitoba Hydro and the inclusion of Plan 6 is very 2 appreciated. 3 4 MR. ED WOJCZYNSKI: You and everybody 5 else are most welcome. We're -- we're happy to get it 6 on the record. 7 MR. BYRON WILLIAMS: And what this does for us, sir, is compl -- compares three (3) 8 9 plans, being Plan 6, Plan 5, and Plan 14 with -- with the assumption being the 2014 DSM Level 2. 10 11 Would that be fair, sir? 12 MR. ED WOJCZYNSKI: Maybe we'll have another series of "yes." Yes. 13 14 MR. BYRON WILLIAMS: And -- and just 15 so we understand what Plan 6 involves, this is Keeyask 16 in -- being initiated in 2019, Gas in the year 2040, a 750 megawatt inter -- interconnection and no WPS sale. 17 18 Would that be correct, sir? 19 MR. ED WOJCZYNSKI: Yes. 20 MR. BYRON WILLIAMS: And again, we can 21 see the descriptions both for Plan 5 and Plan 14. And 22 you'll agree with me that they both include a WPS 23 sale. 24 Would that be fair, sir? 25 MR. ED WOJCZYNSKI: Yes.

MR. BYRON WILLIAMS: And I am correct 1 in assuming that both Plans 5 and 14 exclude the WPS 2 investment in US transmissions, sir? 3 MR. ED WOJCZYNSKI: 4 Yes. 5 MR. BYRON WILLIAMS: And --6 MR. ED WOJCZYNSKI: And what they don't include, and I hesitate to mention it, but 7 seeing as we're going to be drilling into them, 8 9 there's actually some 30 million or so dollars of benefits from the enhanced revenues that are not in 10 11 those right now. 12 But we don't want to do another round 13 of new numbers, so I mention it and just put it aside. It's -- it's 30 million out of 400 million is not 14 15 going to drive any answers, but it's just a -- a small 16 tweak that wasn't possible to get in here yet. 17 MR. BYRON WILLIAMS: And that's fine. 18 And just so I understand it, sir, that 30 million in additional revenues would affect Plans 5 and 14. 19 20 Would that be fair? 21 MR. ED WOJCZYNSKI: Yes. 22 MR. BYRON WILLIAMS: But not Plan 6? 23 MR. ED WOJCZYNSKI: That's correct. 24 MR. BYRON WILLIAMS: Sir, when we --25 when we look at the NPV and at this discount rate, and

4223 this assumed DSM scenario, it would be fair to observe 1 that Plan 6 and 5 are competing fairly closely? 2 3 MR. ED WOJCZYNSKI: Yes. MR. BYRON WILLIAMS: And I will not 4 5 use the word 'dominate' for the purposes of this 6 discussion. But in terms of NP -- NPV, this discount rate and this DSM scenario, they are quite a bit 7 stronger relatively than Plan 14. 8 9 Would that be fair? 10 MR. ED WOJCZYNSKI: Yes, 5 and 6 are, as you put it, stronger than 14 in this scenario, 11 12 using this metric. And I would just briefly mention 13 and remind everybody that all of this analysis and the 14 one I just presented as an exhibit and a lot of the 15 discussion we had this morning does not include the --16 the embedded return on equity, the capital tax, water 17 rental, and debt guarantee fee which would reverse 18 that and the Preferred Plan would look better than the 19 others. 20 But the starting point for all of those 21 is always the -- the corporate evaluation which is 22 what we're focussing on now. So I will restrict my 23 answers to that as long as we all keep that context 24 that there's a broader metric that recognizes the 25 other perspectives that we need to include in our

final decision-making. 1 2 MR. BYRON WILLIAMS: And --MR. ED WOJCZYNSKI: I won't repeat 3 that every time I give an answer. 4 5 MR. BYRON WILLIAMS: -- fair enough --6 and it would be fair to say that you and I, in terms of the embedded equity discussion, have agreed to put 7 that off to April the 4th in -- in the interest of 8 9 saving time, sir. 10 Would that be fair? 11 MR. ED WOJCZYNSKI: Yes, and for the 12 record, we agreed that for the efficiency of this 13 process, we will not get into tho -- that in this 14 discussion today, and on the 4th when we come back and 15 I'll -- Manitoba Hydro will also endeavour to provide 16 on some additional plans, the same water rental 17 capital tax embedded return on some of the other plans 18 -- not every single plan, but on some of the other 19 plans. 20 MR. BYRON WILLIAMS: Thank you for that. Just before we leave this slide and with all 21 22 your ca -- caveats or additional insights - keeping 23 those in mind - you did not perform this analysis for 24 Plan 12, sir? 25 I'm not asking you to, but I'm just...

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1 MR. ED WOJCZYNSKI: No. 2 MR. BYRON WILLIAMS: And if you're willing to venture a -- a bit of speculation with me, 3 sir, would it be fair to expect that in terms of NPV 4 5 at this discount rate and this assumed DSM scenario, 6 you would expect Plan 12 to be quite competitive with the Hydro Preferred Plan? 7 8 MR. ED WOJCZYNSKI: Could you repeat 9 your question? I was getting out the other exhibit 10 while you were doing that, and I realized I may not 11 have heard your full question. 12 MR. BYRON WILLIAMS: I'm getting 13 tired, sir; I'm sure you are as well, so I'll try and 14 repeat it. But would it be -- would it be fair to 15 anticipate, without doing the analysis, but that in terms of NPV at this discount rate and this assumed 16 DSM sce -- scenario, that we would expect Plan 12 to 17 18 be relatively competitive with the Hydro Preferred 19 Plan? 20 MR. ED WOJCZYNSKI: Sorry, when you 21 say "relatively competitive," I interpret that to mean 22 roughly equal and in that interpretation my judgment 23 is they would be very roughly competitive, but I -- I 24 -- we haven't done the runs to confirm that. 25 When I say "roughly competitive," say,

4226 within a hundred million dollars but I -- I can't 1 swear that that would be -- be the ultimate case. 2 3 MR. BYRON WILLIAMS: Fair enough, sir. 4 Thank you. Dr. Shaffer and Mr. Wojczynski, we will 5 come back to this a -- a bit later, but for -- for 6 now, Dr. Shaffer, in terms -- if I could ask you to turn to your Exhibit 129-6, page 8 would be a nice 7 page to start, and you have -- lovely. 8 9 Dr. -- Dr. Shaffer, this was your base 10 scenario as presented in the -- the Chapter 13 of the 11 NFAT business case. 12 Is that right, sir? 13 DR. MARVIN SHAFFER: Yes. 14 MR. BYRON WILLIAMS: And we'll move through this fairly quickly, and I'll just focus, for 15 16 the purposes of this discussion -- in terms of market valuation, you had the Preferred Development Plan 17 18 being Plan 14 as well as Plan 4 in a relative wash. 19 Would that be fair -- relatively close? 20 DR. MARVIN SHAFFER: Yes. 21 MR. BYRON WILLIAMS: With the Preferred Development Plan on the reference -- under 22 23 the reference scenario, out-performing both Plan 2, 24 the K22 Gas, and Plan 1, the All Gas. 25 Would that be fair, sir?

4227 DR. MARVIN SHAFFER: That's correct. 1 2 MR. BYRON WILLIAMS: And this was based upon 2012 assumptions? 3 DR. MARVIN SHAFFER: Yes. 4 The updated 5 evaluations is just later in this -- that same 6 exhibit. 7 MR. BYRON WILLIAMS: Yes, and we'll turn to that if we could, being slide 11. And this, 8 9 sir, is your updated evaluation for capital cost 10 sensitivity. 11 Is that fair, sir? 12 DR. MARVIN SHAFFER: Yes, as -- as well as the exclusion of the WPS investment. 13 14 MR. BYRON WILLIAMS: Thank you. And -15 - and so what you -- you've told us is that you've put 16 in the most recent capital cost updates for Keeyask 17 and Conawapa, agreed? 18 DR. MARVIN SHAFFER: Yes. 19 MR. BYRON WILLIAMS: And you review -removed from Plan 14 the WPS investment in 20 21 transmission, correct? 22 DR. MARVIN SHAFFER: Yes. 23 MR. BYRON WILLIAMS: And just when I 24 look at this table, would it be accurate to say that, 25 except for the increase in capital costs and the

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4228 removal of the WPS investment, that slide 11 is based 1 on the 2012 planning assumption, sir? 2 3 DR. MARVIN SHAFFER: I believe that's 4 correct. 5 MR. ED WOJCZYNSKI: The 2012 6 assumptions with a 10 percent reduction in the export 7 prices. 8 MR. BYRON WILLIAMS: And -- and, of course, the discount -- count rate is 6 percent for 9 this analysis? 10 11 DR. MARVIN SHAFFER: Yes. It's --12 it's a higher discount rate. 13 MR. BYRON WILLIAMS: Now, Dr. Shaffer, 14 you probably heard it far too in length both this 15 morning and -- and this afternoon my discussion with 16 Mr. Wojczynski. And you'll recall hearing a discussion regarding the relative comparison between 17 18 Plan 5 and Plan 14. 19 Do you recall that, sir? 20 DR. MARVIN SHAFFER: Yes. MR. BYRON WILLIAMS: And we just had a 21 22 discussion, in fact, about a comparison between Plan 5 23 and Plan 14 under DSM scenario 2, agreed? 24 DR. MARVIN SHAFFER: Yes. 25 MR. BYRON WILLIAMS: And certainly in

4229 the context of that discussion, at -- looking at NPV 1 under those scenarios, we had Plan 5 outperforming 2 Plan 14, agreed? 3 DR. MARVIN SHAFFER: I believe that's 4 5 correct. 6 MR. BYRON WILLIAMS: Okay. Sir, my -so my question to you, sir, is: Plan 5 is not 7 included in the analysis that you present on this 8 page. Would I be correct? 9 10 DR. MARVIN SHAFFER: That's correct. 11 Plan 6 has similar features to it, but, yes. 12 MR. BYRON WILLIAMS: Would one 13 distinguishing characteristic between Plan 5 and Plan 6 be the WPS sale, sir? 14 DR. MARVIN SHAFFER: Yes. 15 16 MR. BYRON WILLIAMS: Sir, would you be 17 prepared by way of undertaking to reproduce this table 18 but including an analysis for Plan 5? 19 DR. MARVIN SHAFFER: I -- I would have to check if the market valuation data would be 20 21 available for that under the comparable assumptions as 22 all of the other plans in this analysis. 23 MR. ED WOJCZYNSKI: Subject to check, 24 they are. I have jumped in and made a statement, and 25 then being occasionally wrong. So I -- in this one,

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4230 I'm saying subject to check. But to facilitate this 1 discussion, I -- I believe they are. 2 3 MR. BYRON WILLIAMS: And so, Dr. Shaffer, on the assumption that the market valuation 4 5 data for Plan 5 is available, would you undertake to 6 reproduce this table taking that into account, sir? 7 DR. MARVIN SHAFFER: It might Yes. take until early next week to have it, but... 8 9 MR. BYRON WILLIAMS: That's fine. 10 Thank you. That is an undertaking. And I'll -- I'll 11 repeat the undertaking and ask Dr. Shaffer to confirm 12 it. 13 You are undertaking on -- on the 14 assumption that the -- the base material is available, 15 you will reproduce the capital cost sensitivity table found at slide 11 of Exhibit 129-6 to include a 16 17 comparative analysis of Plan 5? 18 DR. MARVIN SHAFFER: I will do that. 19 And if -- if it's helpful, I would, from the table, 20 delete Plan 4 since we all agreed it's not relevant, 21 it might be easier, but I can leave it in. I don't want to create an issue. 22 23 MR. BYRON WILLIAMS: I -- I would be 24 going too far to say that my client would agree with 25 that. Well, I understand your point in Hydro's

4231 position. Our client --1 2 DR. MARVIN SHAFFER: I -- I -- does it 3 ___ MR. BYRON WILLIAMS: Our client would 4 5 -- I apologize. I was getting a little excited. 6 DR. MARVIN SHAFFER: Okay. 7 MR. BYRON WILLIAMS: I'm sorry. 8 DR. MARVIN SHAFFER: Okay. I'll leave it as is. I'll throw in Plan 5. 9 10 MR. ED WOJCZYNSKI: Can I comment on 11 my earlier comment. I knew that I had to be careful. 12 What I'm confident we have is the market valuation information for Plan 5. We would also have the 13 14 government information. 15 What I -- the part that I'm not sure 16 about, just so we understand why I said what I said, was that there's the economy and the environment, and 17 18 that is the area where I have some concerns because 19 like we have the market valuation done, and it's fairly straightforward, to give him the cashflows for 20 21 that. 22 It's the doing those other adjustments 23 where you need to know all the labour, and do the 24 percentages of labour, and all those things; that's 25 the area, and also for the environment one. So that's

4232 why I'm hedging on whether -- it -- it's not all --1 automatically available. My concern is how long it 2 would take to generate that additional information. 3 So -- just so we understand that my -- my 4 5 qualification was not a trivial one. 6 MR. BYRON WILLIAMS: The undertaking is subject to that qualification, and Manitoba Hydro 7 and Dr. Shaffer will report back if they assume that 8 9 it -- if they believe they cannot complete that. 10 DR. MARVIN SHAFFER: Yes. 11 12 --- UNDERTAKING NO. 79: Manitoba Hydro to reproduce 13 the capital cost 14 sensitivity table found at 15 slide 11 of Exhibit 129-6 16 including a comparative 17 analysis of Plan 5 (subject 18 to Mr. Wojcznski's 19 qualification) 20 21 CONTINUED BY MR. BYRON WILLIAMS: 22 MR. BYRON WILLIAMS: Just very quickly 23 on this table, and -- and to make you happy, Dr. 24 Shaffer, I'm just going to focus on the 750 megawatt 25 interconnection plans for the -- and I just want to

4233 start with -- at the market valuation level. 1 2 There under your analysis we have Plan 6 as the bright shining star, and with Plans 12 and 3 Plans 4 being relatively competitive under market 4 5 valuation, sir? 6 DR. MARVIN SHAFFER: Yes. 7 MR. BYRON WILLIAMS: And when we get down to monetized net benefit, sir, your evidence 8 9 would be that the -- the results for Plan 6, 12, and 10 14 are quite similar, would that be fair? 11 DR. MARVIN SHAFFER: Yes. I -- I 12 would like to point out, however, and I've mentioned a 13 number of times but I think it's -- it's useful to be 14 clear. 15 In the analysis right from the outset 16 with the Preferred Development Plan we were -- we were conservative, and -- and I think it's useful to 17 18 understand -- understand that when you assess these 19 numbers, and -- and what we're looking at is relative 20 advantages and relative differences. 21 Differences in the reliability benefits 22 weren't taken into account even though 14 certainly 23 had advantages over the others, possibly less relative 24 to 6 and 12 than certainly the All Gas. We didn't --25 we -- we have been very conservative on the government

1 benefits, particularly with respect to the debt 2 guarantee fee and sales taxes embedded within the 3 project expenditures.

On the social cost of carbon, the 4 5 environment, we've taken a conservative approach in --6 in two (2) respects; the value that we put on avoided emissions within BC and the fact that we didn't value 7 the benefits of reduced emissions outside BC. And the 8 9 -- the bequest value which has to do with discounting which I'm happy noone is really happy to talk about, 10 but the fact of -- really, the weighting of -- of the 11 12 future assets remaining at the end of the period. 13 So I -- I did want to just qualify that 14 so we understand when we're reading these numbers not 15 to get too fixated. You have to read that, and also 16 understand both the qualitative aspects of that. 17 MR. BYRON WILLIAMS: And -- and, sir, 18 and I'm just mindful of time, I won't belabour it. 19 But in -- in terms of the environmental assessment, 20 for example, without going into great detail at that 21 point in time, in that analysis you did rely primarily 22 upon the analysis of -- of Manitoba Hydro and its 23 partners, agreed? And --24 DR. MARVIN SHAFFER: Yes. 25 MR. BYRON WILLIAMS: -- and, so you've

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not taken into account, for example -- and you --1 you've not been able to, any conclusions the Clean 2 Environment Commission might come to in terms of the 3 environmental analysis, that would be fair? 4 5 DR. MARVIN SHAFFER: Yes, though of 6 course when we're comparing 6, 12, and 14 certainly -well, 12 and 14 we're dealing with very similar 7 projects. That's a project, so the biophysical 8 9 aspects and social aspects would be the same though somewhat different in time. But -- and with respect 10 11 to 6 we still have Keeyask in the large --12 MR. BYRON WILLIAMS: But not Conawapa. 13 DR. MARVIN SHAFFER: But not Conawapa, 14 that's correct. 15 MR. BYRON WILLIAMS: Sir, you -- we 16 are not going to have a long conversation about 17 discount rates, you'll be happy to know. I do have a 18 methodological confirmation that I -- I need to get 19 for my consultant, Mr. Harper. 20 And I wonder if to short-circuit the 21 conversation we can go to your revised evidence 22 Chapter 13, page 64? 23 24 (BRIEF PAUSE) 25

DR. MARVIN SHAFFER: 1 Yes. 2 MR. BYRON WILLIAMS: And, Dr. Shaffer, I'm just going to refer you to the -- the first 3 paragraph, starting on line 3, where you see a 4 5 suggestion that in terms of the Hydro assets, their 2047 residual value was calculated at a real discount 6 7 rate of 5.05 percent, reflecting Manitoba Hydro's 8 weighted cost of capital. And its 2014 present value 9 was calculated with a 6 percent real dis -- discount rate, reflecting the weighted average social 10 11 opportunity cost. 12 Do you see that reference, sir? 13 DR. MARVIN SHAFFER: Yes. 14 MR. BYRON WILLIAMS: And this was a 15 bit hard for me to understand, but am I correct in 16 suggesting to you that in terms of the Hydro assets, 17 the benefits and costs anticipated after 2047 were 18 discounted back to 2047 using a discount rate of 5.05 19 percent to create a 2047 residual value which was then discounted to 2014 using 6 percent? 20 21 DR. MARVIN SHAFFER: That's correct. 22 And the rea -- the reason for that is I was using in 23 the market valuation Manitoba Hydro's cash flows, as well as Manitoba Hydro's estimate of the residual 24 25 value. And then I took all of that, as is fairly

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4237 common in benefit cost practice, and discounted it as 1 weighted average opportunity cost of capital. 2 3 MR. BYRON WILLIAMS: Am I correct for 4 the non-Hydro assets that you would have used a 5 discount rate of 6 percent throughout the period that 6 you had considered? 7 The non-Hydro DR. MARVIN SHAFFER: 8 assets? 9 MR. BYRON WILLIAMS: Yeah. 10 DR. MARVIN SHAFFER: I -- I'm not sure which assets you're referring to. 11 12 MR. BYRON WILLIAMS: Gas. 13 DR. MARVIN SHAFFER: I used --14 MR. BYRON WILLIAMS: So -- so -- just 15 so I understand, sir, and if I'm interrupting, I -- I 16 understand you did the -- this analysis employing the 17 5.05 percent discount rate for Hydro assets. 18 In terms of the other assets analyzed, 19 would you have -- for example, for the All Gas Plan 20 would you have used a 6 percent discount rate all the 21 way through? 22 DR. MARVIN SHAFFER: No, the -- the 23 residual asset value looked at the value of the assets to Manitoba Hydro in all of the plans. And they were 24 25 based on the projections beyond 2047 of -- of relative

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4238 costs that Manitoba would face and -- and revenues it 1 would receive. All of that was discounted back at 2 5.05. And then the differences between the All Gas 3 and the others were -- were used to identify the 4 5 relative asset value. 6 MR. BYRON WILLIAMS: Okay. And --7 DR. MARVIN SHAFFER: Residual asset value in that year, which then became my set of cash 8 9 flows, if you like, except that was a positive one at the end of the period for the Preferred and other --10 11 other plans. 12 MR. ED WOJCZYNSKI: Yes, in the economic evaluation we calculated the residual value 13 14 for the different assets all using the same 15 techniques. 16 MR. BYRON WILLIAMS: Okay. That's -and I had just misunderstood the reference. And I 17 18 thank you for that clarification. 19 Mr. Wojczynski, back to you for just a -- a moment. At Exhibit 129-7, slide 7... 20 21 22 (BRIEF PAUSE) 23 24 MR. BYRON WILLIAMS: Mr. Wojczynski, I 25 -- I know you've got this slide memorized, but you're

4239 discussing Pathway 5 and its potential implementation. 1 2 3 That ring a bell, sir? MR. ED WOJCZYNSKI: I dream about 4 5 Pathway 5. 6 MR. BYRON WILLIAMS: Um... MR. ED WOJCZYNSKI: I hate to say it, 7 all the other ones too. You do not want to have my 8 9 dreams. 10 MR. BYRON WILLIAMS: Your dreams are 11 unbiased then, sir. 12 MR. ED WOJCZYNSKI: I don't know if my 13 dreams are unbiased, but I take an engineering view of 14 all the plans. And I think my -- my views are not 15 biassed. 16 MR. BYRON WILLIAMS: Fair enough. You mention here at .4 that -- about the importance of 17 18 deciding by early 2018 if you're building Conawapa for 19 2026. 20 Fair enough? 21 MR. ED WOJCZYNSKI: Yes. 22 MR. BYRON WILLIAMS: And for my 23 client's understanding, it would be important to 24 clarify, are you talking about the Province deciding 25 after getting independent advice from a tribunal, such

as the Public Utilities Board? 1 2 Is that what you're discussing here, 3 sir? The decision on 4 MR. ED WOJCZYNSKI: 5 whether Conawapa proceeds in 2018, I'm sure will 6 involve many steps. What I -- I cannot -- and one (1) of those steps would involve Manitoba Hydro's planning 7 process, Manitoba Hydro's Executive Committee, 8 9 Manitoba Hydro's Board. And the provincial government 10 has to be involved one -- to approve it going forward, 11 and that involves the Treasury Board and everybody 12 else. 13 Whether or not the provincial 14 government at that time with the government of the day 15 decides to utilize an NFAT process, to advise it or not, is something Manitoba Hydro can't comment on and 16 17 certainly doesn't have any information at this time. 18 MR. BYRON WILLIAMS: And -- and that's 19 -- I'm just trying to get my head around, for my 20 client's benefit, sir, the implication of an 21 endorsement by the Public Utilities Board of Plan --22 or Pathway 5 if it, in its wisdom, chose to do so. 23 What you're suggesting to me and to my 24 client is that an endorsement of Pathway 5 might 25 involve a pathway where there wasn't any further need

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for an alternative analysis at a point in time when 1 more information relevant to the merits of Conawapa 2 was available? 3 4 MR. ED WOJCZYNSKI: Well, that's a 5 good question and deserves a good answer. And the 6 answer, and I think all the questions are good, but it's one that is not as obvious as some of the others, 7 so let me be careful in answering it. 8 9 First of all, Manitoba Hydro is quite aware that for a decision out in 2018 or the end of 10 2017, that whole timeframe, that given the 11 12 uncertainties that -- to have an unqualified 13 endorsement and that -- and let me exaggerate to make 14 the point, to say, no matter what happens, Conawapa 15 should proceed, and we agree that that is not 16 something Manitoba Hydro's asking for or looking for. 17 And -- but something that is more along 18 the line of -- if the trajectories of economics are 19 not significantly adverse compared to what we're 20 looking at and if some of the positive upsides happen 21 as we expect will happen with some of this additional sales and that -- then that it would be reasonable for 22 23 Conawapa to proceed. 24 I think something in that realm would 25 be what Manitoba Hydro would reasonably be looking for

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4242 this panel to be commenting on. We recognize, Mr. 1 Chair and panel, that given there are a few years to 2 go, a totally unqualified endorsement is -- is not 3 something that would be reasonable to -- to ask for. 4 5 But to give an indication of the 6 reasonability or proceeding in the more positive 7 portion of the -- the circumstances that happen and can happen in the future, I think would be something 8 that would be reasonable and -- and Manitoba Hydro is 9 10 looking for. 11 MR. BYRON WILLIAMS: Mr. Wojczynski, I 12 always think the best questions are the ones where you 13 say 'yes' or 'no', but that was actually a very 14 thoughtful answer and my client thanks you. 15 Mr. Wojczynski, have you had the 16 opportunity to read the evidence of Dr. Higgin on behalf of CAC (Manitoba), sir? 17 18 MR. ED WOJCZYNSKI: I have gone 19 through Dr. Higgin's, Dr. Harper, and a few other 20 thousand pages, and so I have read it. I have to tell 21 you I -- I couldn't right now repeat all the things 22 that are in there, but why don't we go down the road. 23 MR. BYRON WILLIAMS: Yeah, and would 24 only for a couple moments, sir. And obviously CAC 25 brings in independent experts and they -- it's not

4243 implicit that they will necessarily endorse everything 1 the independent experts bring forward. 2 You understand that? 3 MR. ED WOJCZYNSKI: 4 Yes. 5 MR. BYRON WILLIAMS: But, I'll -- I'll -- I'll try and refresh your memory and ask you to 6 accept, subject to check, that Dr. Higgin suggests 7 that if -- with the caveat, I guess, that the -- the 8 9 Keeyask would have to cle -- clear environmental 10 analysis; that if Keeyask did proceed, that the -- we 11 sho -- should, in -- in essence, almost hit a reset in 12 terms of the integrated resources planning and -- and 13 have Manitoba Hydro come in at a -- a later date to --14 through an NFAT process to justify its next preferred 15 step. 16 And I wonder if you have any comments 17 on the logistics or the merits of Dr. Higgin's 18 suggestion? 19 MR. ED WOJCZYNSKI: Well, first of all, I -- I do know and recall there is that school of 20 21 thought. Secondly, there's logistics and merits. 22 In terms of logistics, the first thing 23 one can talk about is timing. The current schedule we 24 have for Conawapa-2026 does not envisage a -- a -- at 25 least the schedule we've been working with does not

envisage another NFAT. That's not to say something 1 couldn't be done in that time frame, but -- and I'm --2 I'm going to be very respectful here, it's -- it's --3 and I'm not going to be -- it's not a complaint, it's 4 5 a statement of fact: Any public NFAT process that has 6 the quality and depth and intensity and wide-coverage 7 that we are engaged in here today is a -- is a major undertaking of time and resources for the Corporation 8 9 and for the others involved and could not just be 10 easily inserted in the current schedule we're working 11 with for 2026. So from a timing and logistical point 12 of view, I think that's quite pertinent. 13 Now, if Conawapa was done later, there's more time in the schedule and more room to do 14 15 such things, so that's -- that's, I think, a -- an 16 obvious fact, but one worth stating. 17 In terms of merit, I hesitate to say 18 much because a decision on whether or not such a 19 process should be undertaken is really a government 20 decision. A policy decision, as we all know, the 21 legislation does not require such a thing, whether 22 it's the PUB Act or the Manitoba Hydro Act, it's a --23 and an -- and governments of the -- the various

24 governments we've had, it's been a policy decision 25 when there are these major decisions that there be

some sort of process. 1 2 A difference in Conawapa compared to the previous Conawapa in 1990, compared to Wuskwatim 3 in 2004, compared to Limestone and D602F, the line --4 5 500 kV line going to Minneapolis twenty-five (25) 6 years ago was, that we did not have at that time any 7 prior assessment of an NFAT nature publically; whereas, in the case of this Conawapa, we will have 8 9 had the benefit of this process. So it is a -- is it a -- it is a different situation. 10 11 In terms of the suggestion of Dr. 12 Hibbin -- Higgins (sic) that we have a reset on the 13 integrated resource planning process, what I can say is that Manitoba Hydro certainly will be doing -- as 14 15 part of its ongoing resource planning process, will be 16 doing what one could call a reset -- t may not be exactly the reset Dr. Higgins referred to -- that we 17 18 will be, as we have discussed many a time, we will be 19 having our new DSN plans, our new export prices, the 20 results of the negotiations, everything else under the 21 sun, and we will be reassessing Conawapa annually in 22 the light of that. 23 I -- I should caution that it wouldn't 24 be this summer, because our whole schedule is going to 25 be running late, and this year's resource plan is

4246 really the NFAT process, and the outcome from the PUB 1 and the Government. So, we're really talking about 2 next year undertaking of another thorough evaluation. 3 So there will be updated planning done with --4 5 considering Conawapa, considering other options, 6 considering all the appropriate possibilities. 7 What process aside from the internal Manitoba Hydro process would be required, whether it's 8 9 a full scale NFAT, whether it's something less than 10 that, that -- that would have to be ultimately a government decision. And -- but it -- it would surely 11 12 take into account the fact that we've had this process 13 here at this point in time. 14 MR. BYRON WILLIAMS: Thank you. Ms. 15 Anderson, I want to take you back to your opening 16 statement on -- on day 1 of this presentation. And I 17 believe you your -- used words to the effect that: 18 "This is not to say as we testified, 19 for example, at this Commission's 20 hearing on Bipole III, that we 21 achieved all of our goals, or that 22 the terms of the limited partnership 23 or adverse effects agreement, are 24 fully consistent with all of the 25 things we might like to have had

4247 included, or for that matter, that 1 2 all of the potential impacts on our 3 lives will have been defended, mitigated, or compensated." 4 5 Ms. Anderson, do those words sound familiar? 6 7 8 (BRIEF PAUSE) 9 10 MS. KAREN ANDERSON: Yes. 11 MR. BYRON WILLIAMS: Could I ask you 12 to elaborate on the last part of that statement, that 13 you're -- you're not suggesting that all of the potential impacts on our lives will have been 14 defended, mitigated, or compensated. 15 16 Is there anything you wish to add to 17 that? 18 MS. KAREN ANDERSON: Yes, I'm just 19 looking for my -- my statement. 20 21 (BRIEF PAUSE) 22 23 MR. BYRON WILLIAMS: Ms. Anderson, if 24 you're -- if you're having trouble locating, I don't 25 have your statement but I do have a statement from Mr.

Neepen (phonetic) --1 2 MS. KAREN ANDERSON: Yeah. 3 MR. BYRON WILLIAMS: -- from the EIS, which is very similar, if that would help. 4 5 6 (BRIEF PAUSE) 7 8 MS. KAREN ANDERSON: Okay. So you 9 want me to elaborate on the last part of that 10 sentence? 11 MR. BYRON WILLIAMS: If you choose. MS. KAREN ANDERSON: So for the first 12 13 time, Fox Lake is a partner in this project. And --14 or in a project. I think -- that this is our first 15 experience, and going forward we have said that, you 16 know, the agreements were not fully perfect; they were negotiated. And in my statement I also said that 17 18 throughout the negotiations the negotiators -- you 19 know, they compromised on some areas, and they -- they won in some areas. 20 21 But going forward, like, we have the 22 ability in our agreements to make changes to our 23 programmings. But again, it's the first time we've 24 had this type of agreement and, you know, we're going 25 to learn from it.

4249 And we're going to take the -- the 1 opportunity to run the programs and then, you know, 2 monitor them to see if they're effective. And -- you 3 know, and it will be our choice to make changes to 4 5 those programs if needed, so I'm not saying that every 6 -- every situation can be mitigated or defended, 7 compensated. 8 Like every -- every member has their 9 own experience, and be it where they -- excuse me, be it their experience on the land or be it their 10 personal experience, so it's a collective -- the 11 12 agreement that was agreed to and was accepted by our -13 - our members. Thank you. 14 MR. BYRON WILLIAMS: Ms. Anderson, I'm 15 going to ask a couple follow-up questions to you, and 16 also to Mr. Bland. If -- Ms. Anderson, you -- you heard a conversation over the last couple days between 17 18 the Chair and Manitoba Hydro regarding transmission 19 lines and any agreements with affected communities. 20 Does your community, your First Nation, 21 have any perspective on whether transmission lines 22 impacting traditional lands should involve some sort 23 of agreement, whether adverse effects, or otherwise? 24 25 (BRIEF PAUSE)

4250 1 MS. KAREN ANDERSON: Sorry, could you just repeat that again? I just want to make sure I 2 heard it clear. 3 4 MR. BYRON WILLIAMS: I'm going to my 5 very best, Ms. Anderson, but -- there's been a 6 discussion over the last couple days in terms of transmission lines. 7 8 You -- you recall that, Ms. Anderson? 9 MS. KAREN ANDERSON: Yes. 10 MR. BYRON WILLIAMS: Does your First Nation have any perspective on whether transmission 11 12 lines impacting traditional lands should involve some 13 sort of agreement, whether adverse effects, or -- or 14 otherwise? 15 MS. KAREN ANDERSON: I think many of our members will be impacted by the transmission 16 lines. And as I -- you know, due to that they're 17 going to be losing a part of their resource area and 18 19 part of -- you know, destruction of their cultural 20 activities, their traditions. And, yeah, I believe 21 that -- that there should be some type of discussions 22 on the compensation of that loss. 23 MR. BYRON WILLIAMS: Thank you. Mr. 24 Bland, do you have anything you'd -- you'd like to 25 offer, sir?

I would say if -- it 1 MR. TED BLAND: 2 depends on what type of adverse effects it is. We are currently still in negotiation with Manitoba Hydro, so 3 we haven't been able to, you know, specifically 4 5 identify or come to an agreement on -- on anything specific yet, so. 6 7 MR. BYRON WILLIAMS: And, Mr. Bedford, I -- I don't see Mr. Spence. And -- and I -- I'm just 8 9 offering if -- if Mr. Spence wishes to response to that question, our client CAC (Manitoba), is inviting 10 11 him to if -- if he chooses to. Is -- you'll bring 12 that up with him and --13 MR. DOUGLAS BEDFORD: Thank you. I'11 14 followup with him at the break. Mr. Spence, I know, 15 has been dealing with an urgent family matter during 16 the night and for a period this morning, and I expect 17 that that's drawing his attention at the moment. And 18 I'm sure we'll -- all of us who are parents will know 19 that a father's first obligation is to his children. 20 MR. BYRON WILLIAMS: And -- and 21 certainly, Mr. Bedford, and Hydro, you understand I --22 I just wanted to make sure he had the opportunity to 23 respond. 24 25

CONTINUED BY MR. BYRON WILLIAMS: 1 MR. BYRON WILLIAMS: Just to finish 2 up, I have a couple more questions for Mr. Wojczynski 3 and Ms. Pachal. And then one (1) or two (2) questions 4 5 about shadow-pricing for you, Dr. Shaffer. 6 Just turning, if we could, to CAC 7 Exhibit 45-8, Tab 5, page 43. Ms. Pachal or Mr. 8 Wojczynski, whoever chooses to answer. Do you need a 9 moment? 10 11 (BRIEF PAUSE) 12 13 MR. BYRON WILLIAMS: I thought you 14 might have some notes. 15 16 (BRIEF PAUSE) 17 18 MR. BYRON WILLIAMS: Ms. Pachal, 19 you'll agree with me that -- or you'll agree that this is a -- an excerpt from the Bipole III report of the 20 Clean Environment Commission? 21 22 MS. SHAWNA PACHAL: Yes. 23 MR. BYRON WILLIAMS: And --24 recommending that Hydro, in cooperation with the 25 Manitoba government, conduct a regional cumulative

4253 effects assessment for all Hydro projects and 1 associated infrastructure in the Nelson River 2 watershed, agreed? 3 4 MS. SHAWNA PACHAL: Yeah, I think this 5 was covered extensively at the CEC and in the motions 6 prior to the CEC and throughout the CEC. So --7 MR. BYRON WILLIAMS: Yes. 8 MS. SHAWNA PACHAL: -- this is a topic 9 that has had significant discussion. 10 MR. BYRON WILLIAMS: Indeed. And the 11 recommendation, of course, of the Clean Environment 12 Commission was that it be undertaken prior to the 13 licensing of any additional projects, agreed? 14 MS. SHAWNA PACHAL: Agreed. 15 MR. BYRON WILLIAMS: And you were kind 16 enough in the course of the CEC proceeding to provide an update on the status of the work in terms of the 17 18 regional cumulative effects assessment. 19 You recall that? 20 MS. SHAWNA PACHAL: I do. 21 MR. BYRON WILLIAMS: And to -- to cut 22 to the chase, my recollection is, and I'll ask you to 23 confirm, that there was going to be a preliminary 24 baseline document provided at the midpoint of 2014, 25 and that a final document would be in play for October

4254 of 2015. 1 2 Was that your -- is that your recollection? 3 MS. SHAWNA PACHAL: Yes. 4 5 MR. BYRON WILLIAMS: And are we still 6 on that approximate schedule, Ms. Pachal? 7 MS. SHAWNA PACHAL: Yes. 8 MR. BYRON WILLIAMS: Mr. Brandson --9 I'll come back to you in a -- in a second. But, Mr. 10 Brandson, I have not asked you many questions, and I apologize for that. But, to your knowledge, has a 11 12 regional cumulative effects assessment been pre --13 previously undertaken in the Province of Manitoba at -14 - at this level? 15 MR. NORMAN BRANDSON: Not to my 16 knowledge, no. 17 MR. BYRON WILLIAMS: And, Mr. 18 Wojczynski, I have three (3) just follow-up questions 19 for you on this; or certainly Ms. Pachal. Whoever. 20 To Hydro's understanding, is it 21 proposed that there be a public independent review of 22 the regional cumulative effects assessment? 23 MS. SHAWNA PACHAL: As I explained at 24 the CEC, the -- a couple comments. First of all, the 25 regional cumulative effects assessment was -- is being

done cooperatively with Manitoba. We're underway 1 doing that. We expect, as Mr. Williams said, to have 2 the first phase done by June this year which will 3 provide us with all the studies and all the 4 5 information we've ever collected in terms of that 6 area, the study area. 7 We also don't anticipate for -- with respect to Keeyask that it is going to tell us 8 9 anything new, given that with Keeyask we did a regional cumulative effects assessment associated with 10 11 Keeyask. We considered all past projects and impacts, 12 and then the impact associated with Keeyask, and then 13 the impacts associated with adding on other projects 14 in that vicinity, Conawapa or portions of Bipole, et 15 cetera. 16 So we don't believe that there will be 17 any additional information that a regional cumulative 18 effects would -- assessment would provide us that we 19 don't already have for Keeyask. 20 MR. BYRON WILLIAMS: Okay. And -- and 21 we'll certainly -- may agree to disagree on -- on that 22 point, Ms. Pachal. But I believe my question was --23 MS. SHAWNA PACHAL: Yes, sorry, Mr. 24 Williams. And the second part, yeah, in terms of your 25 -- your question, is we do anticipate in Phase 2 some

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sort of process of having the material publically 1 reviewed. We're just working through the details with 2 that with the province of what does that look like and 3 who are the people reviewing it. And so that -- that 4 5 discussion is currently taking place. 6 But as you know, that's not due until 7 October 2015, and our main focus has been getting the first Phase 1 done by this June. 8 9 MR. BYRON WILLIAMS: And without in 10 any way wishing to be argumentative ... 11 MS. SHAWNA PACHAL: I'm glad you 12 didn't say that with a straight face because that 13 would have been very hard to not comment on. 14 MR. BYRON WILLIAMS: Mani -- Manitoba 15 Hydro's perspective is that a completed assessment is 16 not required prior to Keeyask licensing? 17 MS. SHAWNA PACHAL: Yeah, we believe 18 that there'd be nothing -- there'll be nothing 19 additional given that for the Keeyask assessment -environmental assessment, we did a cumulative effects 20 21 assessment of the region of all the historical past 22 effects, adding Keeyask into that; and then looking at what will come after Keeyask, potentially Conawapa and 23 parts of the Bipole, et cetera. So we've already done 24 25 that for this particular project.

So we do not believe it will provide us 1 with any additional information since we've already 2 done an extensive cumulative effects assessment, which 3 is what the CEC is in fact -- will be assessing. And 4 5 when they provide their report they'll be -- they'll 6 be commenting on that, I'm certain. 7 MR. BYRON WILLIAMS: Is there anything in the public domain from the Minister of Conservation 8 confirming that licensing for Kee -- Keeyask can 9 proceed in the absence of -- of the ongoing regional 10 11 cumulative effects assessment? 12 MS. SHAWNA PACHAL: Not to my 13 knowledge. 14 MR. BYRON WILLIAMS: Mr. Wojczynski, I 15 had all sorts of questions for you on lake sturgeon. 16 We're not going to have time to get to them, and I'm 17 sure we're both disappointed. 18 MR. ED WOJCZYNSKI: I actually love 19 lake sturgeon. I wouldn't -- I am disappointed. 20 MR. BYRON WILLIAMS: And I'm obsessed 21 with them, sir, as well, so that would have been fun. 22 Maybe we'll go out for a pop, or something, and -- and 23 have that -- that discussion offline. 24 And, Mr. Wojczynski, my client 25 understands Hydro's perspective on fish ways. We --

4258 we understand the position you're taking. What I'm 1 interested in --2 3 MR. ED WOJCZYNSKI: I -- I would have to add that it's not just Manitoba Hydro's position. 4 5 It's what Manitoba Hydro and the partners, and 6 Manitoba Conservation and Water Stewardship, and 7 Department of Fisheries Oceans (sic), scientists, and people responsible all agree after years of 8 discussion, investigation, modelling, and interaction, 9 including field studies. 10 11 So it -- it's just -- not just Manitoba 12 Hydro's position; it's a statement of -- of the 13 current status of where the various entities have 14 landed. 15 MR. BYRON WILLIAMS: Sir, there's 16 going to be an ongoing three (3) year study in terms 17 of these issues. 18 Would that be fair? 19 MR. ED WOJCZYNSKI: There will be 20 studies on sturgeon in the Lower Nelson River. On the 21 Keeyask area I would suggest much beyond three (3) 22 We have a twenty (20) year program with our years. 23 Cree partners and with Manitoba Conservation where 24 we'll be funding -- Manitoba Hydro is funding research, monitoring, public education programs, and 25

there will be various stewardship initiatives as 1 agreed amongst ourselves. 2 3 And, so it's -- I -- I would suggest 4 twenty (20) years as a starting point, and we expect 5 the populations will increase in that time. And at the end of the twenty (20) years we have a commitment 6 with our partners that if the populations -- if it 7 warrants, we will renew our commitment to go beyond 8 9 that. Thank you. 10 MR. BYRON WILLIAMS: Okay. And I'm 11 doing my best not to get into the -- the issues, sir. 12 In terms of the potential cost of a fish way, just if 13 we get there, sir -- and if you need a reference I'm 14 referring to page 353 of the technical conference, 15 sir. 16 MR. ED WOJCZYNSKI: I have it open. 17 You kindly gave me a heads-up, so I appreciate that. 18 MR. BYRON WILLIAMS: And then -- and -19 - and just so -- there's a bit of a conversation 20 there, and then if you can just refresh my memory, 21 but were the figures -- we'll come back to that 22 statement in a moment -- but were the figures used by 23 Meyers, Norris, and Penny a range between 12 and 50 24 million? 25 Does that ring a bell, sir?

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4260 1 MR. ED WOJCZYNSKI: It does, yes. 2 MR. BYRON WILLIAMS: And in the technical conference at page 353, Mr. -- at lines 14 3 to 15, Mr. Bowen is being -- offering a little broader 4 5 range, 1 to \$300 million range? 6 Do you see that, sir? MR. ED WOJCZYNSKI: Yes, as you would 7 suggest Mr. Bowen was speaking rather loosely based on 8 9 the broad range of possibilities. To be honest about 10 it, a physical fish passage to my -- unless you're 11 talking about a micro-dam we would never get one for 1 12 million. You -- you could get something that was a 13 very -- I'm trying to find -- a very basic minimal 14 capture and truck arrangement where someone goes out 15 in a 10 foot aluminum -- well, 12 -- 12 -- 14 foot 16 aluminum boat and catches the fish, and then puts it in his pickup truck. 17 18 But -- and the 300 million, there have 19 been worldwide fish passage arrangements that would have cost in that order. We have done a lot of work 20 21 with the North -- North American leading consultants, and there have been some that have been in that order 22 23 of magnitude, particularly when it's salmon who need 24 to migrate because that's the nature of the fish. 25 Sturgeon don't have an intrinsic need to migrate; what

4261 they have an intrinsic need for is to have, for their 1 different portions of their life cycle, that is 2 spawning, young-of-year, and juvenile/adult, that they 3 have the right habitat. And if they have that in a 4 5 stretch of the river, they don't need to intrinsically 6 migrate like salmon. 7 So the \$300 million kind of variety is -- is the conclusion of everybody, not something that 8 9 would be in the range of what Keeyask would need or, I suggest, Conawapa, and that the 12 to 50 range that 10 11 MMP concluded would seem to be a reasonable range. 12 MR. BYRON WILLIAMS: Thank you. 13 That's what I was looking for, sir. 14 MR. ED WOJCZYNSKI: That was a yes. 15 MR. BYRON WILLIAMS: It didn't seem 16 like one, but thank you for that. 17 Dr. Shaffer, just a couple questions 18 for you, sir. In your much-loved and much-thumbed-19 through Multiple Account Benefit Cost Analysis 2010, 20 you'll recall that you do discuss various alternatives 21 to evaluate options with two (2) main alternatives 22 being either a weighted average social opportunity 23 cost of capital, or a hybrid shadow pricing approach. 24 Would that be fair, sir? 25 DR. MARVIN SHAFFER: Yes. You're

1 talking now about giving appropriate weight to a
2 stream of cash flows or benefits and costs into the
3 future, yes.

MR. BYRON WILLIAMS: 4 Yes. And just so 5 -- so that I can understand what you mean, sir, by 6 "shadow pricing" in this context, would I be correct in describing a hybrid shadow pricing approach -- in -7 - in suggesting to you that the essence of this 8 9 approach is to convert all benefits and costs to 10 potential consumption opportunities, and then to 11 discount these consumption opportunities at a time 12 preference rate?

13 DR. MARVIN SHAFFER: That's correct. 14 MR. BYRON WILLIAMS: And I'm not 15 asking you to weigh in on the relative advantages and 16 strengths of one (1) versus the other, but would it be fair to say that one (1) advantage of the hybrid 17 18 shadow pricing approach is its explicit recognition of 19 when and how one should take into account the social 20 opportunity cost of capital? 21 DR. MARVIN SHAFFER: That's correct. 22 MR. BYRON WILLIAMS: Okay. I've had a 23 bit of a du -- discussion on this subject with Dr. Borison as well, so I -- I just wanted to confirm --24 25 DR. MARVIN SHAFFER: Fair enough. No,

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4263 you -- you're -- you're expressing it correctly. It -1 - it is -- it does have advantages, the -- that hybrid 2 approach. The -- basically, what you do is you -- you 3 try to convert all benefits and costs to recognize 4 5 which benefits and costs might displace productive 6 investments. And you use the productivity of those investments to -- to change that benefit or cost into 7 a stream of goods that could be produced. And then 8 9 you discount -- now that you've converted everything into common units, call them consumption 10 opportunities, you can then discount at a time 11 12 preference rate. 13 And I can say that it's a recommended 14 approach, but it's not generally applied because its 15 very advantage is its disadvantage. It's very 16 specific as to when you try to shadow price benefits 17 or costs, but then exactly how you do that, and for 18 what benefits and costs, and at what rates for what 19 time periods is very difficult. 20 And -- and, also, it's not well 21 understood or well accepted. It's -- it's not 22 something I would say is commonly applied, though if -23 - if what you're asking me, Is it a respected, well-24 regarded approach: it is. 25 MR. BYRON WILLIAMS: Okay. I thank

4264 you, and Mr. Chair, I appreciate the patience of Hydro 1 and of the witnesses from its -- its partners, and 2 also my colleagues for loaning me some of their --3 4 their time and the Board's indulgence. Thank you very 5 much. 6 THE CHAIRPERSON: Thank you, Mr. Williams. I wonder if Mr. Gange, you would be 7 prepared to address the witness? 8 9 MR. WILLIAM GANGE: We're ready to go. 10 I think maybe if we had a five (5) minute recess, I 11 can hand out some stuff to Mr. Simonsen, and -- and I 12 think that the panel is going to change somewhat. 13 THE CHAIRPERSON: Okay, let's take five (5) then. 14 15 MR. DOUGLAS BEDFORD: I -- I have one 16 (1) -- one (1) question on re-direct. 17 18 RE-DIRECT EXAMINATION BY MR. DOUGLAS BEDFORD: 19 MR. DOUGLAS BEDFORD: Ms. Kidd-20 Hantscher, having listened to the cross-examinations 21 to date, particularly Mr. Williams, it's clear that 22 there is some concern that the predictions for 23 Aboriginal employment that are being made in the NFAT materials may prove in the event to be too optimistic. 24 25 And some of the reasons for having that concern arise

out of the experience that Manitoba Hydro now has had
 with the Wuskwatim project.

3 So looking now at the Wuskwatim project 4 and specifically the most concerned First Nation that 5 was engaged on that project, the Nisichawayasihk Cree 6 Nation, could you please tell us what the experience of employment of members of the Nisichawayasihk Cree 7 Nation was on Wuskwatim, being mindful of the 8 9 predictions that were made up to 2006, and what the 10 ultimate experience was when work was finished in 11 2012?

MS. JANE KIDD-HANTSCHER: Yes, I can do that. So when we were talking this morning about the -- the addendum to the Deloitte analysis it stopped at breaking it down under northern Manitoba Aboriginals, but of course we do have the information for NCN.

18 And what's important -- or a few 19 statistics is that the EIS predicted about a hundred and twenty-four (124) to a hundred and seventy (170) 20 21 person years of employment for NCN members, so our 22 partner on that project. We ultimately achieved three 23 hundred and twenty-five (325) person years of 24 employment for that one (1) community, which 25 represents 9 percent of the total person years on the

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project. 1 2 So it's -- those were significant numbers, more significant probably from the standpoint 3 that that's fifty-five (55) -- that's the equivalent 4 5 of fifty-five (55) people working full-time for six 6 (6) years from that community and over a 10 percent 7 increase in terms of the number of people employed from Nelson House. 8 9 So it's a significant impact and -- you 10 know, for our -- our partner on that project. And in 11 terms of hires on the project, NCN had six hundred and 12 fifty (650) of the six thousand (6,000) hires, which 13 again was over 10 percent of the total hires on the 14 project. Thank you. 15 THE CHAIRPERSON: Thank you. Ι 16 believe that's all we need to do for the time being. Let's take five (5) minutes, then. Thank you. 17 18 19 --- Upon recessing at 1:57 p.m. 20 --- Upon resuming at 2:08 p.m. 21 22 THE CHAIRPERSON: I believe that we're 23 ready to resume the proceedings. So I -- unless we 24 have some matters to attend to, Mr. Bedford, please. 25 MR. DOUGLAS BEDFORD: I have two (2)

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4267 undertakings to enter. The first one (1) is my 1 client's response to undertaking number 3. It's to be 2 entered as Manitoba Hydro Exhibit Number 135. 3 For those of you who have no recollection of what that's 4 5 all about, it is a disclosure of what dependable 6 energy is available for sale by Manitoba Hydro for 7 long-term fixed contracts relative to the total dependable energy that it is able to produce. 8 9 10 --- EXHIBIT NO. MH-135: Disclosure of what 11 dependable energy is 12 available for sale by 13 Manitoba Hydro for long-14 term fixed contracts 15 relative to the total 16 dependable energy that it 17 is able to produce 18 19 MR. DOUGLAS BEDFORD: That obviously 20 is a revelation of some commercially sensitive 21 information. And accordingly, the actual disclosure of the information, I'm advised, has been provided to 22 the Board's counsel in confidence. 23 24 And the second undertaking is Manitoba 25 Hydro's response to Undertaking number 40. It will be

entered as Manitoba Hydro Exhibit number 136. 1 2 --- EXHIBIT NO. MH-136: Response to Undertaking 40 3 4 5 MR. DOUGLAS BEDFORD: And again, for 6 those who don't remember what this was about, it is an 7 explanation from my client as to the difference 8 between the winten -- wind integration costs that were 9 shown in Appendix 9.3 to the NFAT filing. And those that are shown in a document -- an Information Request 10 11 that bears the title: 12 "La Capra Associate/Manitoba Hydro 13 First Round of Information Requests-14 308." 15 And this particular exhibit actually 16 provides some amounts and an explanation. And I'll 17 leave it to people to read at this leisure in due 18 course. Thank you. 19 20 (BRIEF PAUSE) 21 22 THE CHAIRPERSON: Thank you, Mr. 23 Bedford. Mr. Gange, please. 24 MR. WILLIAM GANGE: Thank you, Mr. 25 Chair.

CROSS-EXAMINATION BY MR. WILLIAM GANGE: 1 MR. WILLIAM GANGE: If we could call 2 up -- this -- Mr. Wojczynski, this is something that 3 you and -- and Dr. Miller and I and Ms. Flynn have 4 5 been talking about for a couple of weeks now. And --6 and you'll recall that during the remarks by Mr. 7 Thomson I had asked him to assume that Keeyask would be used solely for export sales and what would the 8 9 effect of that be. 10 And Mr. Thomson had said, as you can see in lines 16 through 22, that -- well, he ended up 11 12 saying, "I think they'd be wildly successful and 13 profitable." And so we've been talking about getting 14 some figures to put to that. And you and I and Dr. 15 Miller have discussed Manitoba Hydro providing an 16 undertaking. 17 And we've -- we've had discussions 18 about what Manitoba Hydro is already doing to the --19 I'm just going to put on the record what Green Action 20 Centre would like. And you can advise the Board 21 whether or not you can actually fulfill an undertaking 22 such as we are asking and to what degree. 23 And the first part was that -- the 24 first scenario would be that we would assume a flat 25 load and the existing contracts extended into the

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future as per the Manitoba Hydro forecast assumptions 1 used for other scenarios. 2 3 So that's what -- that was the first part of the undertaking that we would request. And I 4 5 believe that that part you've indicated that Manitoba 6 Hydro has -- has commenced working on? 7 MR. ED WOJCZYNSKI: Yes. And the one (1) issue with that one is, as per discussion on 8 9 priorities, we are doing the -- working on the ones for the fourth and the subse -- the other ones. And 10 so we're having to hold -- do those other ones before 11 12 we can do this one, but we have started and are well 13 underway on it. 14 MR. WILLIAM GANGE: Okay. And --MR. ED WOJCZYNSKI: 15 And we will 16 provide that. 17 MR. WILLIAM GANGE: The second part of 18 the undertaking that we've discussed is -- they're all 19 going to be one (1) -- or part of one (1) undertaking. 20 And Mr. Wojczynski is going to advise the chair which 21 parts of the undertaking can be fulfilled. Yeah. So it -- so it'll all be one (1) undertaking. 22 And then 23 see if it -- if it works out. 24 As -- as the second part of the 25 undertaking, assuming a flat load -- a 750 megawatt

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4271 intertie and the existing and new contracts extended 1 into the future, what would the profit -- the net --2 pardon me, the net present value be in that 3 circumstance? 4 5 The third part -- do -- do you -- do 6 you want to respond to that, Mr. Wojczynski? 7 MR. ED WOJCZYNSKI: Sorry, I -- I -could you repeat number 2 because I thought -- it 8 9 sounded to me the same as number 1, so I might have missed something. What's the difference between 10 11 number 2 and number 1? 12 MR. WILLIAM GANGE: The difference between number 1 and number 2 is with and without the 13 intertie. Number 1 was without the intertie, number 2 14 15 was with the intertie. 16 MR. ED WOJCZYNSKI: Sorry. Number 1 was always understood by us to be with the intertie. 17 18 MR. WILLIAM GANGE: Okay, that -- you 19 know what, that's -- that's fine. Then we'll -- just 20 one (1) -- one (1) second. 21 MR. ED WOJCZYNSKI: Okay. 22 23 (BRIEF PAUSE) 24 25 MR. WILLIAM GANGE: Thank -- thank

4272 you, Mr. Wojczynski. Scrap the one without the 1 intertie. That's -- that's fine. 2 3 MR. ED WOJCZYNSKI: Okay, thank you. MR. WILLIAM GANGE: Then what I had 4 5 said -- I'll now say, Number 2 as part of this 6 Undertaking, assuming a flat load, a 750 megawatt 7 intertie, assuming Keeyask and the existing and new contracts to the extent of available dependable energy 8 9 into the future, what is the net present value? 10 MR. ED WOJCZYNSKI: I'm sorry. I'm --11 I -- maybe I should have had another cup of tea at 12 lunch time. The second one that you just said now, is 13 flat load, 750 tie, Keeyask and the contracts -- you 14 know, those contracts extended -- that was your second 15 requirement? Isn't that the same as the first one? Ι 16 -- like, I'm loo -- let -- let's start -- let's start 17 again from the beginning. 18 MR. WILLIAM GANGE: Okay, Mr. 19 Wojczynski, we will, and -- and I'll -- Mr. -- I'll 20 just finish off, and then -- and then we can figure out what the differences are. 21 22 MR. ED WOJCZYNSKI: Okay. 23 MR. WILLIAM GANGE: The fourth one 24 would be assuming a flat load, a 750 megawatt 25 intertie, assuming Keeyask and assuming Conawapa and

4273 based on the existing and new contracts, what would 1 the net present value be? 2 3 And that's -- that's all of them. 4 5 (BRIEF PAUSE) 6 7 MR. ED WOJCZYNSKI: Luckily I have an alert lawyer helping me here, so I'll see if I 8 9 interpreted it right based on his assistance. 10 Number 1 is flatload, 750, which is 11 common, existing and new contracts extended for the 12 firm dependable, and you want the NPV of that, but 13 without Keeyask. 14 And then you want the same but with 15 Keeyask. And then you want the -- the -- the sa --16 the same but, thirdly, adding in Conawapa. 17 MR. WILLIAM GANGE: Yes, that's 18 correct. 19 MR. ED WOJCZYNSKI: Okay, so --20 MR. WILLIAM GANGE: Thank -- thank 21 you, Mr. Bedford, for translating. 22 MR. ED WOJCZYNSKI: -- okay, so -- so, 23 using those numbers -- one (1), two (2), three (3) --24 the new one (1), two (2), three (3) if -- we -- we 25 will take that under advisement to come back on what

we can do and the timing of that. 1 2 But based on my understanding at this minute, it's number 2 that we're doing right now, and 3 -- and number 1 is -- actually, what we're doing is 4 number 2 minus number 1. We are getting what we are 5 6 providing as part per the original Undertaking is number 2 minus number 1. 7 8 But why don't I take this away, we'll 9 discuss it and come back with a proper -- when are we going to do this? Come back? I guess that would be 10 on the 4th. Oh, okay, we'll do that at the break 11 12 today. 13 MR. WILLIAM GANGE: Thank you very 14 much. 15 MR. ED WOJCZYNSKI: And get back after 16 the break. 17 MR. WILLIAM GANGE: Thank you, Mr. 18 Wojczynski. I appreciate that. Then if I can go to 19 page 2 of Exhibit GAC number 20-3, and page 2 of that, 20 thank you. 21 Mr. Hamlin, a question for you with respect to this chart. The -- under "Gas" and under 22 23 "Wind" under -- in -- in the column "Air" it says, 24 five hundred (500) -- for -- for instance, under "Gas" 25 it says, 764 tonnes per gigawatt hour, and then -- and

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4275 then 509 tonnes per megawatt hour, and under "Wind" it 1 says, 13 tonnes per megawatt hour. 2 3 We've been operating on the assumption 4 that that's a typo? 5 MR. BILL HAMLIN: You are correct. 6 Those should -- the combined cycle gas turbine should 7 read 509 tonnes per gigawatt hour. 8 MR. WILLIAM GANGE: Okay. So all of -- all of those references are per gigawatt hour, not 9 per megawatt hour? 10 11 MR. BILL HAMLIN: That's correct. 12 MR. WILLIAM GANGE: Thank you, sir. 13 And in looking at the columns Keeyask, Conawapa, Transmission, Gas, and Wind, are the gigawatt hours --14 15 or pardon me, is the -- is the greenhouse gas 16 reference that's made there pertaining to the 17 production of electricity? 18 MR. BILL HAMLIN: That's correct. The 19 production of electricity adjusted for losses for each 20 one. 21 MR. WILLIAM GANGE: Do they com -- do 22 they include embedded gigawatt -- or greenhouse gases? 23 MR. BILL HAMLIN: Those are on the basis of life cycle analysis, so it would account for 24 25 all of the greenhouse gasses during the ext --

4276 extraction of the raw materials, the processing, the 1 manufacture of components, the construction of the dam 2 and powerhouse, and ultimate decommissioning, as well 3 as the land use change implications. 4 5 MR. WILLIAM GANGE: Does it include displacement? 6 7 MR. BILL HAMLIN: The displacement of emissions that the electricity produces, no. No. 8 9 Those are the implications of the projects -- of -- of 10 the life cycle components of the projects. We account 11 for the emission displacements elsewhere. 12 13 (BRIEF PAUSE) 14 MR. WILLIAM GANGE: And -- and the 15 16 column with gas, does that include fuel emissions? 17 MR. BILL HAMLIN: That's correct. The 18 upstream -- the emissions associated with the upstream 19 extraction of natural gas and the losses during 20 transportation, all of those imp -- implications are -- are included. 21 22 MR. WILLIAM GANGE: And what about 23 burning of the greenhouse -- or burning of the gas to 24 -- to generate the power? Is that included in there 25 as well?

4277 MR. BILL HAMLIN: That is included 1 2 also. MR. WILLIAM GANGE: Okay. The -- the 3 figure -- or the column DSM and the greenhouses 4 5 reduction of one million tonnes by 2027/2028, how is that number arrived at? 6 7 MR. BILL HAMLIN: I am not sure. To 8 be consistent with the other answers, I would have 9 preferred that that column said something more like 10 the greenhouse gasses are assumed to be negli --11 negligible rather than trying to account for the 12 displacement of emissions, which is not a part of the other -- of the -- the other columns. 13 14 MR. WILLIAM GANGE: So that's the dis 15 -- or that is a distinction between the DSM and the other five (5) columns? 16 17 MR. BILL HAMLIN: In this table. 18 MR. WILLIAM GANGE: Yes. 19 MR. BILL HAMLIN: Yes. 20 21 (BRIEF PAUSE) 22 23 MR. WILLIAM GANGE: And -- and in 24 reference to that, with respect to the displacement on 25 the greenhouse gasses, sir, is that in reference to

4278 freeing up electricity to be exported to the United 1 States, thereby replacing fuel generated sources? 2 3 MR. BILL HAMLIN: That's correct. 4 MR. WILLIAM GANGE: Anything else in 5 that? 6 MR. BILL HAMLIN: It's the implications of the generation outside of the --7 outside of the borders of Manitoba. So what -- what 8 9 it could be displacing in our export markets, which are dominated by the US, but it could also be 10 11 Saskatchewan, or Ontario. 12 MR. WILLIAM GANGE: And, sir, does it 13 include anything with respect to in Manitoba the efforts of Centra Gas to be using and promoting more 14 15 efficient use of -- or, pardon me, the use of more efficient furnaces? 16 17 MR. BILL HAMLIN: No, this is -- this 18 is strictly from the perspective of electrical 19 generation, and -- and what -- what contributes to 20 that. 21 MR. WILLIAM GANGE: Okay. Thank you. 22 I'm going to turn -- and, Mr. Hamlin, perhaps I -- I 23 think that you're the person that I want to ask these 24 questions of. 25 If you turn to page 6 of the book of

documents, you'll see that there's -- there was a 1 discussion between Dr. Grant and Mr. Wojczynski about 2 the fact that the greenhouse gas effects of hydro are 3 4 significantly less than wind. 5 MR. BILL HAMLIN: Yes, although I 6 would point out that the greenhouse gas profiles of 7 both types of resources are extremely low compared with all of the other options. 8 9 MR. WILLIAM GANGE: Okay. We didn't 10 talk about this when -- when I was asking. Was that -- that's the point that I want to make, that in fact 11 12 the -- the -- although Dr. Grant was correct that --13 that the greenhouse gas profile of wind is five (5) 14 times greater than the hydro dam, the comparison of 15 wind and hydro to a natural gas turbine, both of them 16 are -- are almost statistically insignificant. Isn't 17 that correct, sir? 18 MR. BILL HAMLIN: There -- from a 19 greenhouse gas prospect, they're both excellent 20 resources. MR. WILLIAM GANGE: 21 Yes. The 22 calculation that I did was that, with respect to wind, 23 the -- the wind when compared to the seven sixty-four 24 (764) of -- of the single cycle gas turbine would be 25 about 1.7 percent of the output of the single cycle

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4280 gas turbine whereas the -- the hydro dam would be 1 about .32 percent. 2 3 So again, from my perspective, statistically insignificant. 4 5 MR. BILL HAMLIN: I -- I can't talk to 6 the statistical significance but they're both --7 they're both low emitting resources. 8 MR. WILLIAM GANGE: Yes, thank you. 9 10 (BRIEF PAUSE) 11 12 MR. WILLIAM GANGE: And if we could go 13 to 129-7, page 15. Mr. Wojczynski, this is part of 14 your presentation dealing with the -- the requirement 15 to reduce greenhouse gases and the worldwide priority 16 for dealing with climate change. 17 I'm not sure if you were present -- I 18 think that you were present when Dr. Miller was asking 19 some questions of -- of Dr. Murphy, and -- and if --20 if you look at page 31 of our book of documents, 21 Professor Miller had put a quote from Nicholas Stern 22 which read that: 23 "Climate change is a result of the 24 greatest market failure the world has 25 seen. The evidence on the

4281 seriousness of the risks from 1 2 inaction or delayed action is now 3 overwhelming. The problem of climate change involves a fundamental failure 4 5 of markets. Those who damage others 6 by emitting greenhouse gases 7 generally do not pay." 8 You recall that -- that quote that Dr. 9 Miller had read to Dr. Murphy? 10 MR. ED WOJCZYNSKI: I'm familiar with 11 it, and I'm familiar with other statements by others 12 who have -- make the same and -- and I fully agree with those statements. 13 14 MR. WILLIAM GANGE: And -- and the 15 comments that you had cited in your report of 129-7, 16 page 15, basically are going -- they're -- they're stated in different language but the effect of it is 17 18 meant to be the same point, is it not, sir? 19 MR. ED WOJCZYNSKI: Yes, it is, and 20 it's also -- there was just -- Mr. Hamlin can probably 21 better -- position to remember the wording, but there was a recent -- in the last few weeks, another recent 22 announcement from IPCC, the United Nations inter --23 24 huge scientific consensus reports that -- indicating 25 the greater and greater certainty that it's people and

4282 people's activities that are a major driver, if not 1 2 the major driver, of climate change. 3 MR. WILLIAM GANGE: Thank you. If I could go to 129-6, the multiple accounts benefit cost 4 5 analysis. Page 2, Dr. Shaffer, you had mentioned that 6 the multiple account approach uses results dis-7 aggregated by evaluation account? 8 DR. MARVIN SHAFFER: Yes. 9 MR. WILLIAM GANGE: And -- and I have 10 to acknowledge that I had to look up dis-aggregated in the dictionary to figure out what the heck you were 11 12 talking about, but I think I've got it now. 13 The -- the point, though, that you're -14 - you were referring to that -- that you have to break 15 these -- these situations into separate components. 16 And that's -- that's what -- what the whole multiple 17 account approach attempts to do? 18 DR. MARVIN SHAFFER: It's trying to 19 accommodate two (2) things. One (1), that not all 20 consequences can be monetized. And also, if you add 21 up all of the consequences and just look at a bottom 22 line, you might not fully appreciate or take into 23 consideration the different mix of consequences or 24 I'll call them distributional effects. 25 MR. WILLIAM GANGE: And would you

4283 agree with me, sir, that -- that dis-aggregation, one 1 can -- it could be broken down --2 3 DR. MARVIN SHAFFER: So --4 MR. WILLIAM GANGE: -- further. And, 5 I mean, if one wanted to, you could keep going and 6 going and going? 7 DR. MARVIN SHAFFER: Absolutely. The -- the way this is done is -- is -- depends on the --8 9 the matters of most -- greatest significance or 10 priority in the analysis, yes. 11 MR. WILLIAM GANGE: Thank you. And if 12 I could go to the next page, page 3. One of the 13 evaluation accounts that you used was Manitoba Hydro 14 customer. And you said that: 15 "...consequences for customers rate 16 impacts in short versus long-term and 17 reliability." 18 That was one (1) of the ways that you 19 were looking at this dis-aggregation. 20 Is that correct, sir? DR. MARVIN SHAFFER: That's correct. 21 22 And in -- in that particular case, what I was looking 23 at, leaving the reliability to the side but with 24 respect to rates, was the distributional consequence 25 that the Preferred Plan had with respect to rate

impacts in the short to medium-term versus rate 1 impacts in the long-term, which I thought would be 2 relevant to the consideration of the advantages and 3 disadvantages of different plans. 4 5 MR. WILLIAM GANGE: And would you 6 agree with me, sir, that -- that those rate impacts, 7 you've considered short versus long-term, but one 8 could also look at it in terms of rate impacts are 9 different for low income customers versus middle class 10 income customers versus upper income customers? 11 DR. MARVIN SHAFFER: You could -- the 12 -- the same rate impact issue arises. But what you're 13 -- what I think you're suggesting is the -- the 14 significance of a rate increase in the short-term may 15 be different for different customers, whether it's industrial versus residential or different income 16 17 classes within residential. 18 MR. WILLIAM GANGE: Yes. And what I'm 19 making reference to is that -- is that the -- the 20 consequences to low income customers might be 21 significantly different than to high income customers. 22 23 Even though the rate goes up the same, 24 the -- the energy burden might be significantly 25 different depending upon your -- your level of income?

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4285 DR. MARVIN SHAFFER: Gen -- I agree. 1 Generally, a dollar of benefit or cost is going to be 2 more significant the lower one's income. There is 3 differences, of course, in the amount of consumption 4 5 between different income classes of customers, but I -6 - I don't disagree with what you're saying. 7 MR. WILLIAM GANGE: And would you agree with me, sir, that -- that under that scenario a 8 9 utility would have to consider greater mitigation efforts for lower income customers? 10 11 DR. MARVIN SHAFFER: Well, I think that's a separate matter from -- from this. I think 12 13 utilities and -- and regulatory bodies certainly 14 concern themselves with the issue you're raising, but 15 here we're talking about different plans and the plans 16 will -- would all entail rising rates. And the plans would -- would have different consequences for 17 18 customers in -- in the first twenty (20) year time 19 period versus a longer time period. 20 So whatever those, you know, 21 distributional effects, you're con -- discussing now, 22 they -- they're taking place in all of the plans, and 23 if government wishes to look at what to do with the 24 consequence of rising energy prices on low income 25 families, or households, it has to do that in all of

4286 the plans. 1 MR. WILLIAM GANGE: And -- and can you 2 say this, sir. Do any of the plans that have been for 3 -- put forward give to the government a greater 4 ability to deal with those issues? 5 6 DR. MARVIN SHAFFER: I -- I hesitate 7 to go down this road, but since you asked. 8 MR. WILLIAM GANGE: Don't -- it's a 9 high wire but go with it. 10 DR. MARVIN SHAFFER: You know, I -- I think these are matters of government policy that they 11 12 have to deal with, but government does -- we do know 13 that the different plans generate different amounts of 14 -- of revenues for government. 15 So if -- if they chose to do so, they could use those in ways to -- to mitigate rate 16 17 increases. They could use that in ways to -- to make 18 other investments. That -- I think it's a separate 19 policy question but, clearly, there are differences in 20 the impacts to the different plans to government. 21 MR. WILLIAM GANGE: And if we could go 22 to 129-7, page 4, so the -- for instance on this page, 23 Dr. Shaffer, the amount of the Preferred Development 24 Plan that's set out in this chart, I think that we've 25 looked at this chart on several different occasions

4287 through this -- through the time that you've been 1 sitting there. 2 3 The -- the green line as I understand it for the Preferred Development Plan for water rental 4 5 and capital tax looks like it would produce -- it's 6 projected to produce pretty close to double what the 7 other two (2) plans would result in. Is that correct, sir? 8 9 DR. MARVIN SHAFFER: Yes, these -these are the differences from the All Gas Plan. 10 11 MR. WILLIAM GANGE: Yes. And -- and --12 DR. MARVIN SHAFFER: And this is 13 discounted -- this isn't the analysis. It's out of my contribution to this effort, but it's a different 14 15 discount rate. But, yes. 16 MR. WILLIAM GANGE: So that -- again as -- and -- and I understand that --17 18 DR. MARVIN SHAFFER: That's fine. 19 MR. WILLIAM GANGE: -- you're not here 20 giving advice -- policy advice to the government, but 21 this is one way it -- it would appear that the Preferred Development Plan does result in a 22 23 significant increase of money flowing into the 24 government coffers that would have to be used in some 25 way.

4288 DR. MARVIN SHAFFER: 1 We recognize that in the analysis, that the Preferred Development Plan 2 generates more, and I would say incremental net 3 benefits for government, even conservatively estimated 4 and -- and calculated. 5 6 MR. WILLIAM GANGE: Yes. And, Mr. 7 Wojczynski, do you know, does -- does Hydro have currently -- as it's looking at these various plans, 8 9 does it have on its agenda mitigation efforts for low income customers? 10 11 MR. ED WOJCZYNSKI: I'm -- I'm aware 12 that we are -- do have initiatives for low income 13 customers. I'm not actually in a good position to 14 comment on those, and when we have the finance panel 15 back up -- it's actually more the customer -- when we 16 have the -- to some degree that could be addressed by 17 one (1) of the witnesses on the finance panel. 18 And then there's also some other 19 programs that the customer service people could likely 20 address, but certainly the finance panel is a better 21 position to address that than we are. 22 MR. WILLIAM GANGE: Okay. And -- and 23 I'll follow up on that. I -- I do though, however, want to say, Mr. Wojczynski, if -- if you take a look 24 25 at page 19 and 20 of our book of documents. And I can

4289 tell you, this is material that comes off the website 1 of the City of Seattle Power Corporation -- pardon me, 2 City -- Seattle City Light, Dr. Miller tells me. 3 It would appear that these rates, for instance, on page 4 5 20, that they have a separate rate for a residential 6 elderly, disabled, and suburban residential low-income 7 customers, which have a rate that is significantly lower than -- than the ordinary rates. 8 9 You're aware of those kinds of 10 processes, sir? 11 MR. ED WOJCZYNSKI: I am aware 12 generally that other jurisdictions, or some other 13 jurisdictions, at least, do have various programs for 14 low-income people. And -- and -- but I'm -- I'm not 15 in a good position to discuss the more -- discuss 16 Manitoba Hydro's situation in that regard. 17 MR. WILLIAM GANGE: Thank you, sir. 18 Ms. Anderson and -- and Mr. Bland, I -- I indicated --19 or during the break I asked if -- if I could get you 20 to comment upon discussions that might have taken 21 place between your First Nations and Manitoba Hydro. 22 And -- and I understand that both of your communities 23 came into the negotiations a little bit later than --24 than Tataskweyak did. And it's -- we don't have Mr. 25 Spence here, unfortunately.

4290 But it -- it struck me as I was 1 listening to both of you in your presentations that 2 both of you talked about the cooperation that had been 3 -- that you had received from Manitoba Hydro in -- in 4 5 the design process. 6 Is -- is that fair, Ms. Anderson? Can 7 you comment on that? And I know -- I -- I understand, ma'am, that I'm -- that I'm putting you at a little 8 9 bit of a disadvantage, but -- but if -- if it's possible for you to comment on that. 10 11 MS. KAREN ANDERSON: So for the 12 project design, most of the fundamental features were 13 already agreed to prior to Fox Lake joining the partnership, or the negotiations. So there's -- there 14 15 -- none of them really affected us. So that's all I 16 can comment on. Thank you. 17 MR. TED BLAND: As for York Factory, 18 the -- the only fundamental operating feature that we 19 had was the operation of the -- basically stating that 20 the Keeyask generating station will not affect the 21 water levels on Split Lake during open water 22 conditions. 23 Otherwise, as the discussion we had 24 earlier, the -- the low head of the project was 25 already decided upon by our partner First Nation.

4291 And, you know, we basically came in a couple of years 1 later and -- and just went along with the project. 2 3 MR. WILLIAM GANGE: Mr. Bland, let me 4 then -- that -- that point that you just raised about 5 the open water on -- on Split Lake, was that something 6 that -- that your community was able to discuss with representatives of Manitoba Hydro and -- and did you 7 arrive at a satisfactory resolution of that point? 8 9 MR. TED BLAND: Yes, that was 10 something that we worked on with Manitoba Hydro and 11 Tataskweyak because they were also involved for Split 12 Lake. 13 MR. WILLIAM GANGE: Thank you. I 14 appreciate that. Mr. Brandson, you talked about 15 sustainable development. And my recollection is that 16 during your presentation you mentioned that the --17 that -- that this process that eventually was put into place started with Pauley government, was continued by 18 19 the Filmon government, and was then continued by the 20 Doer government. 21 Did I get that right, sir? 22 MR. NORMAN BRANDSON: Yes, you did. 23 MR. WILLIAM GANGE: Thank you. It's -- it's almost impossible for me in the year 2014 to 24 25 believe that -- that three (3) successive regimes

4292 would actually agree on something even though it makes 1 perfectly good sense. Not that I'm commenting on --2 on -- on the state of our political process -- our 3 pathetic state of political process but -- but -- but 4 5 it's fair for me to say it's very rare in these days 6 of political posturing that that kind of consistency 7 would be achieved by three (3) successive governments. 8 Is that correct, sir? 9 MR. NORMAN BRANDSON: Yes, it is, and 10 -- and just to elaborate on that a little bit, because I agree. It's -- it's astonishing to me having worked 11 12 inside the bowels of government for many years. 13 Partly it's come about because of a 14 much broader kind of current in society about 15 sustainable development, and -- and a notion of 16 sustainability. 17 It happened, too, because governments 18 like to brand things. Sustainable development was a -19 - a kind of a Filmon government brand. The present 20 administration, really, in a -- in a practical sense, 21 adopted all of the fundamentals of sustainable 22 development without really adopting the brand. 23 I think to some extent they're still 24 searching a little bit for their own brand for the set 25 of -- of pretty good ideas, actually.

4293 MR. WILLIAM GANGE: And Mr. Brandson, 1 I've included at page 10 of our book of documents 2 three (3) pages from the report on the consultation on 3 sustainable development implementation. 4 5 Were you involved in -- in that 6 process? 7 MR. NORMAN BRANDSON: When the COSDI process was set in motion, my department, which was 8 9 then the Department of Environment, was charged with resourcing and, I believe it's fair to say, managing 10 11 this -- this process. 12 And I have to say, as a result, I -- I 13 have a fondness for this report, notwithstanding any 14 further answers I might give to your questions. 15 MR. WILLIAM GANGE: At -- at page 11 16 of the report it talks about public participation. And I've -- that's under number 5 -- and I've 17 18 underlined that and -- and the -- well, the principle 19 that's put forth with respect to public participation is as stated. 20 And -- and, for the record, I'm just 21 22 going to read it into the record. 23 "There is inconsistent opportunity 24 for public involvement in the 25 planning and decision-making

4294 1 processes. Sometimes key decisions, 2 for example, the significant resource 3 allocation are made with the public brought in later in an environmental 4 5 assessment process that addressed 6 primarily mitigation measures. 7 Different decision-making processes 8 bring different -- differing levels 9 of public involvement and different 10 levels and ease of access to 11 information." 12 I take it, sir, that that's a -- a 13 principle that, at the time that you were in your 14 department, would have been of significant importance 15 for you. 16 Is that correct, sir? 17 MR. NORMAN BRANDSON: Absolutely, yes. 18 Again, a bit of -- of history. We talk about public 19 involvement in government and have for some time. We -- we kind of forget about how it worked its way into 20 21 the fabric of government. It actually started in a 22 serious way with respect to environmental issues and -23 - and environmental assessment early on. 24 And, of course, this has become a -- a 25 standard part of most things that government do these

4295 days. But the simple answer -- well, let me make one 1 (1) point, and that is, The -- the statement you just 2 read out which talks about inconsistency of 3 involvement and so on, was true, certainly, when it 4 5 was written. This was fifteen (15) years ago now. I think our processes have improved in 6 the interim; they're not perfect, but they're 7 certainly better, in my view, than they were in 1999. 8 9 And -- and I think that's worthwhile taking into 10 account. 11 But, certainly, otherwise, the -- the 12 principle as stated in the recommendation, I think, 13 yes, is a -- was and is a fundamental principle, 14 certainly of the environmental arm of the provincial 15 government. 16 MR. WILLIAM GANGE: And two (2) days 17 ago, when we started with this panel, we -- there was a presentation with respect to the involvement that 18 19 the Cree Nation partners had. And -- and it's 20 unfortunate that Mr. Spence is not able to be here. 21 But my recollection is that -- that there was evidence 22 that was brought forth stating that Hydro engaged the Cree Nation partners with respect to the planning of 23 Keeyask. And as a result of that, for instance, the 24 25 area to be flooded was decreased.

4296 1 Do you -- do you recall hearing that 2 evidence, sir? MR. NORMAN BRANDSON: Yes, I do. And 3 -- and I've also, to a certain extent, having reviewed 4 5 the environmental impact statement for Keeyask, have 6 some, I guess, background, although certainly I was not involved in that process. 7 MR. WILLIAM GANGE: And that kind of 8 9 involvement involving the communities that were involved and finding out their concerns and taking 10 11 their concerns into account and thereby resulting in a 12 smaller flood plain, I take it that that kind of a 13 result is exactly what the COSDI process is meant to 14 achieve? 15 MR. NORMAN BRANDSON: I think among other things, yes, that's -- it's very consistent with 16 17 the -- the principles and the recommendations that 18 came out of the COSDI process, yes. 19 MR. WILLIAM GANGE: So, for instance, 20 still looking at -- at page 11 of GAC number 20-3, 21 under the recommendations it says that: 22 "It's recommended that participation 23 in planning and assessment and 24 review, a) there be opportunity for 25 effective, meaningful public

4297 participation and consultation 1 2 processes at all levels of planning, 3 significant resource allocation, and effects assessment and review." 4 5 And then it talks about a number of 6 things that should be taken into account. When I hear 7 -- when I heard the evidence with respect to the -the involvement of the Cree Nation partners, I have to 8 9 say that -- that my sense was that -- that Manitoba Hydro fulfilled the COSDI mandate with respect to that 10 11 particular community. 12 Did you get that same sense, sir? 13 MR. NORMAN BRANDSON: I -- I hadn't 14 thought of it in that context. But since you've posed 15 the question, I -- I think I would answer that 'yes'. 16 When I heard -- well, read about the -- the process 17 that had taken place, as I say, I didn't put it in the 18 COSDI context, but it -- it jumped out like a huge 19 beacon as a quantum leap forward in the way we do 20 business out there on the landscape. 21 MR. WILLIAM GANGE: Yes, sir, and --22 and especially when we listen to the evidence of Ms. 23 Anderson, talking about the fact that in previous 24 plans and -- and in previous dams there had been no 25 consultation and the -- the First Nation communities

4298 were not taken into account. The effect upon the 1 First Nations communities did not seem to be taken 2 into account. It struck me that there was a very, 3 very significant difference in terms of the way that 4 5 Manitoba Hydro is doing business with its First Nations communities. 6 7 Did -- did that -- did that strike you in that same fashion? 8 Yes, it did. 9 MR. NORMAN BRANDSON: 10 MR. WILLIAM GANGE: And -- and one of 11 the other recommendations was that: 12 "Early participation, b) that 13 Manitoba additionally encouraged the 14 Proponent to provide for meaningful 15 public input before the formal 16 development review process is 17 initiated or the significant resource 18 allocation decided upon, including 19 outreach to those not historically 20 reached or involved by traditional 21 methods, including the Aboriginal 22 peoples." 23 Again, sir, when you were in the 24 department was this one of your key concerns, that 25 there be early participation in this process?

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1	MR. NORMAN BRANDSON: Yes, in in
2	some ways earlier, the better. Keeping in mind there
3	there are always some practical limitations to what
4	you can do. When you talk about effective and
5	meaningful public participation, some of that is in
6	the eyes of the beholder. I mean, what's effective to
7	one group may not be so to another, for example.
8	Timeliness of process is another issue
9	too that that comes into play. So there are a lot
10	of factors that that impinge upon involvement and
11	participation, but the principles are solid ones,
12	given that there are practical considerations to take
13	into account.
14	MR. WILLIAM GANGE: And if you look on
15	the next page, page 12, another heading is under 'I',
16	to encourage consultation. And it states:
17	"Manitoba actively encouraged
18	proponents, including government, and
19	require evidence from them that
20	broad, meaningful consultation has
21	occurred and serious effort to
22	resolve concerns has been completed
23	before developments proceed further
24	through the decision-making process."
25	I take it, sir, that that too was one

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4300 of the -- the main principles that you saw of the cons 1 -- COSDI process? 2 3 MR. NORMAN BRANDSON: Yes. I -- I'm just -- I'm reading this and trying to put it in 4 5 context with the rest as to exactly what stage of 6 consultation this refers to, but I -- again, as a principle I think it's sound. 7 MR. WILLIAM GANGE: And -- and in 8 9 terms of what stage, the -- the previous principle that we talked about was the earlier the better, in 10 terms of heading B, the early participation. 11 That would be fair, wouldn't it, sir? 12 13 MR. NORMAN BRANDSON: Yes. 14 MR. WILLIAM GANGE: So what I've 15 heard, it -- it's struck me that Manitoba Hydro, from 16 what we heard in this hearing, probably deserves an 'A' with respect to its -- its involvement with the 17 18 Aboriginal communities in the North. I certainly 19 didn't hear significant concerns about not being consulted. 20 21 Did you hear -- did you hear anything 22 that caused you concern, sir? 23 MR. NORMAN BRANDSON: No, I didn't. 24 MR. WILLIAM GANGE: I want to -- I 25 then want to go to -- move from Northern Manitoba to

Southern Manitoba. 1 2 Are -- are you aware of the process that was used in -- in Southern Manitoba for 3 4 consultation? 5 MR. NORMAN BRANDSON: Only in broad 6 outline. I -- certainly in any detail, no. 7 8 (BRIEF PAUSE) 9 10 MR. WILLIAM GANGE: Are you at all 11 familiar with the Wuskwatim process, sir, the -- the 12 Wuskwatim NFAT and -- and the development process? 13 MR. NORMAN BRANDSON: Again, in -- in very broad outline. That's not a process -- in fact, 14 15 I was out of the province most of the time that it was under way. So I -- I confess, I didn't follow it all 16 17 that close. 18 MR. WILLIAM GANGE: Okay. Mr. 19 Wojczynski, you were, of course, front and centre with Wuskwatim? 20 21 MR. ED WOJCZYNSKI: I was honoured to lead a team who are -- led -- did the Wuskwatim 22 23 effort, yes. 24 MR. WILLIAM GANGE: Come on, don't be 25 so modest. You were front and centre with respect to

Wuskwatim? 1 2 MR. ED WOJCZYNSKI: I was the 3 mouthpiece for the team, yes. 4 MR. WILLIAM GANGE: Thank you. And my 5 understanding was that with Wuskwatim there was, for 6 instance, a DSM committee that was comprised of lay representatives, 'lay' meaning non -- not necessarily 7 8 Hydro representatives. 9 Do you recall that, sir? 10 MR. ED WOJCZYNSKI: I recall that very 11 well. And if it's -- if it's -- I think we're talking 12 about the same exercise. It was beyond just DSM. Ι 13 think we looked at resource planning and looked at 14 various resource options, how we do our resource 15 planning, how the Manitoba system operates, what the 16 export market's about. I believe we're talking about 17 the same group. DSM was a major aspect of that, as 18 well. 19 MR. WILLIAM GANGE: And -- and, in 20 fact, sir, Professor Miller was on the Pembina life 21 cycle analysis that was -- was part of the Wuskwatim 22 process, as well. 23 Is that correct? 24 MR. ED WOJCZYNSKI: Dr. Miller was 25 involved in that, and I have to say he's been involved

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4303 and made a positive contribution in many initiatives 1 2 since. 3 MR. WILLIAM GANGE: With respect to the Preferred Development Plan, Mr. Wojczynski, there 4 5 -- there wasn't a similar committee such as -- I -- I 6 refer to it as the DSM committee; you refer to it as a larger committee. 7 8 MR. ED WOJCZYNSKI: Resource planning 9 committee is --10 MR. WILLIAM GANGE: Resource planning, 11 thank you. There wasn't a similar process in -- in 12 this Preferred Development Plan NFAT, was there, sir? 13 MR. ED WOJCZYNSKI: No, there was not. 14 MR. WILLIAM GANGE: And Professor 15 Miller has provided to me, and you'll see it at page 14 of our book of documents, the first notification 16 that he received from Connie Gamble at Manitoba Hydro 17 18 inviting various parties to attend a meeting with 19 respect to the NFAT process? 20 MR. ED WOJCZYNSKI: Yes, and I -- that -- that one was of a somewhat different nature. That 21 22 process is what I would call a stakeholder input 23 process into the NFAT. But as President Thomson indicated the first day of the hearings, after years 24 25 of study and negotiations and other efforts, Manitoba

Hydro had a general idea as to what a Preferred Plan was. And we were not -- and -- and we were not starting at the beginning of the resource planning process. We were further along, although we were open to modifying that or even moving off of it, if appropriate.

7 But we were not at that formative stage that one would call resource planning, which the 8 9 earlier effort with Wuskwatim was. It was a more 10 open-ended process than the second initiative, which was a stakeholder consultation letting people know 11 12 what it is we were thinking of, and -- and getting 13 their views, and hopefully facilitating this NFAT process somewhat by providing various stakeholders 14 15 information prior to coming into it.

16 The environmental groups -- there were a number of meetings. Offhand I don't remember how 17 18 many, eight (8) maybe; but Dr. Miller probably 19 remembers better than I do. We also met with chamber of com -- with MIPUG, with the business council. We 20 21 did offer to meet with MKO and MMF. I -- I actually 22 don't remember all the meetings right now. There was 23 -- Ms. Gamble was the department manager and looking 24 after that, and -- on -- on my behalf. 25 MR. WILLIAM GANGE: If you look at

4305 page 23 of our book of documents, again this is 1 talking about Seattle City Light, and -- and this is 2 actually in reference to a standing committee that 3 Seattle City has, called the City -- Seattle City 4 5 Light Review Panel. 6 Mr. Wojczynski, are -- are you familiar 7 with this particular utility? 8 MR. ED WOJCZYNSKI: I've heard of 9 Seattle Light, and I'm aware -- I'm generally aware 10 that Seattle Light and other various utilities around North America, some do -- do no stakeholder 11 12 consultation, some do stakeholder consultation. 13 Some go further than that and have a 14 quasi-collaborative process. Some go into a full --15 there's not many that I know that would do a full 16 collaborative process. I'm distinguishing collaboration from consultation. They are two (2) 17 18 different things. 19 Offhand, I -- I don't know the details 20 of this one, and... 21 MR. WILLIAM GANGE: I -- I put in at 22 page 24 the members' bios. This is the citizen 23 committee of -- of -- a volunteer group that is drawn 24 from various parts of Seattle society, including 25 businessmen, people representing residual users. And

4306 -- and this is a committee that, it would appear, 1 gives advice to Seattle City Light on an ongoing 2 basis. 3 4 Are you aware of any other committees 5 like that, sir? 6 MR. ED WOJCZYNSKI: There -- there have been other initiatives that aren't exactly the 7 same as this, but do revol -- involve resource 8 allocation. BC Hydro had a water use planning 9 process, which was resource allocation in the sense 10 that they were -- they were managing a particular use 11 12 of water resource, and you're allocating between different users. 13 14 In terms of choosing how much DSM one 15 does or what the DSM is, offhand I'm not familiar with a -- a committee elsewhere. 16 17 I do note that we -- Manitoba Hydro has 18 consulted -- it's not been a formal committee --19 consulted previously on DSM. And, actually, Dr. 20 Miller's organization is one of the few that has provided input. 21 22 I also note that as part of the recent 23 legislation, the Manitoba government and Manitoba 24 Hydro are -- have had a process where they were 25 seeking input on the energy efficiency program. And

4307 meetings were held in The Pas, Brandon, Winnipeg. I'm 1 not sure where else. 2 3 Apparently, there wasn't a lot of 4 participation. That's not to say if there wasn't a 5 lot of participation, it shouldn't have happened. But 6 that is different than setting up a committee of the ilk which you're talking about. 7 8 I do note that, of course, Green Action 9 Centre did participate and they provided significant input in writing, so kudos to Green Action Centre. 10 11 MR. WILLIAM GANGE: And -- and at page 12 16 of the book of documents, sir, the minutes of the 13 meeting that we just referred to that had been called 14 by Ms. Gamble are set out. And it -- it talks about 15 how you had been present and that you provided an 16 introduction of Manitoba Hydro's perspective and a 17 tentative schedule outlining the different key dates 18 for the NFAT. 19 And -- and I -- I've -- I've already 20 given you an 'A' for the Aboriginal involvement, sir. 21 But with respect to Southern Manitoba, the involvement 22 was not the -- the early participation in the 23 formulation. It was -- you were advising the groups, 24 such as Green Action Centre, the Consumers' 25 Association, MIPUG, the Chamber of Commerce, those

various parties, of what you intended to do. 1 2 Isn't that what -- what happened, sir? 3 MR. ED WOJCZYNSKI: That is true, but 4 also recognizing that we were interested in hearing a 5 response to those and -- and as things would evolve, 6 we would take those into account. We continued to hear, for example, the 7 interest in other resources, including DSM 8 9 particularly in that. And I would suggest that one of 10 the reasons Manitoba Hydro has been as willing to look at expanding the DSM was, in part, due to the 11 knowledge there was an enthusiastic interest from 12 13 various parties in that. 14 The other part, of course, the metrics 15 told us that it made sense. So those two (2) went hand-in-hand. But in terms of our Preferred Plan, we 16 17 weren't starting from scratch saying, Here's a 18 thousand possibilities; what do you think, and let's 19 pursue the ones you're interested in. 20 We were not at that stage and that was 21 not that kind of a process, yes. 22 23 (BRIEF PAUSE) 24 25 MR. WILLIAM GANGE: And -- and, sir,

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4309 thank you for that answer. Certainly, you can confirm 1 for me that -- that people like CAC or Green Action 2 Centre or MIPUG had no involvement with any of the 3 experts such as the Brattle Group or -- or Dr. Shaffer 4 5 or any of the other experts that -- that you were 6 looking at. Is that correct? 7 8 MR. ED WOJCZYNSKI: That would be 9 correct. What I -- I know we've had some previous efforts on DSM, and it -- I -- what I don't know is 10 whether there was any interaction between any of the 11 12 interested parties and any of the DSM experts. I know Mr. Kuczek has said that he'd be 13 14 willing to have something along that line at -- at 15 appropriate times, but we haven't done that in terms 16 of the resource planning itself, no. 17 MR. WILLIAM GANGE: Thank you. Those 18 are my questions. Thank you very much. 19 THE CHAIRPERSON: Thank you, Mr. 20 Gange. Mr. Orle, are you prepared to -- to... 21 22 (BRIEF PAUSE) 23 24 MR. GEORGE ORLE: I'm prepared to go. 25 And I would ask if we could just have a short break to

4310 organize some papers. Thank you. 1 2 THE CHAIRPERSON: Let's stretch for a few minutes. 3 4 5 --- Upon recessing at 3:10 p.m. 6 --- Upon resuming at 3:22 p.m. 7 THE CHAIRPERSON: I wonder if we could 8 9 get ready to start again, please. Mr. Bedford, I see we have a document before us. Do you wish to 10 11 acknowledge this document? 12 MR. DOUGLAS BEDFORD: Yes, please. We 13 are entering as Manitoba Hydro Exhibit number 137 an answer to Undertaking number 62. This flows from 14 15 testimony that I believe came up two (2) days ago, on 16 Tuesday afternoon. It is the current value of contracts awarded for the Keeyask Project to various 17 18 First Nations or a combination of First Nations and 19 their chosen joint venture partners, the total being 20 precisely three hundred and ninety-three million, six hundred and forty-three thousand, three hundred and 21 eighteen dollars (\$393,643,318). 22 23 And so to repeat, this is being filed 24 on the record as Exhibit number 137. 25

4311 --- EXHIBIT NO. MH-137: Response to Undertaking 62 1 2 3 MR. DOUGLAS BEDFORD: Those who have 4 the paper in front of them will see clearly that in 5 the attached chart we have obscured, or blacked out 6 rather, the actual details on a per-contract basis of who -- what each particular contract's worth. 7 8 And I can tell the -- tell you all that that information is being filed confidentially with 9 Board counsel, as we view it as commercially sensitive 10 11 information that touches not only my client, Manitoba 12 Hydro, but our four (4) First Nation partners. 13 In addition, we asked for some time 14 over this afternoon's break for Mr. Wojczynski and his 15 colleagues to grapple with Mr. Gange's request that 16 some more modelling or calculations be done. And I 17 know Mr. Wojczynski doesn't have a complete, 18 definitive answer, but he wants to give you an 19 explanation to where we are at, at the moment. 20 MR. ED WOJCZYNSKI: Yes, I had a quick 21 consultation with Green Action Centre, but we didn't 22 have time for a lengthy discussion. And then my 23 colleagues joined us at the -- and had a quick caucus 24 there. And I don't have a full response. 25 There were three (3) requests --

additional -- well, one (1) -- one (1) undertaking, 1 which was of -- of the three (3), there were three (3) 2 parts to it. The second one was to do a 750 tie-line 3 with a flat load after -- before new resources were 4 5 required, and then Keeyask and Conawapa -- pardon me, 6 Keeyask comes in, and then we have the WPS MP sales, 7 and we use those prices to -- for all the firm surplus, dependable surplus. That's the one we 8 9 already have started work on and we'll continue. 10 The first one I have a better 11 understanding, although not a full understanding after 12 the coffee time caucus with GAC, is they're -- they're 13 asking for us to look at a 750 megawatt tie-line, but 14 without Keeyask or Conawapa, and that we use DSM 15 effectively to meet it, and that -- the idea being 16 that we would utilize our existing hydro system to 17 supply that sale, the existing hydro system being 18 freed up by the DSM. 19 A -- a difficulty with that one, if I 20 understand properly what -- what has been asked of us,

is that the -- the new tie-line and the MP sale are very specifically tied to building a new hydro. And and part of what the -- the thinking about the 750 tie as envisaged by MP, and -- and then also WPS down the road, is that there would be new hydro available

on that transmission event -- line eventually, which 1 would provide them the kind of benefits on the -- the 2 wind integration and -- and their customers. 3 If we don't have Keeyask and -- and new 4 5 hydro, then right now, the contracts themselves would 6 no -- no longer proceed. I think what -- and -- and I have -- Green Action Centre is suggesting is that we 7 go back and renegotiate the 'W' -- the contracts so 8 9 that we don't need new hydro and that we carry on. 10 And -- and I -- what -- what I did understand is we're saying, Well -- Wuskwatim is 11 12 relatively new, and use that. Now, it doesn't meet 13 the definition of new hydro in the -- in the 14 contracts, so we're -- we're not seeing quite how we 15 could do that, and I don't know if Green Action Centre 16 can comment right now, or -- or maybe they could, and 17 we -- we may need to have a further discussion. 18 The third piece was that we -- we have 19 the load, again, the same load flattened out as per the discussion earl -- because of -- of aggressive DSM 20 21 programs that are successful, and that the load 22 flattened out such that we don't need new hydro, and 23 then we build the new hydro and it be sold on the 24 export market. In this case, it would be Keeyask and 25 Conawapa instead of just Keeyask.

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4314 That would not be a feasible situation 1 2 for two (2) reasons. One (1) is if we were pursuing a more -- a much more aggressive DSM program than DSM 2, 3 and we saw the -- the fruits of the investment 4 happening, we -- even if we had started on Conawapa in 5 2018 -- well, first of all, we wouldn't be starting 6 7 with Conawapa in 2018 if we're going with a super-8 aggressive DSM program, but secondly, if we had 9 started, and we -- Conawapa and we are seeing this 10 huge reduction, as we have done in the past with Keeya 11 -- with Conawapa, with Limestone, before we commit the 12 general civil contract, if we saw the load had dropped 13 off to the degree no new hydro was ever needed, and we 14 had already started Keeyask, I can assure you, 15 Conawapa would not be continuing. 16 So that's the first part of that one. 17 The second one is that if we have flat load forever,

18 and all we built is a 750 megawatt interconnection in 19 addition to what we have now, and so we've got both Keeyask and Conawapa surplus to anything ever needed 20 21 in Manitoba, plus we have the existing surplus energy 22 from the existing system, there's not enough tie-line 23 to effectively sell both of them, and that -- so 24 that's another reason why we just would not carry on 25 with Conawapa.

4315 It's -- Keeyask. We could certainly 1 handle Conaw -- Conawapa. So the third one we don't 2 see as a -- a realistic nor viable possibility under 3 the sense of extreme DSM. The -- the very -- so -- so 4 5 that's where we stand right now, and I don't know if 6 GAC would like to comment on that in some way, or perhaps they'd like to comment that we need further 7 discussion later, but that's -- that's where we stand 8 9 right now. 10 MR. WILLIAM GANGE: Thank you, Mr. 11 Chair. We'll try to sort this out. We're -- we're 12 happy that Mr. Wojczynski and his team is -- is 13 working on the first part of that process, and if we can work something else out, that's great, if not, 14 15 we'll arrive at that. Thank you. 16 MS. JESSICA SAUNDERS: My apologies, Mr. Chair. Before we move on, the MMF would ask, if 17 18 possible, that Manitoba Hydro provide some additional 19 comments on why it believes that the information redacted in the chart on page 2 of its Exhibit 137 is 20 21 considered commercially sensitive information as 22 defined in the terms of reference, if that's okay? 23 24 (BRIEF PAUSE) 25

4316 MR. DOUGLAS BEDFORD: Given all the 1 letters I wrote you about your terms of reference, one 2 would think I'd have them memorized, but I don't. So 3 4 if you'll bear with me for a moment, I'll just revisit 5 them. 6 7 (BRIEF PAUSE) 8 MR. SVEN HOMBACH: Ms. Saunders and 9 Mr. Bedford, if -- if it helps if Manitoba Hydro would 10 prefer to respond in writing to -- to think about 11 12 this, rather than answer it on the spot, the panel is 13 prepared to deal with the matter that way. 14 MR. DOUGLAS BEDFORD: Let's deal with 15 it that way. Thank you. 16 MS. JESSICA SAUNDERS: Agreed. Thank 17 you. 18 THE CHAIRPERSON: Mr. -- do you have 19 another quick question, Ms. Saunders? No? You're 20 okay? 21 MS. JESSICA SAUNDERS: No, thank you. 22 MR. SVEN HOMBACH: Mr. Chairman, if I 23 may have a moment? The court reporter asked whether 24 this would be a formal undertaking for Manitoba Hydro 25 to advise as to its position.

4317 MR. DOUGLAS BEDFORD: Yes, we can 1 treat that as a formal undertaking, and what I'm 2 undertaking to do is to provide in writing an 3 explanation as to why Manitoba Hydro believes that the 4 5 amounts which have been blacked out on Manitoba Hydro 6 Exhibit number 137 are commercially sensitive. Thank 7 you. 8 --- UNDERTAKING NO. 80: 9 Manitoba Hydro to provide 10 in writing an explanation 11 as to why Manitoba Hydro 12 believes that the amounts 13 that have been blacked out 14 in Exhibit MH-137 are 15 commercially sensitive 16 17 THE CHAIRPERSON: Thank you, Mr. 18 Bedford. Mr. Orle, please. 19 20 CROSS-EXAMINATION BY MR. GEORGE ORLE: 21 MR. GEORGE ORLE: Thank you, Mr. 22 Chairman, members of the panel. I don't have a 23 booklet of exhibits. I am referring to documents that 24 are already before the -- the panel and that have been 25 entered in, and I thought that I might save some paper

in that regard, considering what we have already. 1 2 Thirty-seven (37) years ago, when I started practice, I said I'd never take a case on 3 where the material to be filed weighed more than I 4 5 did, and, well, I've finally gotten one (1), thank 6 you. 7 MR. ED WOJCZYNSKI: I'm going to stay in this process long enough, you might gain enough 8 9 weight, it might turn the other way around. 10 MR. GEORGE ORLE: Thank you, Mr. 11 Wojczynski. I was going to direct my first questions 12 to you in any event. You -- you put forward Exhibit 13 Manitoba Hydro 129, and I believe it's either six (6) or seven (7) of -- of your portion -- seven (7). 14 15 And I note that from -- from the title 16 that you put on it, it was to deal with socioeconomic matters, but you -- you had a subtitle, "The Manitoba 17 18 Socioeconomic Benefit-Cost Integration." And I'm just 19 wondering, sir, how that -- how that jibes with what 20 the scoping out of the socioeconomic impacts were set 21 by the Board, and I'm referring to Board Order number 22 92/'13 at page 14. I believe that's on your screen. 23 And at the -- the bottom of the page, 24 for the purposes of the NFAT review, the parties, 25 consultants, expert witnesses, are to be bounded by

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4319 the following definition of 'socioeconomic impact and 1 benefits'. 2 3 And it goes on to say: "A critical analysis of the 4 5 socioeconomic impacts and benefits of 6 Manitoba Hydro's Preferred 7 Development Plan and alternative 8 plans, specifically, a high level 9 summary of potential effects to 10 people in Manitoba, especially 11 Northern and Aboriginal communities, 12 including such things as employment, 13 training, business opportunities, 14 infrastructure and services, and 15 finally, personal family and 16 community life and resource use." 17 In reviewing the material that's been 18 put before the Board, Mr. Wojczynski, I -- I think I 19 see the impacts from all of those socioeconomic 20 factors except for personal, family, and community life. 21 22 Is there something I'm missing in the -23 - the reports or the presentations in regards to that 24 particular aspect of the impact of the plan? 25 MR. ED WOJCZYNSKI: When we did the

1 matrix, which was in the same presentation -- I -- I 2 call it the 'matrix' -- it was the comparison -- the 3 socioeconomic comparison at -- at the level of and 4 depth that was being done in this comparison between 5 the alternatives.

6 We were referencing things like wor -wor -- worker -- I can't remember the term. What was 7 it called? Worker interaction. And that was one of 8 9 the prominent issues that had been identified, and the worker interaction effect would be on peoples' life, 10 and their -- their health, their safety, and so it was 11 12 a prominent issue that was -- effectively it was a 13 VEC, and it was the -- so it was used in that 14 comparison, and so that -- that would be meeting the 15 definition of personal, family, and community life. 16 The -- the discussion that had preceded 17 that in some depth on the Preferred Plan projects went 18 into that in more depth than just the -- a worker --19 the worker interaction, but -- but the work interaction had been identified as one (1) of the 20 21 three (3) key environmental socioeconomic issues, so that's what we focussed on in here. 22 23 MR. GEORGE ORLE: Okay. Were you 24 present at the public presentations on February 27th? 25 MR. ED WOJCZYNSKI: I was present in

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4321 the morning. In the afternoon I had the -- a funeral 1 of a close friend. 2 3 MR. GEORGE ORLE: You may have had an 4 opportunity to review the transcript from that day. 5 MR. ED WOJCZYNSKI: Yes. 6 MR. GEORGE ORLE: Would -- would you remember hearing the presentation by Counsellor 7 Wastesicoot? 8 9 MR. ED WOJCZYNSKI: Yes, and -- and I 10 read the transcript, and I'm familiar with -- with our First Nation partner member and the -- and the 11 12 thoughts he's expressed. 13 MR. GEORGE ORLE: Okay. And if you'll 14 take a look at the monitor, page 163, I'd like to go 15 to the bottom, page 21 -- or line 21. And what he 16 expressed to the panel was that: 17 "Our members are concerned with the 18 Preferred Development Plan will mean for electric bills. Electrical rates 19 20 are certain to go up." 21 And then on the following page, he uses 22 a -- a very specific example as to the -- the effect 23 in the community, and it's analogous to us sort of 24 saying the first sign of spring is seeing a robin. 25 Well, apparently to them, the first sign of spring is

seeing Manitoba Hydro coming to shut off the 1 electricity. 2 3 I would expect that that would be a socioeconomic effect upon the community? 4 5 MR. ED WOJCZYNSKI: That -- having 6 electricity shut off to individuals is a socioeconomic effect. I hasten to add to that that the rate 7 increases that are projected to happen, the vast 8 9 majority that is projected to happen regardless of 10 which plan is chosen. 11 MR. GEORGE ORLE: I appreciate that, 12 Mr. Wojczynski, but he wasn't alone on that 13 presentation day. There were a number of First 14 Nations members that came in. They were specifically 15 talking about what the effect was going to be upon 16 them as northerners, as First Nations people, and the fact that these increases -- these increases in the 17 18 bills were going to have a substantial effect upon 19 their lifestyle? 20 MR. ED WOJCZYNSKI: Yes, I -- and I heard that discussion. I also heard the -- the same 21 22 statements. In -- in general, we're talking about --23 I -- it may have been the word, 'doubling' of bills, 24 and what I heard, and -- was that -- that the concern 25 was they're hearing that -- that electricity rates are

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going to go up in -- in a manner over the next ten 1 2 (10) or twenty (20) years such that at some point the bills would be doubled, and they're extremely worried 3 about what that would do to them, and one can 4 5 understand that they would have that concern. 6 That -- what I did not hear was a differentiation between the rates increases that would 7 happen without the Preferred Plan and with the 8 9 Preferred Plan. What I heard was a concern about the -- the rate increases that would happen regardless of 10 -- of which plan was proceeded with, and the 11 12 presenters that -- that I recall and reading were not 13 making that differentiation. 14 MR. GEORGE ORLE: The scoping out of 15 the meaning of socioeconomic talks about the impacts 16 of Hydro's Preferred Development Plan and the 17 alternative plans. It doesn't say versus the 18 alternative plans. It asks that there be an analysis 19 done of what the impact is going to be, not the word 20 'cost' that you use in your title, but the impact. 21 And I would suggest to you, sir, that 22 an impact -- a socioeconomic impact is one that 23 affects the ability of a family or an individual to 24 maintain themselves in society. 25 If you come back MR. ED WOJCZYNSKI:

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to the discussion we had on the social benefit cost 1 analysis, first of all, when I introduced the -- the 2 first page in the presentation that you were alluding 3 to, that one, if you go back to the transcript and 4 5 read what I said there, when we talked about the 6 Manitoba Socioeconomic Benefit Cost, I was expressly 7 saying that that was the wording I was using there, but how we manifested it in the -- in the analysis was 8 9 with the social benefit cost analysis, and in that social benefit cost analysis, as Dr. Shaffer has 10 testified earlier, and is in the submission, it deals 11 12 with the quantitative impacts from the market 13 valuation, from the environmental, from the various 14 components.

15 It also deals with the non-16 quantitative, which is why it's a multiple accounts benefit cost evaluation, where he doesn't try or 17 18 attempt to quantify everything in dollar terms. Ιt 19 also deals with those non-quantifiable ones, which perhaps are some of the ones you're thinking of. 20 21 He, in addition, talked about the distributional impacts that could be occurring that 22 23 are not quantification ones either. So when we are 24 talking about having done an overall socioeconomic 25 benefit cost, or a social benefit cost, or a multiple

4325 accounts benefit cost. We are dealing with the non-1 quantitative as well as the quantitative. 2 MR. GEORGE ORLE: Okay. I know that 3 you haven't had a chance to recently read all of the -4 5 - the reports, but do you recall a CAC report, Stevens 6 and Simpson? 7 MR. ED WOJCZYNSKI: Yes. And I did read that a while ago. 8 9 MR. GEORGE ORLE: Okay. Refer you to 10 the last paragraph of page 11, the analysis by those 11 experts: 12 "The analysis has shown that an 13 annual increase of 2 percent in the 14 real price of electricity will result 15 in relatively small impacts on 16 household consumption and the overall 17 household balance. However, the 18 cumulative impact of seventeen (17) 19 years of annual 2 percent increases 20 will be substantially greater." 21 And if you take a look at the paragraph 22 above that, sir, it talks about what the analysis of 23 what those impacts may be: 24 "This analysis has shown that the 25 historical fluctuations in the price

4326 of electricity affected how 1 2 households allocated their spending 3 as well as the overall balance they achieved between their available 4 5 income and expenditures. The rising 6 cost of electricity resulted in lower 7 consumption of necessities, like 8 food, shelter, clothing and 9 transportation by low income 10 households." 11 Do you see that, sir? 12 MR. ED WOJCZYNSKI: I see that. 13 MR. GEORGE ORLE: Would you not agree with me that that specifically falls within the 14 15 parameters of the -- of the definition regarding 16 personal family and community life? 17 MR. ED WOJCZYNSKI: I would say that 18 generally it does. And I would also say that where 19 they're talking about a proposed real rate increase of 20 2 percent per year, that if you take -- and that's real rate increase, so that's above inflation, that if 21 you look at the 3.95 or 3.45, or even the 4.27 that 22 23 has been talked about in -- in this hearing, that all 24 of those fell -- fall generally in the category of a 25 real rate increase of 2 percent per year, and that is

the case with or without the Preferred Plan. 1 So whether it's the All Gas Plan or one 2 (1) of the other plans, you're already talking of 3 something in the realm of a 2 percent real rate 4 5 increase, and -- and so that -- that is true for all 6 the plans, not just the Preferred Plan, sir. 7 MR. GEORGE ORLE: I -- I acknowledge We're talking about the impacts of all of the 8 that. 9 plans, and specifically the Preferred Plan. And 10 further in that same study they do an analysis of the population breakdown in -- in Manitoba and in terms of 11 12 where they fall into low or next to low income. 13 And I'll just ask if you agree with me 14 and my -- my own arithmetic on this was adding the two 15 (2) categories together. But on reserve, First 16 Nations people, 75 percent of the on reserve fina --17 First Nations fall within the low or the next to low 18 category. 19 Would you have any reason to doubt 20 that? 21 MR. ED WOJCZYNSKI: Not at all. I'm 22 very aware of the low income situation of many of our 23 First Nation partners. I have spent time in -- in 24 each of the communities. I have met many of their 25 members. I have heard from both the leadership of the

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4328 communities and from members of the community how dire 1 their circumstances is for so many of their members. 2 3 And -- and one (1) of the reasons 4 Manitoba Hydro feels positively about proceeding with 5 the plan we have is we feel that, overall, our plan 6 will provide some positive contribution to alleviating that situation. It won't solve it. 7 8 DR. MARVIN SHAFFER: Could I just add 9 a comment on this? And it related to your earlier statement about the effect of rising electricity 10 prices on low income families. I did have a chance to 11 12 look at Stevens' and Simpson's work, and they did some 13 econometric analysis, which I assume is the basis for 14 that statement. 15 And I don't know if it's the time to --16 to start on this, but I -- I think that econometric 17 analysis was -- was -- had some serious methodological 18 flaws. And -- and the main one was that in economic 19 work you really want to have a theory, and -- and then 20 test the theory with your econometric, which is 21 basically statistical regression analysis. 22 And so while you say, you know, rising 23 electricity prices will cause people to reduce 24 spending on food -- on necessities, the same analysis 25 found a correlation that would cause people to spend

4329 more on tobacco and alcohol. 1 And -- and, so there was a lot of 2 correlations that really weren't explained by any 3 theory or -- or supposition, so while I'm not trying 4 5 to diminish the importance of rising electricity 6 pries, I think that the study on which that statement 7 is based is -- is not necessarily a solid one. 8 MR. GEORGE ORLE: Thank you. Ι 9 appreciate your opinion, and when -- when those experts come I'm sure we'll put that to them, and 10 11 hopefully I'll have it from the transcript because 12 when you first started talking you may as well have 13 been speaking Greek to me 'cause I have no idea what 14 that concept is that you're asking us to compare. But 15 I thank you for that. 16 The client that I represent, Mr. 17 Wojczynski, are all northern First Nations, and you'll 18 recall that they make up approximately sixty-five 19 thousand (65,000) people in Manitoba. That's a fair statement? I'm not --20 21 MR. ED WOJCZYNSKI: Yes. 22 MR. GEORGE ORLE: -- exaggerating the 23 number. 24 MR. ED WOJCZYNSKI: Yes. MR. GEORGE ORLE: That would be a 25

4330 significant amount of people, a significant amount of 1 ratepayers in there? 2 3 MR. ED WOJCZYNSKI: A significant number of people, important people, and significant 4 5 amount of ratepayers, yes. 6 MR. GEORGE ORLE: And yet when -- when 7 you do your analysis you -- you lump all of your ratepayers in together. There's no differentiation 8 9 between whether they're First Nations, whether they're First Nations on a reserve, whether they're low 10 11 income. They're all lumped together into that one (1) 12 category. 13 MR. ED WOJCZYNSKI: When we did our --14 our rate analysis we lumped them all together, yes, 15 and -- well, yes. 16 17 (BRIEF PAUSE) 18 19 MR. GEORGE ORLE: Did Hydro do any 20 studies, or -- or prepare any documents taking a look 21 at what the specific effect would be on a rate 22 increase on -- on First Nations people living on 23 reserve? 24 MR. ED WOJCZYNSKI: Perhaps before we 25 fully answer that, maybe I can just comment that one

4331 (1) of the things we did was follow the terms of 1 reference given to us, and, so we -- we -- the 2 socioeconomic impacts and benefits to northern and 3 Aboriginal communities, and we lumped them all 4 5 together and we didn't differentiate on -- on another 6 basis. 7 But could you repeat your last question there, please? 8 9 MR. GEORGE ORLE: In putting together 10 the -- the proposal, did Hydro identify or make any analysis of the effect of the rate increases upon 11 12 First Nations ratepayers? 13 MR. ED WOJCZYNSKI: We only determined 14 the value -- the rate increases across the board. The rate design process over time will distinguish between 15 16 the different categories of ratepayers. Whether they 17 all match the -- the average or not is something that 18 will have to be determined in the future. 19 MR. GEORGE ORLE: A number of the 20 First Nations are -- are not only residential 21 ratepayers but they have general service ratepayers 22 within those communities? 23 MR. ED WOJCZYNSKI: Yes. 24 MR. GEORGE ORLE: That includes things 25 such as the -- the schools, the administration

building on the -- on the reserve? 1 2 MR. ED WOJCZYNSKI: Yes. 3 MR. GEORGE ORLE: Did Manitoba Hydro 4 do any analysis as to what the effect of twenty (20) years of rate increases might do to the -- the ability 5 6 to maintain a personal family or community lifestyle 7 in response -- in respect to the general service customers? 8 9 MR. ED WOJCZYNSKI: We -- we did not differentiate on that basis, but we're also aware that 10 rate increases of whatever they are, 2 percent real, 11 12 we'll use that 'cause that's what the discussion is 13 centering on, that that would be difficult for all low 14 income people, and we recognize there's a 15 disproportionate number of low income people on -- on 16 the reserves. 17 And we also recognize that in Northern 18 Manitoba costs are generally higher compared to some 19 of the other jurisdictions, say, in Southern Manitoba. 20 We are -- we are very aware of that, 21 but we did not see as part of the scope of the -- of this exercise to differentiate between the customers 22 on that basis. 23 24 It is understood, generally, that 25 whatever rate increases occur, regardless of which

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Plan we're in, that some will feel the brunt of that 1 more than others, and -- and our objective in this 2 exercise was to assess the rate increases of the 3 population as a whole and then recognize that over the 4 5 long term we're looking to have lower rate increases with the Preferred Plan than higher rate increases. 6 7 MR. GEORGE ORLE: Has Hydro --Manitoba Hydro taken any steps to mitigate any of 8 9 these impacts that are going to be disproportionally 10 felt by certain income levels? 11 MR. ED WOJCZYNSKI: There was a 12 question earlier today, too, talking about the low 13 income, and what I had said, There would have to be a 14 discussion by someone who is more knowledgeable than 15 those on this panel here today, and that would have to 16 be the finance panel. It's coming back on April 4th, 17 and the economics panel, so I think that question is 18 better put to -- to that. 19 We've already agreed earlier that --20 that they will -- that will be highlighted for them 21 for when they come back. 22 MR. GEORGE ORLE: Now, Mr. Wojczynski, 23 you -- you've sort of quarterbacked this entire Application. At any point in it did you direct or --24 25 or ask any of the -- of the participants to direct

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4334 their minds to mitigation factors in regards to rates 1 for particular ratepayers? 2 3 MR. ED WOJCZYNSKI: I -- as the quarterback to the NFAT, I did not give any such 4 5 direction, and the reason I did not give such 6 direction is that that's already an ongoing issue for Manitoba Hydro regardless of which development plan is 7 pursued. 8 9 As I've indicated earlier, regardless 10 of which plan we have, we're going to see something in 11 the order of the 3.5/4 percent rate increases, so the 12 concern about low income is there regardless of which 13 plan we pursue, and we didn't see that as something to 14 differentiate between the plans. 15 MR. GEORGE ORLE: I don't mean this to 16 sound trite, nor do I intend it in any way to be a 17 slight, but when you dealt with the macro 18 environmental effects, you specifically singled out 19 what you thought were areas that were of concern, and 20 then you put into place certain mitigation measures. 21 Why would you not think that in the 22 socioeconomic that you wouldn't want to identify the 23 areas where there may be a concern and at least try to see what there may be in terms of options? 24 25 MR. ED WOJCZYNSKI: That's a good

4335 question and I think there's a good answer to that, 1 and that is when we are looking at the macro 2 environmental and socioeconomic, we were looking at 3 those components -- I'm -- I'm thinking in the 4 5 environmental side, the VECs, but on those components 6 which are -- are specific to each of the plans and --7 and were different between the plans. Where we have common issues between the 8 9 plans, we didn't dwell on those or deal with those. I 10 just -- off the top of my head, we have all kinds of other impacts of -- that Manitoba Hydro interacts with 11 12 that are not unique to the individual plans, so we 13 don't deal with them in the NFAT because they're 14 common to the plans. 15 So that's why we did not focus on that 16 issue. 17 MR. GEORGE ORLE: Mr. Wojczynski, 18 you're -- you're aware that the majority of the First 19 Nations in MKO are either primarily or almost fully 20 dependant upon federal government comprehensive 21 funding arrangements? 22 MR. ED WOJCZYNSKI: Yes, I worked for 23 INAC for some months in my university days. I went to 24 most of the reserves in Manitoba teaching fire 25 prevention and electrical safety. I saw the

conditions. I talked to the people. I was very 1 impressed with their situation and I'm very aware of 2 what you're describing. 3 4 MR. GEORGE ORLE: Okay. Has Manitoba 5 Hydro taken any steps either to discuss with the 6 federal department or to investigate whether or not rate increases for over twenty (20) years are 7 something that can be absorbed by these comprehensive 8 9 funding agreements? 10 MR. ED WOJCZYNSKI: I'd be the wrong person to answer that question. We'd have to refer 11 12 that to the finance panel, but I would repeat that we 13 wouldn't see this as being something that is specific 14 to any one of the plans. It would be the case for all 15 the plans. 16 MR. GEORGE ORLE: Thank you, Mr. Wojczynski. Those are all the questions I have. 17 18 Thank you, members of the panel. 19 THE CHAIRPERSON: Thank you, Mr. Orle. 20 I'll now ask M. Monnin, s'il vous plait? 21 MR. CHRISTIAN MONNIN: Merci, M. 22 President. Before I start I just have one (1) 23 administrative matter I'd like to deal with. Earlier 24 today I circulated a compendium of the CVs of the IECs 25 who will be appearing starting next Monday. I gave

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4337 two (2) copies to Mr. Simonsen. I have other hard 1 copies here, if someone wants a memento from today's 2 proceedings. 3 I've also filed an E-copy with -- with 4 5 the PUB, so that is ready for next week. So if we 6 could just introduce that as the next exhibit, which would be Hill Co. Number 8. 7 8 --- EXHIBIT NO. HILL-8: CVs for IECs appearing 9 10 March 31 11 12 MR. CHRISTIAN MONNIN: And I will 13 caution that there may be some additional CVs for the same individuals that are in -- in the -- the 14 15 compendium. Some of the CVs I've asked -- I've asked 16 some ICs to provide additional CVs, frankly more 17 robust ones for these proceedings. 18 With respect to any questions that I 19 have today, Mr. President, most of them would just be 20 attributable to ego, to wanting to get myself on the 21 transcript. Much of what is canvassed today has caused me to be part of the 'me too' brigade, so I 22 23 really don't have any questions. 24 I thank you for the panel for their 25 patience, and that's it. Thank you.

4338 1 THE CHAIRPERSON: Merci, Me. Monnin. Me. Hacault, s'il vous plait. 2 I just have some 3 MR. ANTOINE HACAULT: 4 general comments, members of the panel. With respect 5 to the information which was received with gratitude 6 on economics, we may have some questions. InterGroup's principle who's usually with me is -- is 7 not with me today. 8 9 And I quess we can discuss with 10 Manitoba Hydro -- some of these questions I would expect would be useful to have dealt with in advance 11 12 of the April 4 hearing which we anticipate having. 13 I've been trying to go through it, and I have some questions but at the risk of sounding stupid and 14 15 asking them I'd prefer to have a chance to consult 16 with InterGroup. 17 The second point is with respect to the 18 financial information to be filed. As you know, 19 members of the panel, InterGroup as consultants to MIPUG had done substantial analysis to the financial 20 21 information, and that's part of the Application. And 22 it's my understanding that it would take them about a 23 week to do their analysis once they receive the 24 information. 25 So I just put that on the record. Ι

4339 know Manitoba Hydro has been trying to do the best it 1 can, and InterGroup will try to do the best it can to 2 look at the material and -- and provide reasonable 3 analysis within a reasonable time. But I wanted to 4 5 express a concern about not having the material at 6 this time, and putting the consultants from MIPUG in practically an impossible position to be able to 7 properly analyze and deal with that information by the 8 9 date that we have. 10 So I guess we'll take it step-by-step 11 as to when we receive it, and whether or not any of 12 the information can be provided in an Excel format, 13 which might expedite matters. I know it's not 14 questions, but I just wanted to state the concerns on 15 -- on the record so that parties aren't under the 16 impression that time doesn't matter for us. 17 THE CHAIRPERSON: Merci, Me. Hacault. 18 MR. SVEN HOMBACH: I don't have any 19 other administrative matters to address, Mr. Chairman, 20 so unless there's any remaining undertakings to be 21 addressed by Manitoba Hydro counsel, I suggest that 22 the societal issues panel be excused for the time 23 being. 24 THE CHAIRPERSON: Okay. Mr. Bedford, 25 do you have any comments?

4340 MR. DOUGLAS BEDFORD: 1 No. 2 3 (PANEL STANDS DOWN) 4 5 THE CHAIRPERSON: Mr. Williams, 6 please? 7 MR. BYRON WILLIAMS: This has nothing to do with this particular panel. I -- I'm just 8 9 wondering, is there any update in terms of the Potomac and -- and the issue of confidential information, in 10 11 terms of where we are in -- in a -- achieving a 12 determination of that issue? 13 THE CHAIRPERSON: Perhaps Mr. Hombach 14 can comment on that. MR. SVEN HOMBACH: I will, Mr. 15 16 Chairman. And thank you for your question, Mr. Williams. The issue of redactions to the Potomac 17 18 report is expected to be addressed in the confidential 19 session on Tuesday when Potomac is going to be in the 20 room. Currently no changes to the existing redactions 21 are anticipated before that time frame, aside from 22 what has already been posted. 23 MR. BYRON WILLIAMS: We may have some 24 comments about that on Monday morning, but I'll 25 reserve our position till then.

1 THE CHAIRPERSON: I don't believe 2 there's anymore business to conduct, so I want to 3 thank the -- the witnesses that appeared before the --4 I'm sorry.

5 MR. CHRISTIAN MONNIN: Sorry, Mr. I might -- it might be to the benefit of 6 President. all if I can just give a little bit more information 7 about Potomac's presentation on Monday and Tuesday. 8 9 Mr. Sinclair will be giving the direct-evidence. Dr. Patton is coming in for Tuesday. We know we had to 10 change that schedule. So his schedule allows for him 11 12 to come Tuesday. I believe he'll be here for one 13 o'clock. And they both have a plane on Tuesday at 14 5:45 p.m.

15 THE CHAIRPERSON: So unless there's 16 any additional business I want to provide my closing 17 comments. I want to thank the representatives from 18 the First Nations. It was very good for the panel to 19 hear directly from you. I think it was very useful. 20 So thank you very much for taking the time to come in 21 and meet with us, because it -- we needed to hear from 22 the First Nations on -- on the issues. 23 And I want to thank Dr. Shaffer, and I 24 also want to thank Mr. Brandson for coming to discuss

25 issues with us. And the members of the -- of the

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4342
   panel from Manitoba Hydro, we thank you very much.
 1
 2 I'm not sure if we'll have a chance to meet with you
   again, but you've done a very capable job. Thank you
 3
   very much for your work up to now. So thank you very
 4
 5
   much.
 6
                   So to the rest of you, have a good
   evening. We'll see each other again -- well, most of
 7
   us, on Monday morning at nine o'clock. Thank you.
 8
 9
10
   --- Upon adjourning at 4:06 p.m.
11
12 Certified correct
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18 Ms. Cheryl Lavigne
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