

MANITOBA CLEAN ENVIRONMENT COMMISSION

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1 Friday, October 5, 2012

2 Upon commencing at 9:00 a.m.

3 THE CHAIRMAN: Good morning. Welcome  
4 to day five of our hearings, the final day of our  
5 opening week.

6 Today, first up we have Mr. Williams  
7 for the Consumers Association who will be the  
8 final participant examining Hydro officials on the  
9 site selection EA. That will be followed by some  
10 questions from the panel. Following that, we will  
11 have, or may have, some examination on Aboriginal  
12 engagement.

13 We were informed this morning that  
14 Mr. Madden has come down with what he describes as  
15 a pretty bad flu, so he won't be here today which  
16 means that we'll have to give him an opportunity  
17 in late October to examine on the Aboriginal  
18 engagement. I'm not sure that there will be any  
19 other participants examining on that. There may  
20 be some questions from the panel, we will see.

21 So if we get through that, which it  
22 appears we will, we will then move to the site and  
23 line construction with Messrs. Elder and Penner.

24 Ms. Mayor, you had some opening  
25 comments, some undertakings?

1 MS. MAYOR: Yes. Thank you,  
2 Mr. Chairman. Manitoba Hydro is just going  
3 through its undertakings, and as we are able to  
4 answer them, thought it would be of assistance to  
5 provide the answers.

6 On October 3rd in the morning,  
7 Ms. Zebrowski had given an undertaking to  
8 Mr. Madden with respect to the dates of the  
9 Aboriginal traditional knowledge workshops. So we  
10 have provided to Ms. Johnson a copy of that  
11 document. Mr. Madden also received it yesterday  
12 afternoon, but if we could have that filed as an  
13 exhibit. In terms of the other participants or  
14 members of the public, there are copies at the end  
15 of my table towards the middle. They can receive  
16 copies as well. So if we could have that filed as  
17 the next Manitoba Hydro exhibit.

18 THE CHAIRMAN: Thank you.

19 MS. JOHNSON: That would be MH 052.

20 (EXHIBIT MH 052: Answer to  
21 undertaking re dates of Aboriginal  
22 traditional knowledge workshops)

23 MS. MAYOR: Thank you. Mr. Neufeld as  
24 well had given an undertaking on October 3rd, in  
25 the afternoon, with respect to the percentage of

1 private lands that were held by the Metis. I have  
2 been informed that the land titles held by Metis,  
3 that information is not in Manitoba Hydro's  
4 possession. Cultural affiliation is not something  
5 that appears on a land titles document, so we  
6 haven't been able to ascertain that. As well, it  
7 wasn't a piece of information or a question that  
8 was asked at the landowner information sessions  
9 during round 4. So, unfortunately, we are not  
10 able to provide that information.

11 THE CHAIRMAN: Thank you.

12 MS. MAYOR: And Mr. Joyal was asked by  
13 Mr. Meronek in the afternoon of October 3rd about  
14 the number of mailings that were sent out in the  
15 July 26, 2010 letter. The information that we  
16 have is that 610 affected title holders that were  
17 directly traversed by our line were sent letters.  
18 And as well, there were 767 land title holders at  
19 the half mile that were sent letters. So that was  
20 the information provided by Mr. Joyal.

21 And the last undertaking that we will  
22 answer this morning, Mr. McGarry was asked by  
23 Mr. Madden about additional information regarding  
24 heritage sites identified along segment C16. We  
25 have provided to Ms. Johnson by way of the next



1 exhibit a map and accompanying table which  
2 identifies 46 archeological sites, one centennial  
3 farm, and eight plaques, commemorative plaques,  
4 and those are contained within the PPR. So if we  
5 could have that filed as the next exhibit. And  
6 copies of those documents are also at the end of  
7 the table.

8 MS. JOHNSON: That will be MH 053.

9 (EXHIBIT MH 053: Answers to  
10 undertakings re numbers of mailings on  
11 July 26 and heritage sites along  
12 segment C16)

13 MS. MAYOR: Thank you. And that's all  
14 for this morning.

15 THE CHAIRMAN: Thank you. We'll turn  
16 it over to Mr. Williams.

17 MR. WILLIAMS: Good morning,  
18 Mr. Chair, members of the panel, and good morning  
19 to the Hydro panel.

20 Mr. Chairman, just one bookkeeping  
21 matter. To assist a little later in my  
22 conversation with Manitoba Hydro, we have  
23 presented a two-sided copy document titled Section  
24 Four Score Card for Illustrative Purposes. I'm  
25 less familiar with the procedure for this

1 tribunal. I would suggest it's not really  
2 evidence, it's merely for illustrative purposes.  
3 I leave it to you and Ms. Johnson whether to  
4 assign it an exhibit number or not. And my  
5 understanding is, I have shared it with my friend  
6 from Manitoba Hydro and they do not object to its  
7 introduction for the purposes of illustration.

8 THE CHAIRMAN: That's fine with me.

9 MR. WILLIAMS: Okay. I have noted the  
10 practice of other counsel to refer you to the  
11 Powerpoint presentation of Manitoba Hydro. I will  
12 not be doing that. We will have some conversation  
13 a bit later on in terms of the route selection  
14 matrix with regard to section four, so Manitoba  
15 Hydro should feel free at any time to put that up,  
16 because we'll be bouncing back and forth to it.

17 Good morning, Mr. McGarry, I think  
18 we'll lead off with you. And I am sad to say I  
19 didn't get to hear the chat about tsunamis and  
20 tornadoes on Monday, but I have read with pleasure  
21 both your Powerpoint and your and Mr. Dyck's  
22 evidence on October 2nd. And without asking you  
23 to elaborate yet, you'll recall in the course of  
24 your oral evidence on October 2nd, discussing your  
25 efforts to make allowance for the independent

1 evaluation of each individual section of the route  
2 selection, in other words, sections one through  
3 13. Do you recall making reference to that, sir?

4 MR. MCGARRY: Yes. Good morning  
5 Mr. Chairman, Commissioners, Mr. Williams and  
6 participants. Yes, I think that's correct.

7 MR. WILLIAMS: And would I be correct  
8 in suggesting to you, sir, that during the initial  
9 stages of the process, and by process I mean the  
10 identification of the three main alternative  
11 routes, Manitoba Hydro identified a number of  
12 connections between the three main alternative  
13 routes to allow for routing options between them?  
14 Would that be accurate, sir?

15 MR. MCGARRY: That is correct.

16 MR. WILLIAMS: And in terms of the map  
17 that appears in section four, would there be  
18 routing options for connectivity purposes on that,  
19 sir?

20 MR. MCGARRY: Yes, BB2 would be one  
21 sub route, AC1 would be considered a sub route for  
22 connectivity.

23 MR. WILLIAMS: And sir, just let me  
24 orient myself and perhaps the panel to this. If I  
25 look to the top of the map, the A9 route would be

1 towards the northern most section of the map.

2 Would that be right, sir?

3 MR. MCGARRY: Yes.

4 MR. WILLIAMS: And towards the bottom  
5 of this particular segment, that would be the B  
6 alternative, correct?

7 MR. MCGARRY: That is correct.

8 MR. WILLIAMS: And in the middle, we  
9 have the C alternative set out, correct?

10 MR. MCGARRY: Correct.

11 MR. WILLIAMS: And you identified to  
12 me as one of the connectivity routes, I believe it  
13 was AC1, running from the northeast to the  
14 southwest towards C; is that correct, sir?

15 MR. MCGARRY: That's correct.

16 MR. WILLIAMS: And in terms of  
17 developing these connections to preserve routing  
18 options, Mr. McGarry, am I correct in suggesting  
19 that Manitoba Hydro recognized that there was an  
20 issue or a risk flowing from your evaluation of  
21 each individual section, that depending upon the  
22 outcome of the preceding section or the subsequent  
23 section, the routes might not meet. Is that  
24 essentially the purpose, sir?

25 MR. MCGARRY: That's correct.

1                   MR. WILLIAMS: And just to illustrate,  
2 we'll pretend we have a section X. If your  
3 evaluation of section X resulted in a selection of  
4 route B, and your evaluation of the adjacent  
5 section Y resulted in your selection of route A,  
6 you might need to make provisions for a crossover  
7 between these routes?

8                   MR. MCGARRY: That's correct. And we  
9 did. If you look at sections 10 and 11, I believe  
10 there is a crossover between section, the primary  
11 route C and primary route A. In fact, we had to  
12 develop new segments to allow that crossover.

13                   MR. WILLIAMS: Okay. And we'll come  
14 back to section 10 and 11 in just one second, sir.  
15 Given that the crossover from one route to another  
16 would involve additional lines, would I be correct  
17 in saying that there must be a direct cost in  
18 terms of line length?

19                   MR. MCGARRY: There is potential for  
20 that, but each segment would have to be looked at  
21 and that was evaluated as part of the technical  
22 criteria.

23                   MR. WILLIAMS: And we are going to  
24 come back to that in just a second, sir.

25                   And presumably these connectivity

1 lines might raise additional environmental issues  
2 as well, agreed?

3 MR. MCGARRY: Yes, and they were  
4 reviewed. The segments you see on this particular  
5 chart, keeping in mind this is the preliminary  
6 preferred route stage review alternatives, which  
7 the life of this particular chart, as I indicated  
8 before, was in early 2010 to arrive at a  
9 preliminary preferred route.

10 MR. WILLIAMS: And when you say  
11 they're evaluated, for example, at the bottom of  
12 the matrix for section four, I see a reference to  
13 AC1?

14 MR. MCGARRY: Correct.

15 MR. WILLIAMS: And just so I  
16 understand your evidence from October 2nd,  
17 Mr. McGarry, you were making the point that for  
18 the purpose of rating route sections and recording  
19 these results on the route selection matrix, you  
20 did that without reference to how any particular  
21 section matched up with the preceding or following  
22 section in that initial matrix, correct?

23 MR. MCGARRY: Yes, that was the  
24 intention to rate each section on its own.

25 MR. WILLIAMS: Okay. And you raised

1 it on Tuesday because you didn't want the  
2 Commission or participants to worry that there was  
3 any bias in, or that the selection of a route  
4 choice in any particular segment would be biased  
5 by the choice made with regard to a preceding or  
6 following section, correct?

7 MR. MCGARRY: Yes, that was the  
8 intention of organizing and rating in that  
9 fashion.

10 MR. WILLIAMS: And I'm quite sure you  
11 don't need a reference to this, sir, it's at page  
12 732 of your chapter seven if you felt the need,  
13 but I'm sure you don't. In terms of focusing on  
14 the initial selection of the preliminary preferred  
15 route, my understanding obviously you entered the  
16 ratings into the RCM matrix, and from that you did  
17 an initial numeric rating for each particular  
18 segment within a section, sir?

19 MR. MCGARRY: Correct.

20 MR. WILLIAMS: And then you fed in  
21 consultation input from multiple sources to  
22 develop an overall evaluation for route selection,  
23 agreed?

24 MR. MCGARRY: Yes, that's correct.

25 MR. WILLIAMS: And then it went to

1 your committee. And with all the information and  
2 all the data compiled into the matrix, the  
3 committee collectively decided on the selection of  
4 a route in each of the 13 sections, agreed?

5 MR. MCGARRY: Correct.

6 MR. WILLIAMS: And you have already  
7 mentioned sections 10 and 11, but the committee in  
8 making its decision you say had to consider  
9 decisions made in adjacent sections for continuity  
10 of a preliminary preferred route, in certain  
11 cases?

12 MR. MCGARRY: In certain cases, yes.

13 MR. WILLIAMS: So based on your  
14 conversation, both with Mr. Meronek and what you  
15 have just said today, I am pretty confident that  
16 one of those sections where you made provision for  
17 continuity of a preliminary and preferred route  
18 was between section 11 and section 10. Is that  
19 correct?

20 MR. MCGARRY: Yes, we added additional  
21 segments to allow for that connectivity.

22 MR. WILLIAMS: And were there any  
23 other sections apart from that, sir, where you  
24 chose to make provision for continuity of a  
25 preliminary preferred route?



1 MR. MCGARRY: I would have to check.  
2 My recollection is we did create new segments in,  
3 I believe section seven near the Arden Ridge. My  
4 colleague here can maybe check quickly. Some  
5 segments were added, I believe between section  
6 seven and eight to consider some connectivity and  
7 other issues.

8 MR. DYCK: Yes, that was in section  
9 eight.

10 MR. WILLIAMS: Okay. So the two  
11 sections where provision was made for continuity  
12 would be from section 11 to section 10, and from  
13 section eight to section seven; is that correct?

14 MR. MCGARRY: Those are ones we have  
15 identified currently. We'd have to check all 13  
16 to confirm that.

17 MR. WILLIAMS: Okay.

18 MR. DYCK: Let me just add that in  
19 some cases, the connectivity, and there were  
20 sections developed to examine alternative options.  
21 That's still at the alternative option stage, and  
22 it wasn't necessarily that that became a preferred  
23 route. There was an evaluation that was done to  
24 further define and further examine it.

25 MR. WILLIAMS: And I thank both

1 gentlemen for your answers.

2                   And Mr. McGarry, it may be me in my  
3 advanced age, but I'm not hearing you very well.  
4 I'm soft spoken as well. So if I could ask you to  
5 just speak a little louder, that would be of some  
6 assistance to me.

7                   MR. MCGARRY: Yes, I'll try and do  
8 that, Mr. Williams.

9                   MR. WILLIAMS: I certainly don't mean  
10 it as an admonishment but I just want to make sure  
11 I can hear you, sir.

12                   MR. MCGARRY: I've had the same  
13 comment from my family occasionally. I know  
14 that's hard for some of them to believe.

15                   MR. WILLIAMS: We are going to test my  
16 technical ability, sir, and I'm not very  
17 confident. Mr. McGarry, if you see me flailing  
18 around ineffectively, it won't be your answers, it  
19 will be the technology that is causing the  
20 flailing.

21                   MR. MCGARRY: Thank you, Mr. Williams,  
22 I'm relieved to hear that.

23                   MR. WILLIAMS: I received answers from  
24 both you, Mr. McGarry, and you, Mr. Dyck. So,  
25 Mr. McGarry, you said that in two of the sections,

1 you were confident that for your preliminary  
2 preferred route that there had been some  
3 continuity adjustments, and you'd have to check  
4 back to see if there were any others. Did I hear  
5 you correctly on that, sir?

6 MR. MCGARRY: That's correct.

7 MR. WILLIAMS: Would you undertake to  
8 do so, sir, to review your records to see if  
9 adjustments were made in any other section?

10 MR. MCGARRY: We can do that.

11 MR. WILLIAMS: I'll get back,  
12 Mr. Dyck, to you in a second about the evaluation  
13 at the preliminary alternatives stage. But  
14 Mr. McGarry, or to Mr. Dyck, whichever, in terms  
15 of the adjustment from 11 to 10, for example, was  
16 a consequence of that that you move from a segment  
17 with a lower numeric rating to -- let me put this  
18 another way. Was a consequence of it that the  
19 section selected because of the continuity issue  
20 ultimately was different than you would have  
21 selected without the continuity issue?

22 MR. MCGARRY: If I understand you  
23 correctly, you're wondering if the adjacent  
24 section decision had a decision on a segment on  
25 either side of it?

1 MR. WILLIAMS: It wasn't a very well  
2 asked question, so I apologize for that.

3 In terms of the continuity, whether it  
4 was sections 10 and 11 or section seven and eight,  
5 was a consequence of that that a section with the  
6 lower numeric evaluation was replaced by a section  
7 with the higher numeric evaluation?

8 MR. MCGARRY: I'd have to check on  
9 that. But as we stated before, numeric rating was  
10 not the only criteria by design, and that's why  
11 there were multiple parts to that chart on how we  
12 arrived at a final segment decision. And you'll  
13 see in certain sections numeric scoring is  
14 extremely close. And we felt as a study team that  
15 to make a selection strictly on numerics would not  
16 capture the whole picture and all the criteria.

17 MR. WILLIAMS: I understand that point  
18 totally, sir, but you will review your record to  
19 identify if that has happened in those sections  
20 where continuity issues arose?

21 MR. MCGARRY: My understanding was  
22 your first request was to identify discontinuities  
23 between sections and to identify those segments,  
24 Is this another request?

25 MR. WILLIAMS: I think it's the same

1 one, sir, that's fine.

2 I'm interested if you can explain to  
3 me with a particular section how exactly that  
4 connectivity issue was -- actually, I think the  
5 undertaking should answer that, sir, so I'll move  
6 on.

7 Mr. McGarry, I want to draw your  
8 attention to what I've titled the section four  
9 score card for illustrative purposes. And  
10 Mr. McGarry, I want to start out by just  
11 indicating, I don't want to diminish in any way  
12 the importance of the issues at stake in section  
13 four, but I wonder if you would agree with me that  
14 there has been an almost dizzying series of  
15 segments and options proposed for that particular  
16 segment?

17 MR. MCGARRY: Yes, I would agree with  
18 you, although I'm not sure about the dizziness,  
19 but there certainly is a lot of segments to  
20 consider.

21 MR. WILLIAMS: Maybe I was reflecting  
22 more on its effect on me than on you, sir.

23 And so I just want to make sure for my  
24 client's sake that they understand kind of what's  
25 been going on in that section. And if you'll bear

1 with me, I just want to pull out my matrix as  
2 well.

3 To start with, in the original  
4 deliberations regarding the initial preferred  
5 route, at the top of the front of the section four  
6 score card, you considered a number of segments  
7 listed at the top. There are sections A8, A9, B9,  
8 all the way through to section AC1. Is that  
9 correct, sir?

10 MR. MCGARRY: That's correct.

11 MR. WILLIAMS: And then as I  
12 understand it, there was an additional project and  
13 some additional new alternatives that were  
14 considered, including sections B9(1), B9(2) and  
15 B10(1), is that correct, sir?

16 MR. MCGARRY: That's correct.

17 MR. WILLIAMS: And in your materials,  
18 we don't need to turn there, but there would be a  
19 matrix provided for those as well. You'll recall  
20 that, sir?

21 MR. MCGARRY: Yes, there's a table for  
22 that.

23 MR. WILLIAMS: And the fun didn't stop  
24 there, though, sir, as I understand it, in that  
25 there were additional segment designations

1 relating to section four that were considered,  
2 being P1 and P2, which effectively were intended  
3 to modify sections B9 and BB2; is that right, sir?

4 MR. MCGARRY: That's correct, P1 and  
5 P2.

6 MR. WILLIAMS: If we go to the next  
7 page, and let me stop you there for just one  
8 second, sir. Is there a matrix related to P1 and  
9 P2 in Manitoba Hydro's possession?

10 MR. MCGARRY: No, it wasn't put into a  
11 matrix because those segment revisions were going  
12 to public review in round four as part of the  
13 preliminary preferred route.

14 MR. WILLIAMS: And I don't mean this  
15 as a criticism, sir. For the purposes of  
16 comparing P1 and P2 to the earlier contenders,  
17 what kind of mechanism did Manitoba Hydro do, if  
18 not a matrix?

19 MR. MCGARRY: It was primarily done by  
20 committee discussion review for a number of  
21 factors, community, recreation, caribou. I  
22 believe there are listed in IR 003(c) where we  
23 review that, and IR 0159(a).

24 MR. WILLIAMS: Yes. I have taken a  
25 peak at those, sir. Now, after that, as I

1 understand it, there were additional options  
2 presented, being options one through option four;  
3 is that right?

4 MR. MCGARRY: That's correct.

5 MR. WILLIAMS: And then for the actual  
6 route itself, there was a final adjustment. And I  
7 put it here under adjusted route. So there would  
8 have been one more adjustment after that, sir?

9 MR. MCGARRY: Sorry, one more what?

10 MR. WILLIAMS: After the final  
11 preferred route was identified, there was  
12 actually, as a result of the analysis of the  
13 additional four options and input received from  
14 stakeholders, there was another adjustment to the  
15 final preferred route for this particular segment?

16 MR. MCGARRY: The adjustment for the  
17 final preferred route was the selection of one of  
18 those four options.

19 MR. WILLIAMS: Okay. And my  
20 understanding is that Hydro, and I certainly don't  
21 want to get into details, but is in some sort of  
22 discussion with Conservation in terms of routing  
23 through section four, or anticipating discussions?

24 MR. MCGARRY: The discussions we had  
25 relating to the review of those options, they were



1 developed for a discussion with mining industry  
2 and representatives of Mining branch. My  
3 colleague just pointed out too we did have  
4 discussions with Manitoba Conservation related to  
5 caribou in the area as well.

6 MR. WILLIAMS: Are there any other  
7 additional options that Manitoba Hydro has  
8 developed with regard to this particular segment?

9 MR. MCGARRY: No, just what you have  
10 seen there and we have presented.

11 MR. WILLIAMS: Now, Mr. McGarry, there  
12 is no dispute that boreal woodland caribou are a  
13 critical VEC with important implications for  
14 segment routing in a number of sections in chapter  
15 seven?

16 MR. MCGARRY: Woodland caribou was an  
17 important issue, yes.

18 MR. WILLIAMS: As I understand it, in  
19 terms of boreal woodland caribou, you have  
20 developed -- you use it for a number of other  
21 effects as well -- a four tiered ranking system,  
22 ranking from very high to low, which you applied  
23 to the relevant alternative route segments?

24 MR. MCGARRY: That's correct.

25 MR. WILLIAMS: And if I reviewed

1 sections four, five and six, it would be accurate  
2 to say that there are segments within each of  
3 those three sections where the comparative ranking  
4 identifies, at least in some circumstances, very  
5 high ratings for caribou, correct?

6 MR. McGARRY: I'll just have a quick  
7 check, and I'll take your word for it while we're  
8 looking.

9 MR. WILLIAMS: I'm not sure  
10 Mr. Bedford would recommend that, but you could  
11 accept that subject to check if you wish?

12 MR. McGARRY: Yeah, woodland caribou  
13 did receive, for not all segments, for some  
14 segments very high in three of those sections.

15 MR. WILLIAMS: And those sections  
16 would be four, five and six, sir?

17 MR. McGARRY: That's correct.

18 MR. WILLIAMS: And I have to confess  
19 I'm not very familiar with the bog and Wabowden  
20 evaluation ranges. But are we agreed, sir, that  
21 it is the Bog and Wabowden evaluation ranges which  
22 are bisected by the final preferred route?

23 MR. McGARRY: Those ranges are  
24 intersected by section might imply something else.  
25 For instance, the Wabowden range of woodland

1 caribou, we do -- the final preferred route does  
2 traverse the northern portion of that particular  
3 range. For the Bog range of woodland caribou, the  
4 preferred route traverses a little bit on the  
5 eastern side of that range.

6 MR. WILLIAMS: And sir, I don't want  
7 to go into caribou except for as they may relate  
8 to your routing evaluation. So without going into  
9 matters better left for the chapter eight and nine  
10 effects assessment, can we agree that there was a  
11 supplemental caribou technical report filed in  
12 August?

13 MR. MCGARRY: That's correct.

14 MR. WILLIAMS: And again, without  
15 going into the caribou issue per se in any detail,  
16 can we agree that there were -- that the reported  
17 Lambda rates are consistently low among all  
18 evaluation ranges indicating possible short-term  
19 slight population decline?

20 MR. MCGARRY: Sorry, you'll have to  
21 repeat those references, I didn't quite catch  
22 them. As I understand it, Mr. Williams, you were  
23 asking about Lambda in terms of population,  
24 survivability and growth?

25 MR. WILLIAMS: Yes, that was what I

1 was asking, sir.

2 MR. MCGARRY: Yes, those were  
3 evaluated for each of those ranges. I believe  
4 that's in the caribou supplemental report.

5 MR. WILLIAMS: Now, subsequent to  
6 receiving the supplemental report, has Hydro gone  
7 back, armed with this new and improved analysis,  
8 and re-evaluated any of its routing selections in  
9 segments four, five and six, with a view to  
10 determining how, if at all, it might affect the  
11 final preferred route?

12 MR. MCGARRY: That information has  
13 been used to look at some of our routing, but  
14 there has been no further action on that. And the  
15 environmental assessment for that particular  
16 species is subject of chapter eight. And I would  
17 defer to our expert on woodland caribou to discuss  
18 the finer details of that.

19 MR. WILLIAMS: Okay. And I accept  
20 that, sir.

21 In terms of any of your recommended  
22 routes to date, that information as of now has not  
23 affected them; is that correct?

24 MR. MCGARRY: That's correct. We  
25 still have a final preferred route before us for

1 review and assessment.

2 MR. WILLIAMS: Just looking at that  
3 section four route selection matrix, which is  
4 still up there, sir, and I don't want to go over  
5 what's been said before, but essentially when we  
6 look at the numerous, well the 23 factors above  
7 here at the top of this matrix, the information  
8 for each route and section, essentially what Hydro  
9 did was for each particular segment assign a  
10 rating score, correct?

11 MR. MCGARRY: As I explained before,  
12 rankings, or pardon me, ratings for each criteria  
13 were done independently and scored. The  
14 weighting, as I explained before, was applied  
15 informally -- well, in a scoring sense, but not by  
16 using multipliers or coefficients, for six  
17 criteria in our matrix had the opportunity to  
18 score very high, or create a higher score than  
19 other criteria.

20 MR. WILLIAMS: And I have heard your  
21 discussion of this with Mr. Meronek, sir, but I do  
22 want to make sure I understand it. If we were to  
23 compare, for example, the preliminary preferred  
24 route flowing from this analysis, first of all  
25 let's agree that it was section, segments B9, BB2

1 and B10; is that right, sir?

2 MR. MCGARRY: That's correct.

3 MR. WILLIAMS: And you were comparing  
4 it to, I'll turn for one example, the A8, A9  
5 alternative, agreed, sir?

6 MR. MCGARRY: Were we comparing it to  
7 that? Was that the question?

8 MR. WILLIAMS: That was one of the  
9 alternatives you were comparing it to, sir?

10 MR. MCGARRY: That's correct.

11 MR. WILLIAMS: And I'm just trying to  
12 understand more fully how, if at all, the rating  
13 fit into this. So, sir, on the right-hand side  
14 for each of those segments, you have set out a  
15 rating, whether it's 32 for A9 or 16 for B9,  
16 agreed?

17 MR. MCGARRY: Agreed, yes.

18 MR. WILLIAMS: In evaluating the  
19 preferred route through any particular section,  
20 would you have compared the sum or the -- for  
21 example in this one, would you have compared the  
22 rating for B9, BB2, and B10G numerically as  
23 against the rating for A8 and A9?

24 MR. MCGARRY: No, we did not sum  
25 scores between individual segments. Each segment

1 with a label was evaluated by itself, and as part  
2 of the -- by design that the summation scores were  
3 trying to get through a section was not part of  
4 the plan. The way it was laid out allowed  
5 flexibility. As you see in the selection section  
6 four, one of alternatives became BB2, which is  
7 really a subsection for connectivity. So in  
8 having multiple segments along routes provided  
9 some flexibility in trying to address as many  
10 issues as possible in making that determination.

11 MR. WILLIAMS: Okay. That's helpful,  
12 sir, I thank you for that.

13 Just turning for a couple of moments  
14 to the issue of separation, and if you're looking  
15 for a reference, sir, it's from your direct  
16 evidence, page 340, lines 13 and 14 and 15. But  
17 if we built up some trust, maybe you'll accept  
18 that subject to check.

19 Your evidence on October 2nd was,  
20 paramount in all of this was separation from  
21 Bipoles I and II. Do you recall making a  
22 statement to that effect, sir?

23 MR. MCGARRY: Yes. It was certainly  
24 part of the criteria, separation was a  
25 consideration.

1 MR. WILLIAMS: And it was paramount?

2 MR. MCGARRY: That I don't recall if  
3 paramount. That particular criteria was one of  
4 the 23. Paramouncy may be a relative term, if I  
5 spoke that I meant it within the context of all  
6 the criteria considered. But from a design  
7 perspective, from an engineering perspective,  
8 reliability, it's a very important criteria.

9 MR. WILLIAMS: In terms of this very  
10 important criteria, sir, kind of the starting  
11 point of the objective of your evaluation was to  
12 select route segments that met the minimum  
13 required distance requirement of 40 kilometres  
14 from Bipoles I and II, agreed?

15 MR. MCGARRY: Agreed. But many  
16 criteria had objectives for avoidance, but as you  
17 can see by the evaluation, that's not always  
18 possible. Objectives were set. They can't always  
19 be met. Criteria separation couldn't always be  
20 met. Similarly, avoidance of all wildlife  
21 management areas was not possible either.

22 MR. WILLIAMS: Okay. Am I correct in  
23 suggesting to you that the preliminary preferred  
24 route of BP III as it passes through the Thompson  
25 Nickel Belt at times came within 26 kilometres of



1 BP I and II?

2 MR. MCGARRY: I believe that's  
3 correct. I can't remember, in the report I think  
4 it said less than 25 kilometres between the final  
5 preferred route and Bipoles I and II, at that  
6 point, just that one point.

7 MR. WILLIAMS: Okay. Just to make  
8 sure I heard you properly, sir, could you repeat  
9 that figure?

10 MR. MCGARRY: I think it was, as I  
11 said I would have to check, I think it was in the  
12 25 kilometre range in terms of the separation  
13 distance.

14 MR. WILLIAMS: And, sir, if it's  
15 different from 25, you'll let us know, otherwise  
16 that's fine from my perspective.

17 MR. MCGARRY: I'm sure it's in the  
18 record by numbers, I just don't recall exactly.

19 MR. WILLIAMS: In terms of Hydro's  
20 preferred route, am I correct in suggesting to  
21 you, based upon the response to CEC VII-408, that  
22 there are roughly 340 kilometre line sections  
23 which are within 50 kilometres of the separation  
24 distance with BP I and II?

25 MR. MCGARRY: Yeah, I believe that's

1 correct although I don't have that IR in front of  
2 me, but I can quickly confirm that.

3 MR. MAZUR: If I may?

4 MR. WILLIAMS: Mr. Mazur, you are more  
5 than welcome.

6 MR. MAZUR: Based on our calculation,  
7 there is approximately 340 kilometres of the final  
8 preferred route -- well, actually the preliminary  
9 preferred route within 50 kilometres. And this is  
10 based on the report that we filed called weather  
11 hazard and reliability assessment for the  
12 preliminary preferred route of the Bipole III DC  
13 line by Tessman (ph) Consultants dated  
14 January 2012.

15 MR. WILLIAMS: And I thank you for  
16 that, Mr. Mazur. Can we drill down one detail  
17 further. How many of that 340 would be less than  
18 the 40 kilometres, sir?

19 MR. MAZUR: I don't have a breakdown  
20 on the 40, but I would like to also add that 40 is  
21 a guideline, it is not our criteria. We had  
22 conducted over a period of 2001 to current date  
23 three studies looking at various weather-related  
24 risks. And the purpose of those studies was to  
25 try and establish an acceptable separation based

1 on the risks, the latest study was the 2012 study  
2 which I just referenced. So 40 has been  
3 traditionally a number established based on  
4 tornado, and Manitoba Hydro hasn't adopted a  
5 specific criteria, we're trying to define the  
6 relative risk of the various routes. And I can  
7 provide some further information. Based on the  
8 2012 study, for example, in the conclusions, you  
9 know, that come out of it are that the -- if we  
10 look at tornadoes, for example, you know,  
11 separation provides a benefit of over 200 times,  
12 for example, strengthening. And so separation is  
13 one of the fundamental arguments for the route.  
14 You gain more, for example, by separation in the  
15 first 50 kilometres than you do in the second 50  
16 kilometres. So relative risk, if we do nothing,  
17 or strengthen Bipole I and II has been suggested  
18 in many of the IRs, we reduce the risk by a factor  
19 of maybe up to five, if it's feasible to  
20 strengthen it by 40 percent, less than three times  
21 if we strengthen it by 30 percent. Whereas any  
22 separation gains us a reliability improvement of  
23 over 200 times. And I can go through some of the  
24 same arguments for ice and wind, which as we might  
25 know by this morning, is one of the risks that has

1 been described in Mr. Tymofichuk's presentation.

2 MR. WILLIAMS: Mr. Mazur, you know,  
3 and I don't want to interrupt you, I'm going to  
4 come right back to you, but really the issue here  
5 isn't about Bipoles I and II, I'm trying to  
6 understand the adherence or not to the constraint.  
7 So I'm going to come right back to you in one  
8 second. But, Mr. McGarry, for your purposes, the  
9 initial constraint for separation was 40  
10 kilometres, agreed? If I read chapter seven,  
11 there it is.

12 MR. MCGARRY: Yes, we used that, but  
13 as Mr. Mazur pointed out, there is bigger  
14 reliability risk assessments going on. The study  
15 team for environmental assessment used that  
16 figure.

17 MR. WILLIAMS: Okay. And Mr. Mazur,  
18 my simple question to you previously was whether,  
19 after agreeing that there is 340 kilometres of  
20 line within 50 kilometres, is whether you could  
21 indicate to me how many kilometres are within 40  
22 kilometres of Bipoles I and II? Are you able to  
23 do that, sir?

24 MR. MAZUR: I don't have an answer in  
25 front of me. I presume we can go back to the maps

1 and get that number.

2 MR. WILLIAMS: Would that be a  
3 difficult task, sir?

4 MR. MAZUR: I don't know how difficult  
5 it would be, but I assume it's available.

6 MR. WILLIAMS: So if you would just  
7 undertake to do that? Is to examine the number of  
8 kilometres of Bipole III that are less -- of the  
9 line that are less than 40 kilometres in terms of  
10 separation from Bipoles I and II. You will do  
11 that, sir?

12 MR. MAZUR: Yes, we'll do that.

13 MR. NEUFELD: I'd like to just add a  
14 comment to what Mr. Mazur described. And for  
15 those sections that are within 50 kilometre  
16 separation from Bipole I and II, just to expand on  
17 what Mr. Mazur was describing, and further to what  
18 Mr. Tymofichuk described in his presentation, the  
19 design parameter for Bipole III is a failure rate  
20 of one in 150 years. And so for those sections  
21 where the separation distance between Bipole III  
22 and the existing one and two corridors is less  
23 than 50 kilometres, the alternative is to provide  
24 a more rigorous design for the towers in those  
25 areas. And that's an offset to help mitigate the

1 negative consequences of being in closer proximity  
2 to each other.

3 MR. WILLIAMS: And I thank you for  
4 that, Mr. Neufeld, and that's very helpful. Would  
5 I be correct in suggesting to you that the, in  
6 terms of mitigating that reduced separation, the  
7 corporation has achieved that for a cost of  
8 roughly \$6 million?

9 MR. NEUFELD: That's correct.

10 MR. WILLIAMS: Ballpark, roughly  
11 \$17,000 a kilometre?

12 MR. NEUFELD: I haven't gone through  
13 the calculation. If it's 340 kilometres, that  
14 would be an approximately right number.

15 MR. WILLIAMS: I thank you for that,  
16 sir.

17 And, Mr. Chairman, it's been a  
18 difficult week for me with a variety of other  
19 commitments. I appreciate the consideration of  
20 the panel and also of Manitoba Hydro allowing me  
21 to re-order my week somewhat. Thank you very  
22 much.

23 THE CHAIRMAN: Thank you,  
24 Mr. Williams. The panel members do have some  
25 questions in this respect, in respect of the site

1 selection. I know that Mr. Gibbons has some  
2 specific concerns about a section in western  
3 Manitoba. A few of us are going to have some  
4 questions on the process, the environmental  
5 assessment process you engaged in, in the site  
6 selection.

7 I think I'll let Mr. Gibbons go first  
8 on his questions and then we'll turn to the  
9 process.

10 MR. GIBBONS: I do have a concern  
11 about one segment of the line but I will come to  
12 that as we move forward. I thought I would go  
13 through the document from beginning to end, the  
14 presentation document, and refer to the slides in  
15 rough order.

16 I guess the first question that I have  
17 in terms of gaining better clarity relates to what  
18 I would call slides seven and eight, which would  
19 put them I guess on page four. And here it may  
20 just be a disconnect between my listening to the  
21 presentation and my memory of the EIS and the tech  
22 documents, so it may be just a clarification and  
23 nothing more, I don't know. But on page 4, the  
24 top and bottom slides, there is reference to the  
25 constraints and the critical habitat, for example,

1 important bird habitat, species at risk, which is  
2 one of the second of those slides. In the case of  
3 the second of those I mentioned, the important  
4 bird habitat, in a parenthetical aside, Ducks  
5 Unlimited is referred to. And I guess the  
6 question that I have then about all three is, in  
7 the case of important bird habitat, does this  
8 suggest that Ducks Unlimited alone was the source  
9 of information, or you had other sources? And in  
10 the case of the other two, there is no such  
11 reference. Where did the assessment or definition  
12 of critical habitat and species at risk come from?  
13 And now again, as I say, my recollection is some  
14 of this may well be in the tech documents or the  
15 EIS, but I'm a little rusty at this point after  
16 absorbing all this information.

17 MR. MCGARRY: Good morning,  
18 Mr. Gibbons. For that point on important bird  
19 habitat and waterfowl hotspots and Ducks  
20 Unlimited, important bird habitat was data which  
21 I'll get my colleague to confirm where that came  
22 from. It's readily information and it's not  
23 related to Ducks Unlimited database, and we will  
24 come to this later. And its point, which is  
25 waterfowl hotspots, that was provided to us by



1 Ducks Unlimited for consideration mainly around  
2 major water bodies, marshes and wetlands that they  
3 had mapped over their many years of history in  
4 Manitoba, and shared with us areas they thought  
5 were important for waterfowl nesting and breeding.  
6 The important bird habitat later -- unless you  
7 have something?

8 MR. DYCK: There's various sources of  
9 information that were put together for important  
10 bird habitat, including migration corridors,  
11 staging areas for waterfowl in particular. There  
12 is a lot of information on nesting sites. Some of  
13 the information came from Manitoba Conservation in  
14 terms of colonial nesters on the lakes and lake  
15 shores, in particular Lake Winnipegosis and Lake  
16 Manitoba shorelines. And as Mr. McGarry already  
17 pointed out, Ducks Unlimited provided two  
18 different sets of information that they had  
19 collected. And there is also the more recent  
20 information that came available from the Bird  
21 Atlas of Canada, I believe it is.

22 MR. GIBBONS: Thank you. Second,  
23 again looking for clarification and perhaps a  
24 little bit of elaboration, on slide number nine  
25 which is the top of page 5, there is reference to

1 the number of heavy angled structures as a  
2 technical or engineering constraint. Could  
3 someone elaborate, either of you elaborate on that  
4 briefly as to, for example, what the cost of -- I  
5 guess what I'm thinking of here is there's a cost  
6 involved in changing direction that is borne  
7 essentially by the heavy angle structure, the  
8 angle towers. How much cost would that add in  
9 comparison to a regular tower? In other words,  
10 what's the price of changing direction? Is there  
11 a ballpark figure there?

12 MR. MCGARRY: I wouldn't have that  
13 number. We're looking around the table to see if  
14 somebody would have that. No volunteers  
15 apparently.

16 MR. PENNER: I could get it for you.  
17 If I took a stab in the dark, I could be wrong and  
18 I don't want to do that. It is significant  
19 though.

20 MR. GIBBONS: But we could get that  
21 information?

22 MR. PENNER: I can get that  
23 information for you shortly.

24 MR. MCGARRY: Okay. Just by way of  
25 comparison, in the project description chapter,

1 the tower footprint size and dimension is provided  
2 for a typical tangent tower and an angle tower.  
3 And you can see the structure there is  
4 significantly different, so there would be a  
5 premium certainly.

6 MR. GIBBONS: Slide 35, which would be  
7 the top one on page 18, there was a visual. I  
8 don't recall whether or not the area that we see  
9 running from, I guess you would say the northeast  
10 corner down towards the southwest, is that an  
11 existing cut? At the time I couldn't tell what  
12 that was in that area across that small lake?

13 MR. PENNER: That's an existing  
14 transmission line. You can see the tower, one of  
15 the towers up on the far side.

16 MR. GIBBONS: I can only make out the  
17 one on the one side, I couldn't make out the ones  
18 on the bottom, sorry.

19 MR. PENNER: It's not quite as clear  
20 on a screen like that, but right at the bottom of  
21 the photo in the lower left-hand corner, you can  
22 actually see the conductors very vaguely there.  
23 And that's a Bipole II conductor there.

24 MR. GIBBONS: So this is an example  
25 where you might fall --

1 MR. PENNER: Right there, you can see  
2 them very vaguely.

3 MR. GIBBONS: Okay. Thank you for  
4 that.

5 Slides 45 and 48, which puts us around  
6 I guess pages 23, 24, in the discussion that took  
7 place here, I was not fully clear on the route, on  
8 some of the routing decisions made through these  
9 areas. But I think I have come to learn since  
10 that in some cases there are significant wetlands  
11 that do not show up as lakes in some of these  
12 areas. In other words, the Bipole proposed line  
13 is the green line running from northeast to  
14 southwest?

15 MR. DYCK: That's correct.

16 MR. GIBBONS: Going this way as  
17 opposed to the other side of that lake in the  
18 middle is, I'm hearing from others, perhaps made  
19 difficult by wetlands. In other words, I wasn't  
20 quite sure why the line was going that way as  
21 opposed to some other direction. I wasn't clear  
22 on the routing philosophy in some of the  
23 selections in terms of those couple of slides.  
24 Are there wetlands there that are not evident as  
25 bodies of water, let's say?

1                   MR. DYCK: The light areas that you  
2 see overall in this area are, I guess you could  
3 term them as bogs. And so the water table is  
4 quite high, but they are vegetated over. You  
5 wouldn't see the water evidently. But the black  
6 areas that you see over here, those are all small  
7 lakes, or puddles you might call them. That's a  
8 little bit of high ground there. And then there  
9 is a couple of forested islands that are located  
10 in here. And those were purposely avoided to  
11 ensure that the habitat in those islands is not  
12 disturbed.

13                   MR. GIBBONS: I might have asked the  
14 question at the time, but I didn't want to  
15 interrupt the flow and so forth.

16                   MR. DYCK: That's fine.

17                   MR. GIBBONS: Slide 52, which would be  
18 page 26 -- sorry, I think I have jumped around  
19 here a little bit -- there was a reference to  
20 mitigating for a bald eagle nest, a grebe nest and  
21 a blue heron rookery, but I don't recall in the  
22 conversation at the time as to what might be  
23 examples of the mitigation that might be  
24 undertaken there. And perhaps a brief explanation  
25 as to why avoidance of those is not possible. It

1 indicates in a general sense that there's a  
2 limited opportunity to route through the area due  
3 to a wayside park. And I'm presuming that the TLE  
4 in that area is a major concern. Is it that those  
5 constraints are sufficient enough that you cannot  
6 avoid those nesting and rookery areas, and if so,  
7 what kind of mitigations are we talking about?  
8 Not necessarily in great detail, but just a sense  
9 of where you're going with that?

10 MR. DYCK: Right. I can give you a  
11 little bit of detail, and the bird biologist will  
12 be on later in October, and you can revisit the  
13 question again if you'd like.

14 You are correct in saying that there  
15 is TLE lands that extend from highway 10,  
16 immediately west all the way to Red Deer Lake. So  
17 the option of routing through there was not open  
18 to us. This is a housing or cottage division  
19 right here that has been there for a long time,  
20 and we had to create separation from that as well.  
21 Coming from the north, we had to avoid the TLE  
22 land on the Overflowing River that brought us down  
23 on this alignment to come through here. This is  
24 the existing 230 kV line. That's associated with  
25 highway 10 in that area. The highway itself winds

1 through this region extensively, so it's not  
2 possible to follow the highway immediately with a  
3 large development such as this. In addition to  
4 that, we would have to cross the Winnipegosis salt  
5 flats springs that feed into the ecological  
6 reserve if we were closer to the highway. So  
7 that's all been avoided by creating some  
8 separation here from the highway itself.

9 MR. GIBBONS: You have given us why  
10 number 10 was involved, but there's a 230 line  
11 here as well?

12 MR. DYCK: Yes.

13 MR. GIBBONS: Could that line not have  
14 been followed, the existing right-of-way?

15 MR. DYCK: Well, I should let the  
16 engineers speak to that maybe, but there is a huge  
17 difference between a 230 kV line in terms of size.  
18 And so the 230 kV line parallels highway 10 fairly  
19 closely and has numerous corners in it. And that  
20 would not be possible with this size of line.  
21 Like you'd have a lot of corners, plus it would  
22 put us over top of the springs, the salt springs.

23 MR. GIBBONS: Okay, thank you.

24 MR. DYCK: In terms of nesting, you  
25 had some questions about the nesting?

1 MR. GIBBONS: Yes.

2 MR. DYCK: There was a bald eagle nest  
3 located south of Red Deer River, from the  
4 information that I got from the bird biologist,  
5 Mr. Berger. It is 225 metres approximately  
6 separated from the current alignment. So that  
7 buffer should be adequate according to the  
8 guidelines for separation. There are also timing  
9 windows associated with construction during the  
10 active nesting periods for birds, including bald  
11 eagle. And that would be respected by Manitoba  
12 Hydro, that's within the environmental protection  
13 plan. The waterfowl nests that were identified  
14 are on the shorelines, or were on the shoreline,  
15 that was the Western Grebe of Dawson Bay, so they  
16 would not be affected. But it's doubtful those  
17 nests are there currently because of the  
18 fluctuations in water levels over the last couple  
19 of years.

20 MR. GIBBONS: I should point out in my  
21 reading of the EPP, there were often references to  
22 mitigation but there wasn't always an indication  
23 what the mitigation was, just that it would be  
24 mitigated. So that's why I was asking the  
25 question.



1                   MR. MCGARRY:  If I could just add a  
2    little bit to that.  You mentioned the  
3    environmental protection plan.  There are  
4    separation criteria for various bird species.  So  
5    if we're constructing, which we're not planning  
6    to, it's mostly winter construction, but if we  
7    were operating or planning to construct in any  
8    area during a bird breeding season, then the  
9    mitigation is we're following separation  
10   guidelines as provided in the environmental  
11   protection plan.

12                  MR. GIBBONS:  So generally it's a  
13   separation issue?

14                  MR. MCGARRY:  Correct, yes.

15                  MR. DYCK:  One more point here is that  
16   there is a provincial park located right  
17   immediately to the road and adjacent to the river  
18   that we wanted to have had separation from as  
19   well.

20                  MR. GIBBONS:  Thank you.  
21   Interestingly enough, that ties to the next  
22   question, which is in regards to slide number 54,  
23   which is the next page, 27, bottom of page 27, and  
24   I don't recall whether this was mentioned at the  
25   time, and if it was, I apologize, but if I could

1 get again a brief explanation as to the following  
2 comment:

3 "Alternative routing options may  
4 include routing through a provincial  
5 forest previously avoided."

6 Can we get a little bit more on that?

7 MR. DYCK: Yes, the Porcupine  
8 Provincial Forest comes to the abandoned railway  
9 line, you can just see it very faintly here. So  
10 it extends a little bit east of highway 10. And  
11 if we are looking at alternative routing to come  
12 close to the highway and the existing transmission  
13 line here, we would be entering, potentially  
14 entering the provincial forest.

15 MR. GIBBONS: So in terms of -- how  
16 shall I put this -- if we look at the line now,  
17 that is circumventing the forest then, the line as  
18 indicated on this?

19 MR. DYCK: That's correct.

20 MR. GIBBONS: So the intent is to  
21 avoid it, if possible, but there may be  
22 circumstances where it might need to go the other  
23 way. Any quick example of what might cause you to  
24 move it through the forest?

25 MR. DYCK: Well, that's the question,

1 I guess the issue that has been raised by Manitoba  
2 Conservation and Water Stewardship of routing  
3 through this area, that there's a concern there.  
4 So in changing the alignment, and that was one of  
5 the considerations early on in the routing process  
6 through this area, that one of the options was to  
7 be closer to the highway. And that alignment then  
8 also took us through a lot more agricultural land  
9 further south. So there are pros and cons to  
10 realigning the route through here.

11 MR. GIBBONS: Okay. Slide 67, I think  
12 the answer to this will be similar to the one we  
13 just had. That would be top of page 34 I guess it  
14 is. It starts with the narrative one, the slide  
15 that's at the bottom of slide 33, but I think the  
16 comment was made in regard to the photo that  
17 follows this. And I recall in that narrative that  
18 there were mitigation measures being considered,  
19 and it was mentioned, for example, skinks and so  
20 on. And again, are these mitigation measures  
21 attempts to avoid the areas, create sufficient  
22 separation and so forth, or are there other  
23 mitigation measures being planned? I don't know  
24 why skinks, by the way, stick in my mind. There  
25 were a couple of examples and I was writing as

1 fast as I could, but that's the one that made it  
2 onto my piece of paper.

3 MR. DYCK: The complex that you see in  
4 this photo here, and this is just a larger scale  
5 of the image of the same thing, this is an  
6 expanded zoomed in view. So you can see the sand  
7 dune complex that runs north/south in that area  
8 there. That would be the area of concern under  
9 that particular habitat type that's been  
10 identified by our specialists, both by the  
11 amphibian and reptile specialist as well as the  
12 vegetation specialist. So there's species of  
13 concern within these ecotypes, even though they  
14 are not a pristine environment, these are pastured  
15 areas, so they are disturbed by agricultural  
16 practices. The mitigation measures that Manitoba  
17 Hydro has proposed is to minimize the disturbance  
18 in the area, to conduct a clearing in the winter  
19 months, and to minimize crossing it from an access  
20 perspective where possible, and by siting the  
21 transmission towers away from the site. The  
22 measurement across these areas is less than an  
23 average span between two towers and, therefore,  
24 there is a good, you know, a high potential that  
25 we can avoid those areas.

1 MR. GIBBONS: Okay. Thank you for  
2 that.

3 The Chairman mentioned that I had a  
4 concern about a routing issue west of Swan Lake.  
5 I'm trying to connect it to a particular slide.  
6 In fact, I think it relates to slide 56. So I am  
7 backtracking a bit here, so I do apologize for  
8 that.

9 MR. DYCK: Is that the blueberry area?

10 MR. GIBBONS: I imagine it might be.

11 I refer to these as the bird maps.  
12 They have a formal name, I'm sure, but all that I  
13 can think of is they are mostly about birds.

14 In this particular case, this is at a  
15 point where the Bipole line would cross from, I  
16 guess it's the Rural Municipality of Mountain  
17 north down into Minitonas, so just west and  
18 southwest of Swan Lake. In what I would call the  
19 bird map, there is in the coding scheme, or the  
20 key scheme used in the mapping, a very significant  
21 large and contiguous area defined as areas of  
22 waterfowl concentration, and along the line in the  
23 map that was provided, a number of either rookery  
24 sites or sensitive bird sites for birds, right  
25 along the line here. So apparently a lot has been

1 discovered in that region.

2 I guess the question for me is, given  
3 concerns about waterfowl and so forth, would it  
4 not be possible in this context at least, in this  
5 area, this segment of the line, to move the  
6 line -- let me rephrase it. What are the  
7 arguments against moving that line so that it  
8 would conform, I guess, and follow route 10, or  
9 some other route? But route 10, for example, is  
10 to the west of that region, does not cross over  
11 that region at all. So I guess the question is,  
12 presumably it's going this way for a reason.  
13 Could you elaborate briefly for us why the line  
14 had to go through that section as opposed to  
15 following 10, given the concentration of waterfowl  
16 in that area? I'm just looking for a  
17 clarification of the rationale, I guess.

18 MR. MCGARRY: The routing, of course,  
19 went -- we're trying to find out what section this  
20 was, but the routing as you know considered  
21 multiple criteria. And the bird information in  
22 terms of its detail, we defer to our bird  
23 specialist on potential effects in mitigation.  
24 But overall decisions on routing are complex and  
25 multi stakeholder. So for instance, moving closer

1 to highway 10 or along highway 10 presents some  
2 issues related to highway 10 not being  
3 particularly straight in the first place and how  
4 we would route. There is other landowner  
5 considerations the closer we get to highway 20,  
6 and to highway 10 for agriculture. Not to say any  
7 one criteria necessarily outweighs the other.  
8 Although to be clear, of course, there were six  
9 criteria that could. It was out of that  
10 decision-making framework, trying to balance all  
11 those interests of multi stakeholders, birds being  
12 one of them, yes.

13 MR. DYCK: The evaluation in the  
14 initial alternative routes were identified for the  
15 area. The concern over birds did not score very  
16 high. You could further question the bird  
17 biologist again when he's here presenting and when  
18 he's open for questioning on further details for  
19 the area.

20 I think what you're looking at for the  
21 most part is a staging area. There's waterfowl  
22 staging area associated with Swan Lake for  
23 waterfowl in the fall, in particular. And I know  
24 that country myself, and I know that the ducks and  
25 geese do congregate in the area, so there would be

1 some concern with bird strikes on wires. I am not  
2 100 percent certain, but I think the biologist has  
3 prescribed mitigation measures which include the  
4 bird diverters on the lines in very specific areas  
5 there in that region. The line does follow open  
6 farmland for the most part, pretty much on the  
7 eastern fringe of the farmland area. It is  
8 several miles removed from Swan Lake itself.

9 MR. GIBBONS: Thank you. I think I  
10 know the answer to this question, but you're  
11 right, I am not sure I am asking -- could you  
12 describe bird diverters for us, please? What are  
13 they, how do they work?

14 MR. DYCK: Sorry?

15 MR. GIBBONS: When you mentioned bird  
16 diverters on the wires, could you briefly, not in  
17 great detail, but just a vague idea of how these  
18 things, what they are and how they might work?

19 MR. DYCK: Yes. I don't know that we  
20 have a picture of them, they come in various  
21 formats, various configurations, but they are  
22 spirals for the most part that I have seen, that  
23 are placed on the conductor, the top conductor.  
24 Actually, it is not a conductor, it's what they  
25 call a sky wire. I'll have an engineer correct me



1 here, but it's the top wire which is thinner than  
2 the conductors themselves, so less visible. And  
3 these spirals are placed on the wire to make it  
4 more visible to the birds. The research seems to  
5 indicate that it's effective and reduces bird wire  
6 strikes.

7 MR. GIBBONS: Thank you.

8 MR. MCGARRY: Sorry, just one other  
9 point in that. Where our bird biologist thought  
10 it was important to place bird diverters or other  
11 mitigation have been identified as environmentally  
12 sensitive sites. And I can't tell you  
13 specifically for this area, but there is an  
14 inventory where our bird biologist thought it was  
15 important to identify sites for additional  
16 mitigation, including the use of bird diverters.

17 MR. DYCK: That particular area would  
18 cross the Swan River, the Roaring River and the  
19 Whiting River, those would be fly ways and those  
20 would be candidates certainly for placing those  
21 diverters on those over those rivers.

22 MR. PENNER: Mr. Gibbons.

23 THE CHAIRMAN: These spiral diverters  
24 would work better than the plastic owls we see  
25 sitting around homes in parts of Winnipeg, usually

1 with the birds sitting right beside them.

2 MR. DYCK: The owl is usually  
3 targeting the pigeons.

4 THE CHAIRMAN: And you usually see the  
5 owls and the pigeons sitting side by side on  
6 peoples' roof lines.

7 MR. PENNER: Mr. Gibbons, would you  
8 like the answer on the cost of the corner?

9 MR. GIBBONS: Do you have it now?  
10 Sure.

11 MR. PENNER: Yes. Okay. My initial  
12 guess would have been about four times, and that  
13 seems to be fairly accurate in terms of some of  
14 the numbers that we're carrying for our  
15 construction estimates. For a self-supporting  
16 structure in Southern Manitoba, a corner structure  
17 is going to cost in the order of \$200,000 to  
18 install. That's not including the material costs  
19 for the structure, and I would expect those costs  
20 to be close to 100,000. So \$300,000 would be a  
21 reasonable number to talk about a corner  
22 structure. And for the construction component for  
23 a self-supporting suspension structure with an  
24 inline tangent structure is closer to \$40,000. So  
25 it's actually probably closer to five times the

1 value. And if you're talking about a jog, you  
2 have to multiply that by two because if you are  
3 travelling west and you need to make a jog north  
4 or south, you have to have two corner structures  
5 to go west again. So it's in the order of five  
6 times of that of a suspension structure. And that  
7 doesn't take into account less optimization. You  
8 may have shorter spans in those distances because  
9 you need to make that corner before you can  
10 optimize a span length. Is that helpful?

11 MR. GIBBONS: It is. That you.

12 THE CHAIRMAN: Thank you. Ms. MacKay?

13 MS. MacKAY: I'd like to ask a couple  
14 of questions I think about the route selection  
15 matrix and how it was put together in a general  
16 way. The route selection matrix takes qualitative  
17 data and converts it into quantitative data so  
18 that you can make a judgment about that. And you  
19 have to be very careful in making that conversion  
20 that you don't introduce biases, either  
21 consciously or unconsciously. So I am just  
22 wondering what the mechanisms were by which you  
23 got the ratings that go into the first 23 rows, or  
24 columns rather of the matrix, and what precautions  
25 you took to ensure that there was no bias going in

1 there so that you ended up coming out with the  
2 segments that you, for other reasons, might want.  
3 I'll let you answer that.

4 MR. MCGARRY: Yes. Each of the  
5 specialists that provided ratings to the matrix  
6 developed their own system of rating based on  
7 their specialty and knowledge. So the  
8 methodologies they used they recorded in their  
9 technical reports as to how they came up with a  
10 rating. And it wasn't prescribed. Each expert  
11 had his latitude to determine how he could  
12 evaluate that segment based on his knowledge of  
13 his or her specialty. And I think in that way,  
14 because there is no prescription for how you rate  
15 it, we left it to the experts and their  
16 opinions -- not their opinions, but their data and  
17 analyses to determine what that rating was going  
18 to be, low, medium, high, or very high. And they  
19 weren't looking at others to see what they were  
20 doing, until we got around the table and all that  
21 information was brought together into the matrix  
22 at approximately the same time. So I think we did  
23 what we could to remove the bias in the system and  
24 also to -- and we don't really consider there is  
25 bias in that sense. But also in using that

1 evaluation system, we came up with that numeric  
2 scoring that you saw, and the team also felt that  
3 that was not the sole basis for decision-making,  
4 and there is two other components before we got to  
5 a final decision. So we think the system was  
6 fairly unbiased and robust in that sense, that the  
7 discipline experts had the opportunity to look at  
8 each section strictly by their own discipline.

9 MS. MacKAY: So when you came to sit  
10 around the table, as you have suggested, there  
11 were no changes ever made to any of these ratings?

12 MR. McGARRY: Certainly not by  
13 direction. I believe once it was incorporated  
14 that -- or once the disciplined specialist was  
15 confident in what they had done, then that was  
16 entered into the matrix, and it wasn't separately  
17 reviewed by Ag or anybody else. The scoring they  
18 provided went straight into the matrix and then  
19 the whole thing was evaluated as a team.

20 MS. MacKAY: Thank you.

21 THE CHAIRMAN: We're going to have a  
22 few more questions in respect of this process, but  
23 I want to take a break in a moment or two. But  
24 before we do, I'd just like to ask, and I think  
25 Mr. Williams referred to the four segments of the

1 line that the Environmental Approvals Branch has  
2 requested you to address. When will we get that  
3 information and when will we have an opportunity  
4 to examine that information?

5 MR. MCGARRY: Mr. Chairman, as our  
6 response to Manitoba Conservation on those four  
7 segments indicated is that we would continue  
8 discussion with them, but we would not be in a  
9 position to provide new alternatives. If that is  
10 the course that Conservation decides on, we said  
11 we would review. And if the process leads us to  
12 need to develop and present new preferred  
13 alternatives, then we would also go through a  
14 stakeholder consultation process before we would  
15 consider them as preferred. As such, we informed  
16 Manitoba Conservation that we wouldn't have the  
17 time and the process to do that. It takes three  
18 to four months, and it would be early 2013 before  
19 Hydro would be confident in putting forward a new  
20 preferred alternative, if that's the determination  
21 of the licensing branch.

22 THE CHAIRMAN: So that could mean that  
23 our recommendations to the Minister are all sort  
24 of contingent upon a successful conclusion of that  
25 discussion and consideration, those

1 considerations, if we don't have an opportunity to  
2 examine that before this panel?

3 MR. MCGARRY: No. What we have  
4 suggested to Manitoba Conservation, because the  
5 areas in question are relatively small compared to  
6 the 1,384 kilometre length, the overall process  
7 and route selection analyses and consultation we  
8 have gone through to support the approach and the  
9 segment choices where we've been I think are  
10 sound, and we're proposing as the final proposed  
11 route. Where those sections are being questioned,  
12 we're trying to deal with the process. And  
13 obviously we are alert to the fact that it's the  
14 licensing branch asking for this and we will have  
15 to take it very seriously in trying to  
16 accommodate.

17 The licensing branch will have to,  
18 first of all, establish that it is an absolute  
19 that we will have to move the route. At this  
20 point in time, we're looking at it as a review and  
21 potentially developing new alternatives to meet  
22 their requirements. But it represents, as I said,  
23 a fairly small area. If they want to deal with it  
24 as a licence condition, that there's subsequent  
25 approval once we present preferred alternatives in

1 that area, then that would be the way to handle  
2 it.

3 THE CHAIRMAN: I'm just trying to  
4 determine how we the panel might consider this and  
5 develop some recommendations to the Minister.  
6 Could we have the issues presented to us with some  
7 consideration around it, or would you just rather  
8 that we, if we decide to licence, or to recommend  
9 to the Minister that he issue a licence, we say  
10 except for these four areas?

11 MR. MCGARRY: Mr. Chairman, it would  
12 of course be up to the commission. I don't  
13 pretend I have the best advice. In this case, it  
14 is somewhat unusual for us to deal with a route  
15 request from a regulatory body at this point and  
16 does present some challenge for recommendation.  
17 But at the end of the day, I think if the  
18 Commission is reasonably confident in what we have  
19 done, it would be able to put forward  
20 recommendations, and perhaps address those areas  
21 as also expressing confidence that the right  
22 decisions will be made.

23 THE CHAIRMAN: Okay. I think where  
24 I'm going to leave it then for now, we're  
25 certainly not going to close this off, but when we



1 come back in late October and when we get into the  
2 environmental assessment picture as a whole, we  
3 may want to have some discussion around these four  
4 points so that, you know, we have input from our  
5 participants and others in respect of those four  
6 areas. So we'll leave that there for now, but it  
7 will be open.

8 We're going to take a break. When we  
9 come back, the panel has a few more questions on  
10 site selection, and then I think we'll be finished  
11 with site selection for now. Come back at 10 to,  
12 please.

13 MS. JOHNSON: Mr. Chairman, I'd just  
14 like to enter Mr. Williams' handout as CAC number  
15 3.

16 (EXHIBIT CAC 3: Handout of Mr.  
17 Williams for Consumers Association)

18 THE CHAIRMAN: Thank you.

19 (Proceedings recessed at 10:30 a.m.)

20 (Proceedings reconvened at 10:50 a.m.)

21 THE CHAIRMAN: Welcome back. I should  
22 just first start off by saying to Mr. McGarry,  
23 that we're not entirely satisfied, in fact,  
24 probably far from entirely satisfied with the  
25 response you gave us in respect to those four

1 particular areas. You did mention something about  
2 needing about four months to address it. I would  
3 note that this was first brought to Hydro's  
4 attention and our attention in the spring when the  
5 TAC reported, and that's now over four months ago.  
6 Before we conclude these hearings in late  
7 November, we're going to need to address these in  
8 some way or other that gives us a basis to make a  
9 recommendation to the Minister.

10 MR. MCGARRY: Thank you, Mr. Chairman.  
11 We will caucus on that and try and determine a  
12 process that will be satisfactory to the  
13 commission and Manitoba Conservation.

14 THE CHAIRMAN: Thank you. Mr. Gibbons  
15 has I think a very brief follow-up on his  
16 questions about bird habitat.

17 MR. GIBBONS: Yes, the question was  
18 raised during the coffee break as to what map I  
19 was referring to. And one of the reasons why I  
20 didn't have more specific information at the time  
21 is because some of that information was contained  
22 in the margins which were cut off from the copy  
23 that I actually received, but I have now  
24 discovered that it is the part of the additional  
25 information from Hydro that was submitted on

1 September 17th. And in this particular case, the  
2 section of the map that I was referring to, there  
3 is the larger map, of course, which is the index  
4 to the individual sections and the section in  
5 question was section 11. Again, it's the area due  
6 west of Swan Lake. That is not the town but the  
7 lake itself.

8 THE CHAIRMAN: Moving on, I noted  
9 before the break that the commission was going to  
10 have some more questions in respect of the process  
11 that was undertaken by Hydro in this site  
12 selection environmental assessment. I think  
13 Mr. Kaplan is going to lead us off in that  
14 direction.

15 MR. KAPLAN: For the benefit of the  
16 court reporter, my questions will be very short.  
17 For the benefit of the Hydro panel, my questions  
18 are quite easy, that is the questions.

19 Firstly, I think you all recall the  
20 constraint mapping that was presented. My  
21 question to you on behalf, I think of myself and  
22 the panel, why was the constraint mapping  
23 presented at the hearing not included in the EIS?  
24 Whoever wants to jump on that, that's fine.

25 MR. DYCK: The constraints are

1 actually presented in the land use technical  
2 report, the maps associated with that report.  
3 That would contain the most comprehensive set of  
4 constraints that are associated with the project  
5 study area. Various other constraints will be  
6 discipline specific that are included in other  
7 reports, technical reports and so on.

8 MR. KAPLAN: The leads into my second  
9 question, and I'll just quote you one line.

10 "Technical reports have been prepared  
11 for the various biophysical,  
12 socioeconomic consultation and  
13 technical project components."

14 That leads to the question, and I ask it of any  
15 one of you, why was the technical report on route  
16 and site selection not prepared that would include  
17 the constraint mapping presented at the hearing,  
18 as well as a detailed description of the rationale  
19 for the identification and delineation of  
20 alternative route A, alternative route B and  
21 alternative route C?

22 MR. MCGARRY: Mr. Kaplan, the  
23 presentation for route selection was contained in  
24 chapter seven. There was a lot of information in  
25 there. There was a lot of mapping. All the

1 segments are provided. The matrix is there.  
2 Rationale for criteria was provided. It was felt  
3 by the study team that the presentation of the  
4 information was complete, in our minds, in terms  
5 of chapter seven.

6 THE CHAIRMAN: I am going to follow up  
7 with a number of questions that may not exactly  
8 flow one from the other, but they are all related  
9 to the same thing. In some ways, I recognize that  
10 this is an after-the-fact question and that what's  
11 done is done. But I'm just finding, and have been  
12 for some time finding this process of route  
13 selection and the way you went through it to be  
14 extremely confusing. It's very complicated. It  
15 appears to have been a very lengthy process, as  
16 was suggested earlier. There are subjective  
17 elements or there may be subjective elements in  
18 how you went through it. I'm talking about this  
19 whole matrix scheme. And also it relates to the  
20 constraints presentations that you made to us.

21 On pages four and five of the  
22 presentation, you have what I might call a subset  
23 of the constraints, you have the biophysical and  
24 socioeconomic constraints and then technical  
25 engineering constraints, as well as a brief slide

1 on potential routing opportunities.

2                   And then if you move over to page 10,  
3 you have an alternative route comparison and you  
4 used an even further subset of the constraints. I  
5 think there are eight listed there. It's not the  
6 full 23 that you have in the matrix.

7                   When you compare, when you look at the  
8 slide at the bottom of page 10 and you compare  
9 routes A, B and C with these eight different  
10 comparators, it's quite clear that route B was the  
11 preferred route and the best route. They come out  
12 ahead on just about all of the criteria, or they  
13 are very close, such as the forested land cover  
14 section which is within a couple of kilometres.

15                   Why didn't you just stop there, choose  
16 route B, and then go into a full detailed  
17 environmental assessment of that route, rather  
18 than going to this lengthy process of doing almost  
19 a full environmental evaluation on every different  
20 segment of the three alternatives that you  
21 presented? Wouldn't that have been much simpler,  
22 and really achieve the same thing in the end, and  
23 perhaps even allowed you time and effort to do a  
24 better environmental assessment along the  
25 preferred route?

1                   MR. MCGARRY: Thank you, Mr. Chairman.  
2    I think what you described, yes, would have been a  
3    simpler process. But due to the size of the  
4    project study area, the fact we cross five  
5    eco-zones, seven eco-regions, the depth and  
6    diversity socially, biophysically north to south  
7    is tremendous, terrain, wildlife, people. And to  
8    do a generalized route selection of the nature you  
9    described, we didn't think was sufficient. The  
10   detail involved and the complication, yes, clearly  
11   I agree with you, trying to review that number of  
12   segments is not an easy task, it's not easy to  
13   communicate. But what we intended through this  
14   assessment was to demonstrate that we were in fact  
15   considering geographic and social differences,  
16   north to south, that lead us to better route  
17   selection in such a huge project study area.

18                  THE CHAIRMAN: I don't think, even if  
19    you look at the analysis on page 10 which covers  
20    some significant elements, I don't think I'd call  
21    it a generalized route selection. I think that  
22    that would provide you with a fairly good basis  
23    for choosing that route. I mean, it just seems so  
24    overly complicated.

25                  MR. MCGARRY: It is complicated,

1 again, I'll agree. The information you see on the  
2 bottom of page 10 are just metrics placed there to  
3 show some basic differences between the route. It  
4 really is summary information. And that  
5 information is using length in each case, whereas  
6 the matrix was less concerned with length than  
7 choosing a segment by each section.

8 THE CHAIRMAN: Then how did you, sort  
9 of within this process, how did you determine how  
10 you would go around or go through the various  
11 constraints in delineating the three alternative  
12 routes?

13 MR. MCGARRY: The initial selection of  
14 alternatives actually started -- well, there is  
15 two components, north and south. In the north, we  
16 started with terrain analysis to outline some  
17 potential ways to accomplish our objective of  
18 routing the line. In the south, we started with  
19 Mr. Nielsen's appraisal of traversing farmland  
20 from The Pas to Riel. From there, the team worked  
21 to boil down what was a multiplicity of  
22 alternative routes down to an A, B, C framework,  
23 primarily to facilitate consultation. Trying to  
24 help people comment on A, B, C, D and E, five  
25 potential routes, increases the complexity and



1 choices in trying to evaluate that input. We felt  
2 that three options in most areas, sometimes there  
3 was four, that presented an opportunity for a  
4 stakeholder and multi-party input based on  
5 segments or sections that represented different  
6 interest in values. And by having it primarily on  
7 three routes with some sub connecting routes, I  
8 think we accomplished that integration of route  
9 selection and public consultation, and together  
10 those elements were processed for route selection.

11 MR. DYCK: If I can just add to that  
12 too, that the site selection and environmental  
13 assessment process starts off at a high level with  
14 a broad study area, as you see. And it's  
15 basically, or it can be viewed as a course  
16 filtered type of approach at the start of the  
17 process. And then as you get more and more, or  
18 closer and closer to a final route, it becomes  
19 very, very detailed and very site specific as the  
20 constraints become site specific, such as a house  
21 or as a very small ecotype. Those all have to be  
22 identified. As we have seen throughout the  
23 processes, we are still being criticized for not  
24 having done enough in many areas. So the amount  
25 of work that you can put into something like this

1 doesn't seem to cease.

2 THE CHAIRMAN: No, but if you'd just  
3 selected a preferred route first and then done an  
4 analysis and environmental, a full-detailed  
5 environmental analysis or assessment on that route  
6 rather than, you know, three or four or five  
7 different options in each section, you might have  
8 been able to do a more complete job on the one  
9 route. But that's, you know, what's been done in  
10 the past, or it's in the past, as I noted at the  
11 outset. My own opinion is it's not an entirely  
12 satisfactory way of doing it, but that's what  
13 you've done. So I just wanted to get some  
14 understanding of why you went that route.

15 But I note that even within this  
16 process, you know, there's a number of  
17 inconsistencies, and some of them are fairly  
18 obvious. I think one or more of my colleagues  
19 will address some other more specific ones, or  
20 other specific ones later. But I just note that  
21 the core communities, let me just start off, what  
22 are core communities? What do you define as core  
23 communities?

24 MR. DYCK: The core communities was a  
25 metric used by the biologists to assess habitat,

1 and it's based on patch size metrics, so  
2 contiguous patches of habitat for certain species.  
3 So basically you're looking at the quality of the  
4 habitat in terms of contiguous forest patches  
5 within a route corridor, and then compare the  
6 route corridors one to each other, which is the  
7 preferential one from that perspective.

8 THE CHAIRMAN: I was just going to  
9 note an inconsistency that the core community's  
10 criterion for segment B10G in section four was  
11 rated very high with comment, important caribou  
12 and another VEC habitat. However, the caribou  
13 criterion was rated as medium, as were the  
14 criteria for birds and mammals. The vegetation  
15 criterion was rated as low for the same section  
16 four. Four segments have very high ratings for  
17 caribou criterion, whereas the core communities  
18 criterion are rated as low to medium. It just  
19 seems inconsistent. You don't need to address  
20 that specific issue, but just example of  
21 inconsistencies from one section to another.

22 MR. MCGARRY: Yes, Mr. Chairman, we  
23 have to examine that in more detail for a complete  
24 explanation of the ratings. But again going back  
25 to the selection of criteria and how they are

1 described in appendix 7A(1), these were  
2 independent in terms of their evaluation. There  
3 is some relationship, I suppose, between  
4 fragmentation and core communities, but they are  
5 different metrics and don't always align, as they  
6 don't in section four on section 88. But the  
7 study team felt that besides identifying simply  
8 birds, mammals and other -- caribou and other  
9 biophysical indicators, that there were habitat  
10 and core community concerns that needed to be  
11 added in addition to simply evaluating birds,  
12 mammals or caribou.

13 MR. DYCK: If I can add to that too.  
14 In the final consensus and discussion in the  
15 committee at the committee stage on that  
16 particular section, it has to be taken in context  
17 with where that location is and the continuity as  
18 well as the segment itself. That segment in  
19 particular is a very short segment. The other  
20 aspect of that is that it's at the southern  
21 extremity of the Reid Lake caribou herd. So as  
22 much as that caribou evaluation range could be  
23 avoided, it was avoided. So that was already  
24 taken into account as well in that consideration.

25 THE CHAIRMAN: Thank you. I think my

1 colleague, Mr. Gibbons, has some other questions  
2 about other inconsistencies in this process.

3 MR. GIBBONS: It's actually one  
4 question, but it applies to three different  
5 elements of the project, and I'll provide just a  
6 bit of context if I can. The site selection  
7 process for the northern ground electrode site,  
8 from what we can glean from the material in front  
9 of us, did not include soils and terrain,  
10 forestry, terrestrial invertebrates and PAI lands,  
11 to which I would also add ASIs, reserve lands, and  
12 TLE land sections that were -- sorry, the reserve  
13 lands and TLE sections that were used in  
14 Keewatinoow's converter site selection process,  
15 and/or the assessment of the AC collector and  
16 construction power line corridor. In other words,  
17 some were used in some cases and not in others.  
18 And it seems that if we take that as a group, the  
19 northern part as a group, the Keewatinoow  
20 converter station, the northern electrode site and  
21 the northern electrode line did not seem to be  
22 subjected to the same criteria as other parts of  
23 the EIS, relating most obviously to the line  
24 itself, the Bipole line itself. Can you speak to  
25 why it seems, and I'm not sure if it did or did

1 not happen, or if it's simply that the written  
2 material does not reflect it, but there seems in  
3 the written material at least to be an  
4 inconsistent use of those features and constraints  
5 that were used for the line in the converter  
6 station case, the northern one, the Keewatinoow  
7 one, the northern electrode site and the electrode  
8 line, and the northern electrode line. Was it  
9 simply left out of the document? Were different  
10 criteria used, et cetera? That's where I'm going  
11 with that question.

12 MR. MCGARRY: Thank you, Mr. Gibbons.  
13 The components that you speak of, many of them  
14 were principally technically driven in the  
15 beginning, and the environmental assessment team  
16 accepted that ground electrode has certain  
17 criteria, so does converter station site in its  
18 proximity. These were technically driven site  
19 selections that were, as Mr. Chairman pointed out,  
20 this actually would get closer to the approach he  
21 was speaking of, that sites were somewhat selected  
22 based on their technical criteria, then the sites  
23 were assessed. But a number of sites were  
24 assessed in each case. I believe for converter  
25 station sites there was, in the north there was

1 five. So the project study team did assess these  
2 sites, but with technical criteria generally  
3 overriding we were looking for essentially, to put  
4 it in simple language, show stoppers. Were there  
5 things here that we were, as an environmental  
6 assessment group, including socioeconomic, would  
7 feel would be a major restriction to siting here?  
8 So in collaboration with the technical team, we  
9 came to a decision on that and conducted our  
10 assessment accordingly. So it didn't receive the  
11 same matrix detail as the HVDC line.

12 MR. GIBBONS: And so by extension, the  
13 DC line itself is not, at least compared to these  
14 components, is not technically driven in the same  
15 way that these are?

16 MR. MCGARRY: I would agree with that.  
17 The environmental team had quite a bit of  
18 flexibility in determining route.

19 MR. NEUFELD: Mr. Gibbons, perhaps I  
20 can explain a few more details as they relate to  
21 the technical constraints, and this speaks to the  
22 difficulty the Chairman spoke of earlier in our  
23 sessions regarding how do those electrons get into  
24 the earth?

25 And so the constraint is that of

1 needing to find an area where there's good soil  
2 conductivity, in other words, there is a place  
3 where you can complete a circuit. So for example,  
4 if it's in a rock outcropping area, that's  
5 probably not a good area. But if there's an area  
6 where there's fairly good wetlands and the type of  
7 soil is conducive to providing good conductivity,  
8 those are the choices one has, and that's it, and  
9 there aren't that many.

10 So exploratory drilling was done in a  
11 number of areas and the most -- so that left a  
12 certain constraint in terms of locations where  
13 ground electrode could be located.

14 And the second criteria was that it  
15 should be in an area that is as close as possible  
16 to the converter station as well.

17 MR. GIBBONS: Thank you.

18 MR. DYCK: If I can just add to the  
19 explanation as well. From a biophysical  
20 perspective, the terrain in the area, because  
21 these components are all in a relatively small  
22 area, the terrain conditions are very similar. So  
23 the issues are, you don't have the diversity that  
24 you have in the larger study area from north to  
25 south, the conditions are very similar from one



1 site to another.

2                   Some of the differences would include,  
3 where there were streams that would traverse some  
4 of the sites that were identified, those would be  
5 flagged both by aquatics and also by mammals and  
6 birds, and amphibians and reptiles as well, because  
7 there was increased habitat value for those types  
8 of features. But in other areas, there wasn't  
9 really any distinction from area to area. So that  
10 it simplifies the process of selection, so to  
11 speak, because there isn't that huge amount of  
12 diversity.

13                   Similarly from a socioeconomic  
14 perspective, the issues are pretty much the same  
15 in the entire area, other than heritage and  
16 resources, which were clearly identified and  
17 surveyed for.

18                   MR. GIBBONS: Thank you.

19                   MR. MCGARRY: Sorry, just one more  
20 point, Mr. Gibbons. The evaluation was done by  
21 disciplines, and you'll find in chapter eight of  
22 the EIS that when we went through the various  
23 components for assessment, we separated out those  
24 components. So there is information for converter  
25 station, there's information for HVDC and so on.

1 I think we broke it into four components for  
2 assessment and it was written up that way in  
3 chapter eight.

4 THE CHAIRMAN: Ms. MacKay?

5 MS. MacKAY: Yes, I'd like to ask  
6 about the collector lines and construction power  
7 lines. And I don't know whether it would be  
8 useful to have slide 83 and 84 available. It may  
9 not matter. But these lines were decided upon in  
10 I think much the same way as the material that  
11 Mr. Gibbons was talking about. So it was based  
12 primarily on technical and functional issues. But  
13 this is six lines going through, and it's going to  
14 be quite a wide right-of-way as a result. And you  
15 took it through what appears to be untouched areas  
16 when there were a number of rights-of-way  
17 available to you for at least part of the line.  
18 And that would show, for the audience, on slide 84  
19 I think. I'm just wondering if you can explain to  
20 us why you chose to go through in the way you did?

21 MR. McGARRY: Ms. MacKay, I believe  
22 that's the image you were speaking of. Is this  
23 the image here on the screen?

24 MS. MacKAY: Yes. You can see there's  
25 a railway there for part of it, there's the

1 Conawapa road, further north there's the ground  
2 electrode line that you could have followed, but  
3 instead it's a line going straight through.

4 MR. MCGARRY: Yes. Again, there was  
5 technical criteria for routing in that way, and I  
6 agree it wasn't done in the same manner. For  
7 instance, following the Conawapa access road did  
8 not lend itself simply by curve or linear routing  
9 and the amount of angles it would require. Those  
10 are six tower lines. Trying to keep them as  
11 straight as possible is paramount, because you do  
12 additional angles, and there are some, but  
13 additional angles mean you'd have to do it for six  
14 lines. And so straight line routing was important  
15 in this case, and also the distance. So again, it  
16 was primarily technical considerations that lead  
17 to this, and then the environmental assessment  
18 team reviewed that decision to see how compatible  
19 it was with environmental or social criteria.

20 MR. DYCK: If I can just add to that,  
21 the lines do parallel the railway line that's  
22 existing there to Amery. And then beyond that,  
23 that's an abandoned railway line to the fort, Fort  
24 Nelson.

25 MS. MacKAY: Okay.

1                   MR. NEUFELD: Perhaps I might make one  
2 other comment about the engineering side of the  
3 designs for those lines. A fairly intensive  
4 review was taken to ensure that that corridor,  
5 which is a fairly wide swath as you have  
6 indicated, that corridor could be narrowed up as  
7 best as possible.

8                   THE CHAIRMAN: Mr. Motheral?

9                   MR. MOTHERAL: I'm very interested to  
10 know the reason for the third, I'm going to call  
11 it in feet, I'm a past farmer and most of my  
12 farming career I was in feet, not in metres. But  
13 I understand the need for the hundred foot  
14 clearance around towers in agricultural Manitoba,  
15 okay. Was there not an instance where you said  
16 that somebody wanted 46 metres, which would be  
17 150 feet, is that correct, in your meetings with  
18 farmers?

19                  MR. MCGARRY: The criteria we landed  
20 on was 42 metres.

21                  MR. MOTHERAL: 42 metres. Is that  
22 going to be a standard space then for the whole  
23 agricultural Manitoba?

24                  MR. MCGARRY: No, the criteria applied  
25 between Provincial Trunk Highway 16 and Riel, so

1 the intensively cropped area of Manitoba that we  
2 traversed. And there the desire, because of  
3 intensive cropping practices and the use of large  
4 sprayers and other equipment, there was a desire  
5 to increase the separation distance between the  
6 road right-of-way and the tower itself, to allow  
7 passage between the tower and the road  
8 unobstructed. And based on the input we got, that  
9 was the decision to move it 42 metres infield  
10 instead of 33.

11 MR. MOTHERAL: So it is going to be 42  
12 metres -- I'm just giving an example. If you've  
13 got a 10 mile stretch in agricultural Southern  
14 Manitoba, that it will be 42 metres all the way?

15 MR. MCGARRY: That's the intention  
16 within the zone I mentioned between 16 and Riel.

17 MR. MOTHERAL: I was concerned that  
18 there was going to be some instances where it was  
19 going to be 42 metres in some places and 30 in  
20 others, which would require an angle, and that is  
21 not going to happen; is that right?

22 MR. MCGARRY: No, the angles on the  
23 route is as we have shown for the final preferred  
24 route.

25 MR. MOTHERAL: I'm sorry?

1 MR. MCGARRY: The final preferred  
2 route shows where the angles are, and that's what  
3 we are proposing, to stick to that route. And 42  
4 metres infield where it parallels a road allowance  
5 is the intention. Where it runs along the half  
6 mile is a different criteria. This is just for  
7 being adjacent to municipal road allowances, where  
8 we are adjacent to it.

9 MR. MOTHERAL: I'm not sure if I quite  
10 understand everything there, but I'll talk to you  
11 later.

12 MR. PENNER: Can I add something in  
13 there? Just in terms of the right-of-way, so the  
14 right-of-way width is 66 metres wide and that's  
15 why the right-of-way, when it follows a road  
16 allowance, the towers will be 33 metres in from  
17 that road allowance, and that's north of highway  
18 16. And then south of highway 16 to Riel, there's  
19 been an additional distance between the  
20 right-of-way and the road allowance of nine  
21 metres. That's why the towers are going to be 42  
22 metres infield.

23 MR. MOTHERAL: Thank you. Now I  
24 understand. From there on it's going to be 42  
25 metres?

1 MR. PENNER: From 16 all the way back  
2 to Riel.

3 MR. MOTHERAL: Yes, thank you.

4 MR. MCGARRY: Sorry, Mr. Motheral,  
5 that's why we have a bigger team here to help with  
6 our clarifications.

7 THE CHAIRMAN: Okay. I think that  
8 brings us to the end of the questioning on route  
9 and site selection. So thank you to those  
10 involved in this.

11 I don't believe there are any other  
12 questions today or cross-examination today on the  
13 Aboriginal engagement. When we return at the end  
14 of October, Mr. Madden will have the opportunity  
15 to examine on Aboriginal engagement, as will  
16 members of the panel. No other participants, the  
17 other participants have all completed their  
18 examination on that, so it will be just Mr. Madden  
19 and the panel.

20 MS. ZEBROWSKI: Could I add one  
21 clarification to some of the remarks I made  
22 yesterday?

23 THE CHAIRMAN: Certainly.

24 MS. ZEBROWSKI: I just wanted to make  
25 one clarification. I should have asked for a

1 clarification when the question was asked of me  
2 yesterday, and in the excitement of the moment I  
3 neglected to do so.

4           When Mr. Dawson and I were having  
5 discussions, he had asked some questions about  
6 table seven on page 87 of the ATK technical report  
7 number one. And I believe the question that I was  
8 asked was -- he had asked to just clarify, I guess  
9 for those in the audience, which communities here  
10 had on the constraints column of that table the  
11 listing of Treaty 1 as a constraint, and he had  
12 listed off a number of communities and I agreed  
13 yes. It occurred to me afterwards that it may  
14 appear that I had agreed that all of those  
15 communities were signatory to Treaty 1, and I just  
16 wanted to clarify that two of those communities,  
17 Dakota Tipi and Dakota Plains are not signatory to  
18 Treaty 1, but they do in the table have Treaty 1  
19 in that constraints column. And further  
20 clarification on this table and this report will  
21 be provided by the expert who prepared it later in  
22 October.

23           THE CHAIRMAN: Thank you. Well, I  
24 think we can now -- Mr. Dawson?

25           MR. DAWSON: I'm glad that it's



1 exciting to be examined by me. I just wanted to  
2 say that I won't take the panels' time to ask  
3 questions that arise out of this clarification and  
4 I'll reserve that for later in the month.

5 THE CHAIRMAN: Thank you. We'll now  
6 move onto the next panel, which is the  
7 construction panel. Mr. Penner and Mr. Elder will  
8 be in the hot seats.

9 MS. MAYOR: If we can just have two  
10 minutes to make adjustments to the seating and  
11 we'll be ready to go.

12 THE CHAIRMAN: Yes. Are we ready to  
13 roll?

14 MR. ELDER: We are.

15 THE CHAIRMAN: Mr. Mills?

16 MR. MILLS: We're going to be asking  
17 some questions of the construction and its effect  
18 on -- not forestry with regards to the routing of  
19 the line but with forestry specifically within the  
20 construction. And we note that Mr. Dyck is here  
21 and available, and we would ask that he be able to  
22 remain and join so that we can -- we may have some  
23 specific forestry construction questions of him.

24 THE CHAIRMAN: Is that a concern?

25 MR. ELDER: That's not a concern for

1 us.

2 THE CHAIRMAN: Okay.

3 MR. MILLS: Thank you.

4 THE CHAIRMAN: What we are addressing  
5 now is the presentation made by Mr. Penner and  
6 Mr. Elder on Wednesday morning. It's in respect  
7 of both line construction and converter station  
8 construction. We'll go for about a half an hour  
9 this morning and then for a couple of hours this  
10 afternoon. If we're not concluded, we'll come  
11 back to it at the end of October.

12 So where is my list? First up,  
13 Tataskweyak, do you have any questions? Okay,  
14 thank you. Pine Creek, Mr. Mills.

15 MR. MILLS: Thank you, Mr. Chairman.  
16 We respect the schedule. We had hoped to spend  
17 about 45 minutes discussing Mr. Tymofichuk's  
18 references to line construction as it relates to  
19 Bosnian and Serbian guerilla issues, but we'll  
20 refer to a later on that.

21 THE CHAIRMAN: It might be a much  
22 later date, early December.

23 MR. MILLS: Good morning, Mr. Penner.  
24 I wanted to start by, Chief Bushie asked me to  
25 thank you for the access that you provided to him

1 and he greatly appreciated the conversation that  
2 he had with you and that we have had with you.

3 We have just a few quick concerns.  
4 Could you explain or elaborate to us as to why  
5 your process chose to include a northern  
6 Aboriginal construction relationship?

7 MR. PENNER: Can you clarify that  
8 question, please?

9 MR. MILLS: Well, in the EIS and in  
10 your presentation, you refer to a northern  
11 construction relationship, a preferred Aboriginal  
12 relationship in the north.

13 MR. PENNER: I'm not quite sure  
14 exactly where in my presentation are you referring  
15 to?

16 MR. MILLS: In the EIS under  
17 construction, there are references to a northern  
18 construction relationship specifically with  
19 Aboriginals. Are you familiar with it?

20 MR. PENNER: I'm not sure if you're  
21 referring to the employment preference --

22 MR. MILLS: Yes.

23 MR. PENNER: -- or northern purchasing  
24 policy?

25 MR. MILLS: I'd prefer to talk about

1 the northern purchasing policy.

2 MR. ELDER: Sorry, Mr. Mills, what is  
3 your question? I'm not clear.

4 MR. MILLS: My question is, could you  
5 elaborate as to why your process chose to include  
6 a northern Aboriginal purchasing policy?

7 MR. PENNER: The northern purchasing  
8 policy has been a part of Manitoba Hydro for many  
9 years. As I said yesterday, the line construction  
10 also has, I guess employment preferences for the  
11 entire line. And I can elaborate a little bit  
12 further. Our northern sections of lines and the  
13 collectors, the preferences will be such, northern  
14 aboriginal, northern residents, then Manitoba  
15 residents, Canadian residents, and all else. For  
16 the central sections of the line, we will have  
17 local aboriginals to the project area, local  
18 residents to the project area, Manitoba residents,  
19 Canadian residents, and then all else. In the  
20 southern areas, what we refer to as our S1 and S2  
21 sections, we will have Manitoba Aboriginals,  
22 Manitoba residents, and Canadian residents, and  
23 then all else. And those are hiring preferences  
24 that we will include in the contracts, and the  
25 intent is that the contractor will have to follow

1 those hiring preferences when he brings on non  
2 supervisory staff. And what it does is it  
3 provides for opportunities for local, for  
4 Aboriginal and Manitoba residents access to these  
5 projects.

6 MR. MILLS: Thank you.

7 THE CHAIRMAN: Mr. Mills, do you mind  
8 if I interrupt and just ask a question? The other  
9 day when you spoke, you said that the Keewatinoow  
10 station would be built under the terms of the  
11 collective agreement. Now, will the transmission  
12 line be built under that collective agreement as  
13 well?

14 MR. PENNER: I can certainly answer  
15 that question. So, Keewatinoow is built under  
16 what's called the BNA, the Burntwood Northern  
17 Agreement. The Burntwood Northern Agreement  
18 essentially covers construction of converter  
19 stations and dams, generating stations, but does  
20 not cover transmission lines.

21 And to further clarify that, in 2009,  
22 we concluded an agreement with IBEW 2034 and the  
23 operating engineers, and 985. And so now we have  
24 something called the transmission line collective  
25 agreement, with the anticipation that this was put

1 together for the Bipole III project.

2 THE CHAIRMAN: Thank you. Mr. Mills?

3 MR. MILLS: Thank you, Mr. Chairman.

4 Mr. Penner, on page 7 you have a slide showing a  
5 clearing right-of-way. Are you able to bring that  
6 up for us?

7 MR. ELDER: Sorry, Mr. Mills -- if I  
8 could just, Mr. Sargeant, add to your question  
9 regarding the BNA. So just to give you a picture,  
10 in the north, the northern converter station will  
11 be built under the BNA. The hiring preferences  
12 for there are, northern Aboriginals from the area  
13 is the first tier. Second tier is existing  
14 northern unions. Third tier would be northern  
15 Aboriginals. Fourth tier would be northern  
16 residents. Fifth tier would be southern union  
17 members. And sixth tier would be Manitobans. And  
18 then the seventh tier would be when we hire  
19 somebody from out of Province.

20 So at the northern converter station  
21 we will be governed by the BNA. The transmission  
22 line will be, as Glenn has explained, will be  
23 mandated under the transmission line agreement  
24 with the preferences he stated. And then in the  
25 southern Riel site, where we don't have a labour

1 agreement, we will be putting the same preferences  
2 in our contracts for Aboriginal preference.

3 THE CHAIRMAN: Is that listed  
4 somewhere in the 800,000 pages of information that  
5 we received, or if not, could you provide that to  
6 us?

7 MR. ELDER: Sure, yes we could. Yeah.

8 THE CHAIRMAN: Thanks.

9 MR. MILLS: So just to confirm, you  
10 indicated that in the north your first hiring  
11 priority is northern Aboriginals; is that correct?

12 MR. ELDER: What I said, Mr. Mills, is  
13 for the northern converter station, which falls  
14 under the Burntwood/Nelson agreement, those are  
15 the hiring preferences for that.

16 MR. MILLS: And then later I heard you  
17 say those same preferences will hold for the  
18 southern work, southern and central work?

19 MR. ELDER: What I said, for the  
20 southern work there will be an Aboriginal  
21 preference through contracts, it's not through a  
22 labour agreement.

23 MR. MILLS: If on that northern  
24 project Aboriginals are the first priority, in the  
25 central region are Aboriginals the first priority?

1 MR. PENNER: To answer the question  
2 I'm going to repeat the hiring preference for the  
3 central sections, which is where Pine Creek is in.  
4 We have local Aboriginal to project area.

5 MR. MILLS: First priority?

6 MR. PENNER: As first priority.

7 MR. MILLS: That's all I need, thank  
8 you. I just want to keep this short. That was my  
9 point.

10 THE CHAIRMAN: Yes.

11 MR. MILLS: Can you call up the  
12 clearing ROW slide at the top of page 7 for that  
13 screen?

14 MR. ELDER: Is this the slide you're  
15 looking for, Mr. Mills?

16 MR. MILLS: No, it's beyond that.

17 Mr. Penner, is that example of width  
18 and thoroughness of clearing, would that be  
19 typical to what would take place through the  
20 forested area above Pine Creek, across the river  
21 watersheds?

22 MR. PENNER: This is an example of  
23 clearing on the Wuskwatim project. And actually  
24 the width of this clearing is 120 metres wide,  
25 because there's two transmission lines through



1 there. This is a double width corridor. But I  
2 use this picture to identify the stacks of timber,  
3 and I thought it was one of our best pictures to  
4 show. So it is actually twice as wide as what the  
5 Bipole transmission line right-of-way would look  
6 like.

7 MR. MILLS: Thank you. Your proposed  
8 construction schedule where the right-of-way  
9 clearing crosses the North Duck, South Duck, Pine  
10 and Slater watersheds above Pine Creek, what is  
11 your construction schedule for that work? So the  
12 central clearing portion of your work, assuming a  
13 licence issues to your schedule, when do you  
14 propose to do that work?

15 MR. PENNER: Our current construction  
16 schedule shows us starting, if we have a winter  
17 season, once we receive licence we will start  
18 working in sections N1, 2 and 3, the first season,  
19 and in the second season beginning work in N4.  
20 And our anticipation is that we may start in C1  
21 and C2 in the second season, but it may be  
22 deferred to the third season as well.

23 We have a little bit of flexibility in  
24 terms of where we start and when we start in terms  
25 of that construction schedule. But at this point,

1 this is where we are expecting it to start.

2 MR. MILLS: If we use the distance  
3 across the Pine Creek watershed as being 90  
4 kilometres, and if we assume your schedule, what's  
5 the duration of that work on the clearing portion  
6 only?

7 MR. PENNER: We would expect clearing  
8 in C1 to take, well, probably in the order of one  
9 winter season.

10 MR. MILLS: Four months, fair to say?

11 MR. PENNER: It's fair to say that  
12 approximately four months is what we would expect  
13 that to take.

14 MR. MILLS: Thank you.

15 THE CHAIRMAN: Can I just interrupt  
16 again? When you say season, are you talking years  
17 or are you talking three or four month periods?  
18 When you said season two or season three, was that  
19 a year?

20 MR. PENNER: I apologize for that. So  
21 for our northern construction, we can only  
22 construct in the north because of access. So when  
23 I have referred to a year, like season one would  
24 be year one. So N1, 2 and 3, we'd like to start  
25 in winter season one, followed by -- we expect

1 that N1, 2 and 3 will take at least two winters to  
2 clear. So the idea would be that we start  
3 clearing in the first winter season, and that may  
4 take us till end of March or April, it depends on  
5 when the frost starts to come out of the ground.

6 THE CHAIRMAN: What I was trying to  
7 get to was, Mr. Mills is asking you about the area  
8 around Pine Creek, the C area. When you said that  
9 will be season two, is that the summer of '13, or  
10 is that the next winter, a year later?

11 MR. PENNER: Well, we expect that  
12 there is a number of areas within C2, C1 and C2  
13 near the Pine Creek area that are going to need  
14 winter construction. And so we would be looking  
15 at that. And what I meant is that that would be  
16 either winter two or winter three construction.

17 THE CHAIRMAN: Thank you.

18 MR. MILLS: Mr. Penner, I understand  
19 that the need for winter construction that you  
20 just described is, and I read it in your impact  
21 statement, is a form of mitigation of effect on  
22 the watershed. You prefer to work on frozen  
23 ground so that you can get your work done, return  
24 to a status, and exit. Is that fair to say?

25 MR. PENNER: Yes. Winter construction

1 is very important for stream crossing, for  
2 crossing any areas where the moisture is such that  
3 we would not be able to traverse across it in  
4 summer time.

5 MR. MILLS: In fact, your EIS and your  
6 responses make it very clear that you are relying  
7 upon frozen ground as the watershed mitigation  
8 where you cross above Pine Creek. Is that fair to  
9 say?

10 MR. PENNER: I think frozen ground is  
11 part of the mitigation. In my slides, and if I  
12 could have them, I believe the next slide?

13 So part of the mitigation at any  
14 stream crossing is to have a buffer zone where the  
15 trees are not cut the same as the rest of the  
16 right-of-way. And in this case, you can see the  
17 buffer zone where the trees have not been cut.  
18 And in this case, it may be a little bit difficult  
19 to tell, but in the first season we actually laid  
20 down pine valves (ph) across the roadway to  
21 prevent any erosion or sedimentation into the  
22 stream during the spring runoff. So once the  
23 first season of green growth came back in that  
24 area, that would no longer be needed, but it was  
25 to enable a mitigation measure to make sure that

1 there wasn't erosion or sedimentation in that  
2 stream.

3 MR. MILLS: Mr. Penner, thank you.  
4 Your right-of-way, as it crosses above Pine Creek,  
5 crosses four fairly significant waterways, and you  
6 have described the buffer zone that you offer.  
7 Can you confirm the depth of the buffer zone that  
8 you would provide where you cross those four  
9 waterways? Twenty metres, 100 metres, 200 metres?  
10 Could you arrange your pole spacing to give us the  
11 largest possible buffer zone? Could you give some  
12 comfort in the buffer zones?

13 MR. PENNER: Thank you. Could you  
14 just give me a moment?

15 MR. DYCK: The environmental  
16 protection measures in appendix 11(a), 11(1),  
17 identify the buffer zones and setback distances on  
18 all streams and sensitive sites, so they are  
19 recorded there.

20 MR. MILLS: Can you tell me what they  
21 are?

22 MR. DYCK: I believe it's 30 metres as  
23 the standard buffer and some are actually beyond  
24 that.

25 MR. MILLS: That's all I need, thank

1 you.

2 MR. DYCK: There's different types of  
3 operating methods within various areas.

4 MR. MILLS: Thirty metres is fine,  
5 thank you.

6 Mr. Penner, will any herbicides be  
7 used in the right-of-way clearing where it crosses  
8 above Pine Creek?

9 MR. PENNER: I'm sorry, you need to  
10 repeat that? I didn't hear the first word.

11 MR. MILLS: I'm sorry. Is it your  
12 plan to use any chemicals or herbicides in  
13 creating the right-of-way where you cross those  
14 waterways above Pine Creek?

15 MR. PENNER: We will be only using  
16 mechanical methods to do clearing. We will not  
17 use herbicides or chemicals to create the  
18 right-of-way.

19 MR. MILLS: Thank you. It may not --  
20 I suspect the answer, so I'll let it go.

21 We have some questions of the -- we  
22 have great concerns that the right-of-way will  
23 affect the watershed. And I appreciate  
24 Mr. Chairman allowing me a touch of latitude and  
25 I'll move quickly with Mr. Dyck, but we have some

1 questions with regards to that.

2 Mr. Dyck, you, in both the EIS and in  
3 words here, have made very strong statements that  
4 the right-of-way clearing will have no effect on  
5 the watershed. Is that fairly accurate?

6 MR. DYCK: Standard practices in  
7 construction and clearing in the winter time --

8 MR. MILLS: I believe you said, as you  
9 spoke, that there will be no effect on the  
10 watershed?

11 MR. DYCK: I will just qualify that,  
12 okay.

13 MR. MILLS: I think --

14 MR. DYCK: Standard practices are that  
15 when you work on frozen ground conditions, there  
16 is virtually no soil disturbance, hence there's no  
17 interference with drainage patterns that are  
18 existing and, therefore, no effects on the  
19 watershed, or on the drainage pattern that's  
20 existing at that point.

21 MR. MILLS: So is it your position  
22 that the right-of-way clearing, the subsequent  
23 right-of-way and maintained clearing will have no  
24 effect on the watershed?

25 MR. DYCK: Yes, given the

1 circumstances and the mitigation measures that are  
2 put in place, there should be no effect on the  
3 watershed.

4 MR. MILLS: Thank you. Did you do any  
5 specific research with regards to the Pine Duck  
6 and Slater creeks and rivers where the  
7 right-of-way will cross them?

8 MR. DYCK: I am quite familiar with  
9 the area personally. I have worked in that area.  
10 It's at the foot of the Duck Mountain. The area  
11 in question there is permeated full of beaver  
12 dams, so there's not a huge gradient there,  
13 there's not a real rapid flow of water.

14 MR. MILLS: You'd be very familiar  
15 with that area with your work with LP in the '90s,  
16 is that fair to say?

17 MR. DYCK: With the Province of  
18 Manitoba, and with Repap Manitoba and with LP,  
19 yes.

20 MR. MILLS: Okay. I read the  
21 information that was provided, and I found it  
22 regrettable, but perhaps the best study of that  
23 watershed, the one you have just described, was  
24 provided by, in fact was commissioned by LP, and  
25 was provided by Watertight Solutions Limited. Are



1 you familiar with that study?

2 MR. DYCK: No, I'm not.

3 MR. MILLS: You aren't. Watertight  
4 was commissioned by LP to speak to the effect of  
5 clear cutting on the watershed above Pine Creek.  
6 This report regrettably was provided to CEC  
7 previously in an edited, photo-shopped draft form.  
8 After much digging, and I appreciate and  
9 acknowledge the support of the province, we  
10 obtained a copy of the report. And it clearly  
11 indicates that the magnitude of the increase in  
12 the flow is proportional to the area harvested in  
13 a watershed. And it states that water yield will  
14 change following any harvesting, and increases in  
15 annual water yield of zero to 60 percent as a  
16 result of harvesting are reported and documented  
17 in this report.

18 I'm disappointed that you haven't  
19 looked to that study as it specifically speaks to  
20 the effect of forestry and clear-cutting in the  
21 watershed. And I would ask if you could undertake  
22 to review that report? If you need a copy, we'll  
23 provide it, so that we could address it later on  
24 in the process with you specifically?

25 MR. DYCK: Sure, I can review that

1 report. One thing I would mention is that --

2 MR. MILLS: Thank you.

3 MR. DYCK: -- it's standard  
4 information that there's increases in water flow  
5 where there is a large scale forest harvesting,  
6 also where there are widespread forest fires  
7 there's increase in water flow in watersheds.  
8 Those are all standard readily available  
9 information.

10 MR. MILLS: I suspect you'll find that  
11 Watertight concludes that any form of harvesting  
12 or clearing will cause an increase in water flow,  
13 but I'll ask you to review that report and we can  
14 debate that later.

15 MR. DYCK: Yes, it certainly depends  
16 on the size of the area cleared.

17 MR. MILLS: One final question,  
18 Mr. Dyck. When you worked for Lac Seul First  
19 Nation, did you not conclude that any form of  
20 harvesting in their forestry region would increase  
21 water flow in the watershed?

22 MR. DYCK: Say that again, please?

23 MR. MILLS: When you worked on the Lac  
24 Seul study, did you not conclude that any form of  
25 harvesting in that watershed would increase water

1 flow?

2 MR. DYCK: We're talking about a loss  
3 of use study?

4 MR. MILLS: Yes.

5 MR. DYCK: Give me the context here,  
6 what are we comparing?

7 MR. MILLS: It's in your CV, you can  
8 refer to it.

9 MR. DYCK: Oh, you're taking this from  
10 the CV?

11 MR. MILLS: You list this in your CV,  
12 I read the report.

13 MR. DYCK: Okay. I'm just trying to  
14 get context here. What was the context of this?

15 MR. MILLS: You stood in front of us  
16 and made a very powerful unequivocal statement  
17 that the right-of-way clearing of Bipole will have  
18 no effect on the watershed. I have information  
19 from others that indicate that it clearly will.  
20 And I believe that you supported that argument in  
21 the Lac Seul study you contributed to. So I'm  
22 just trying to reconcile your position as you work  
23 for Hydro and your position as you worked for Lac  
24 Seul on a previous watershed concern.

25 MR. DYCK: I think the context is

1 entirely different here if you were talking about  
2 the loss of use study over a large area and the  
3 events that took place in a historic sense, it's a  
4 completely different project.

5 MR. MILLS: Well, we'll get back to  
6 that later on. Those are my questions of these  
7 two gentlemen.

8 Mr. Penner, in closing we observe that  
9 the default setting on mitigation in the watershed  
10 for Hydro appears to be frozen ground, and we  
11 discussed this at a community meeting, and it  
12 seems fascinating to us that that is relayed upon  
13 with such consistency. The elders of Pine Creek  
14 First Nation are prepared to offer to you a pseudo  
15 Ojibway contiguous cold water prayer to ask Mother  
16 Earth in that regard. And the Chief wanted me to  
17 let you know if you'd like, we can forward a draft  
18 of that form of agreement for your consideration.  
19 I'm joking.

20 Thank you, and we'll get back to these  
21 in our presentation.

22 THE CHAIRMAN: Thank you, Mr. Mills.

23 MR. BEDFORD: In order for Mr. Dyck to  
24 fulfil the undertaking he's just given, Mr. Mills  
25 will have to provide us with a copy of this

1 Watertight report to which he referred?

2 MR. MILLS: Then we will.

3 MR. BEDFORD: Thank you.

4 MR. DYCK: And if I could just  
5 clarify, the Lac Seul study, that it had to do  
6 with a reservoir flooding environment, that's what  
7 that work was about.

8 MR. MILLS: I have read the report.  
9 Thank you.

10 MR. DYCK: I was just trying to put  
11 context to that.

12 THE CHAIRMAN: Thank you. We'll take  
13 a break for lunch in a moment. When we return  
14 from lunch, the order on the list will be Bipole  
15 Coalition and Consumers Association of Canada.  
16 That's all. We will adjourn now and come back for  
17 one o'clock please.

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1 (Proceedings recessed at 11:55 a.m.)

2 (Proceedings reconvened at 1:00 p.m.)

3

4 THE CHAIRMAN: Okay, I think everybody is  
5 ready to go, I see, Mr. Meronek just anxious to get  
6 at it, and Mr. Bedford also. So, Mr. Bedford?

7 MR. BEDFORD: Mr. Elder, on Wednesday  
8 morning, I understand gave an undertaking regarding  
9 the distance between Gillam and Keewatinoow, and he  
10 ready to answer that undertaking, and he is ready as  
11 are his colleagues, for questions.

12 MR. ELDER: Just to clarify the distance  
13 from Gillam to the construction site, is 79,  
14 approximately 79 kilometers. The discrepancy, the  
15 construction site is about 15 kilometers long, so, it  
16 depends whether you are measuring to the converter  
17 station, or to the camp.

18 THE CHAIRMAN: Thank you. Any other  
19 housekeeping matters? We will return to examination  
20 of Hydro. Mr. Meronek?

21 MR. MERONEK: Thank you, Mr. Chairman. I  
22 am trying a little experiment this afternoon, I have  
23 gotten rid of the sidewalk rails, and I am going to  
24 ride my bike without binders today.

25 THE CHAIRMAN: We are all anxious to see

1 what happens.

2 MR. MERONEK: I just have a few questions,  
3 actually. I just want confirmation from the panel  
4 as to the construction schedule for agricultural  
5 Manitoba, the intensive agricultural land. Am I in  
6 correct understanding it is going, the construction  
7 will take place in the winter season?

8 MR. PENNER: No, at this time, the current  
9 plan would be we would start in the second summer  
10 season in the south.

11 MR. MERONEK: I think it is evident that  
12 that is probably the worst time of year for  
13 construction on agricultural land. Is there any  
14 reason why it couldn't be done in a different season?

15 MR. PENNER: Looking through our planning,  
16 and reviewing, the amount of time that we have to  
17 construct the project, we are constrained in the  
18 north to the winter season. And we only have, what  
19 is left is the spring, summer, and fall. Spring of  
20 which is typically extremely wet, very difficult to  
21 do any kind of construction, or moving any equipment  
22 due to road restrictions. So the remainder is  
23 summer, and fall. If we are going to meet our  
24 in-service date of 2017.

25 MR. MERONEK: Is that inviolate, or is

1    there any flexibility in terms of seasonal  
2    construction in the south?

3               MR. PENNER:  I am sorry, could you repeat  
4    that question.

5               MR. MERONEK:  I said is that schedule  
6    inviolate, or is there any flexibility in considering  
7    doing as much construction in the south as possible  
8    in a season other than the summer?

9               MR. PENNER:  Our schedule is very firm  
10   right now.  We are constrained with those five  
11   years.  It is going to be difficult to complete the  
12   project in that time period.  We will do our best to  
13   construct in the summer, and fall periods, avoiding  
14   the springtime.  But it is, we are certainly very  
15   constrained in our time.

16              MR. MERONEK:  I take it the fall back  
17   position, is it will all get sorted out through  
18   compensation?

19              MR. PENNER:  Our intent would be that we  
20   notify agricultural, farmer ahead of construction  
21   time which year we would be going through those  
22   areas.  And we would hopefully let them know prior to  
23   them putting a crop in that area.  And if not, if  
24   they have put a crop in, we would certainly look at  
25   compensating for crop damages, and any kind of damage



1 as a result of the construction process.

2 MR. MERONEK: Thank you. Just on another  
3 topic, as I lay awake at night, last night struggling  
4 to get to sleep, sounded like Mr. Tymofichuk, I was  
5 thinking about ground electrodes. And in Chapter 3  
6 of your EIS, there was some narrative on the current  
7 flow, and the voltage flow for ground electrodes.  
8 The ground electrode line operation, and the spin  
9 wheel of the ground electrode. And, as I understand  
10 the narrative, there is low voltage in normal  
11 situations for the ground electrode, but at times,  
12 when there is maintenance, or when there is repair, a  
13 malfunction, that increases to some extent, did I  
14 capture that correctly?

15 MR. ELDER: Yes. So from a safety  
16 perspective, I think is your question, when we are  
17 operating the electrode, the safety to personnel  
18 would be no different than when we are in the bipolar  
19 configuration. A good example of this, is the two  
20 electrode sites around the Dorsey area, there is no  
21 fencing around them. There is agricultural  
22 production around them. So, from a step potential,  
23 human health issue, there is no concerns.

24 MR. MERONEK: So, as I understand it, I am  
25 advised, that there have been situations with Bipole

1 I, and Bipole II, where there has been a monopolar  
2 mode in operation for several months at a time, which  
3 would increase the voltage in terms of the earth  
4 gradient. Is that -- is that accurate?

5 MR. ELDER: Just one moment please. My  
6 understanding, is we haven't had situations where we  
7 have had multiple months of monopolar operation.

8 MR. MERONEK: To the extent you have, has  
9 that been measured as to what the voltage at the  
10 earth gradient is over what distance?

11 MR. ELDER: Sorry, could you repeat your  
12 question?

13 MR. MERONEK: Yes, in situations where  
14 there has been monopolar mode for Bipole I, and  
15 Bipole II, has there been a measurement as to what  
16 the resulting voltage for the earth gradient would be  
17 in those locations?

18 MR. ELDER: Are you talking step potentials  
19 in the general region?

20 MR. MERONEK: Yes.

21 MR. ELDER: Yes, that was done as part of  
22 the planning work for Bipole III here.

23 MR. MERONEK: Could you advise me as to  
24 what those measurements were?

25 MR. ELDER: Not off the top of my head, but

1 we could certainly get you that information.

2 MR. MERONEK: Appreciate that. Lastly,  
3 Mr. McGarry yesterday punted these questions to an  
4 engineer, and I am not sure how many more  
5 opportunities I will get to talk to an engineer.  
6 But, when it, when it came to the decision of  
7 Manitoba Hydro to move the routing off road  
8 allowances for reliability concerns, and clearance  
9 violations, did any of you gentlemen have a role to  
10 play in those decisions?

11 MR. PENNER: I don't think anybody at the  
12 panel had a role in any of those decisions. Can you  
13 ask specifically, what, what the question is?

14 MR. MERONEK: We discussed yesterday that  
15 the agricultural technical consultant had, or at  
16 least the initial routing for Bipole III was along a  
17 half mile line, then it got changed to a road  
18 allowance, and then because of a couple of concerns  
19 that Manitoba Hydro engineers had over potential  
20 accidents, and signage violations, that the decision  
21 was made by Manitoba Hydro to place the towers more  
22 into the farmer's fields. And I got the impression  
23 from Mr. McGarry, that was an engineering decision  
24 and I just like to ask an engineer from Manitoba  
25 Hydro, as to why --

1           MR. PENNER: Can you give me a moment to  
2 confer with my colleagues?

3           MR. MERONEK: Sure.

4           MR. PENNER: I think I spoke to some of  
5 this a little bit earlier this morning. The right  
6 of way is adjacent to the road allowance, and the  
7 towers are on the center of the road allowance. So  
8 the 33 meters that we talk about the tower being  
9 offset from the road allowance, is the center of the  
10 right of way. So that the right of way is not  
11 inside of the road allowance except where, what I  
12 understand, that we heard from farmers, that between  
13 Highway 16, and Riel, there was an additional 9  
14 meters added between the road allowance, and the  
15 right of way so that the towers are centered 42  
16 meters from the right of way -- or from the road  
17 allowance.

18           MR. MERONEK: I heard that this morning,  
19 but, and maybe I will have to save this for the  
20 agricultural consultant, but my understanding is that  
21 the towers were going to be placed closer to the road  
22 allowance, but, that Manitoba Hydro engineers decided  
23 for safety reasons, that is vehicles, may crash into  
24 the transmission towers, or there might be a sign put  
25 up that might impact the transmission conductor

1 lines, the decision was made to move, to route  
2 further in field? Are you aware of that?

3 MR. PENNER: Yes, I heard that discussion  
4 yesterday. I think there was certainly some  
5 confusion around where the towers would be placed and  
6 possibly in initial stages of some of those  
7 discussions, but from an engineering perspective, it  
8 was always seen as the towers would be on the center  
9 of the right of way.

10 MR. MERONEK: So these, this reliability  
11 concern, and signage clearance violation that was  
12 spoken about in the agricultural technical report was  
13 inaccurate?

14 MR. PENNER: A moment, I am just going to  
15 confer with my colleagues.

16 MR. PENNER: I understand, in discussions  
17 with my design colleagues, that over the last ten  
18 years, that transmission lines through southern  
19 Manitoba have typically been placed in the center of  
20 the right of way. Their may be some older  
21 installations of transmission lines where they are  
22 moved closer to the edge of the right of way. It  
23 becomes an issue with the conductor swing out in term  
24 of, we don't control outside the right of way. And,  
25 so, we can't control what could get placed in the

1 road allowance. So, it becomes maintenance issues,  
2 when it comes to ditching there are other issues with  
3 the foundations.

4 So, in regards to your question, whether  
5 that, the technical report is incorrect, there may  
6 be, may have been some confusion between the report  
7 writer, and the intention of the design engineer.

8 MR. MERONEK: Just, and we will cover that  
9 off, when the time comes, but just as a follow-up  
10 question, you may not have any control over the  
11 property between the right of way, and the, and the  
12 road allowance, but clearly, if through discussions,  
13 and cooperations with either land owners, or whoever  
14 owns the land including municipalities, clearly you  
15 could discuss with them as to whether or not it would  
16 be a good idea to put signs up or not? Isn't that a  
17 possibility?

18 MR. PENNER: I am sure there would be a  
19 possibility for discussion amongst those things, but  
20 again we don't control that, and our, like I said,  
21 our standard practice is to have the transmission  
22 towers in the middle of the right of way so that we  
23 avoid any kinds of concerns that may go on outside of  
24 our right of way.

25 MR. MERONEK: There aren't really any

1 safety issues are there, sir, with respect to placing  
2 the transmission lines closer to a road allowance  
3 that can't be alleviated by putting barriers up?

4 MR. PENNER: I am sorry, could you repeat  
5 that question.

6 MR. MERONEK: Yes, one of the assertions is  
7 that having a tower close to the road allowance  
8 creates an opportunity for vehicles running into the  
9 transmission towers, and, and causing damage. And,  
10 I am simply suggesting to you, that that could be I  
11 eliminated by having a barrier placed along the side  
12 of the road where there is a tower?

13 MR. PENNER: I mean that, that certainly a  
14 possibility of a method for sure. It also becomes  
15 the, the barriers, if such were placed could also be  
16 essentially, a hazard to the driver. It is not just  
17 the tower that is a safety concern in that matter.

18 MR. MERONEK: Well, I don't want to be  
19 giving evidence, I guess, in court proceedings you  
20 call this judicial notice, I guess you could call it  
21 quasi-judicial notice here, but if you drive along  
22 Wilkes Avenue, and the corner of Wilkes Avenue, and  
23 Waverley, one route is 70 kilometers an hour, one is  
24 60 I believe. There is a horking big transmission  
25 tower, with a big barrier right on the corner, are

1 you familiar with that?

2 MR. PENNER: I think I have seen it, yes.

3 MR. MERONEK: Is there any reason that  
4 can't be accomplished in the country side along road  
5 allowances?

6 MR. PENNER: It is probably a possibility.

7 MR. MERONEK: Thank you, sir. That wasn't  
8 so bad. Those are my questions.

9 THE CHAIRMAN: Thank you, Mr. Meronek,  
10 that wasn't bad at all.

11 Mr. Williams? Mr. Dawson? Let's just  
12 have -- Mr. Mills.

13 MR. MILLS: We have very brief questions,  
14 with Mr. Elder, if we would be allowed to go now.

15 THE CHAIRMAN: Certainly.

16 MR. MILLS: Thank you, Mr. Chair. Mr.  
17 Elder. Your construction schedule indicates 2013  
18 licence acquired.

19 MR. ELDER: I am sorry.

20 MR. MILLS: The information you provided  
21 us your construction schedule slide indicated 2013  
22 licence acquired on your construction schedule?

23 MR. ELDER: That was an assumption.

24 MR. MILLS: Based on that assumption your  
25 subsequent slide called, Current construction project



1 activities that are underway such as procurement,  
2 camp contracts, engineering and contract development,  
3 and development of project staffing, could you give  
4 us some sense of what your throw away costs are, as  
5 of today? In other words, if the licence wasn't  
6 granted, or if it was granted in a form that didn't  
7 allow Hydro to proceed with this work, how much money  
8 does Manitoba Hydro have as throw away costs today,  
9 and what would those costs be assuming you continue  
10 this work to the date of licence acquired? And  
11 rounded to a million bucks, would be fine. But, we  
12 get the sense that you are spending money, and we  
13 would like to understand how much, and, and at what  
14 rate. Am I clear?

15 MR. ELDER: Yes, just give me a second  
16 please.

17 MR. MILLS: If you want to provide it as  
18 an undertaking and give us more accurate information  
19 later, I would actually prefer it. I would like, a  
20 good number, that we can rely upon.

21 It is late on a Friday, I don't need to  
22 spend the time while we do this if you want to bring  
23 it back later.

24 MR. ELDER: Just one moment.

25 THE CHAIRMAN: If you you can provide it

1 now, I would prefer you do that.

2 MR. ELDER: Mr. Mills just so I am clear on  
3 your question. You are asking what the sum costs  
4 are on the project to date?

5 MR. MILLS: Yes.

6 MR. ELDER: For overall Bipole III project.

7 MR. MILLS: I would love that number. I  
8 was looking at your converter work. I would prefer  
9 the overall Bipole. But I was responding to your  
10 providing us with the two converter stations, the  
11 construction schedule, and the work that you have  
12 under way, in anticipation of a 2013 permit.

13 MR. ELDER: What I can tell you, is I don't  
14 have the man hours spent to date. Obviously, on the  
15 licencing piece, and that the major contracts that we  
16 have let is, is the lagoon work, the and that is to  
17 get that prepared should we get licenced.

18 MR. MILLS: Yes.

19 MR. ELDER: The camp work, and --

20 MR. MILLS: Engineering, and contract  
21 development?

22 MR. ELDER: I don't have those numbers, but  
23 we are probably, on the contracts we have let on the  
24 converter station side right now, we are around 45  
25 million dollars.

1           MR. MILLS:    So 45 million dollars would be  
2   the converter station throw away costs if the permit  
3   doesn't proceed?

4           MR. ELDER:    Those are the contracts we have  
5   let, and that is roughly the value of the contracts  
6   we have let to date.

7           MR. MILLS:    You are all in.    Thank you.

8           THE CHAIRMAN:  Thank you, Mr. Mills.    I  
9   would like to just take a couple minute time out, so  
10  the panel can confer, we have a number of questions  
11  that we have prepared, but we haven't really had much  
12  discussion about it because we didn't think we would  
13  get to it this afternoon.    Let's take a short time  
14  out, two, three, four minutes and we will get back to  
15  it And carry on for another hour or so.

16

17                         (HEARING RECESSED BRIEFLY).

18

19           THE CHAIRMAN:  Okay, end of the time out.  
20  We, we are going to proceed with our questioning, it  
21  may be slightly stilted, because I am just going to  
22  be reading questions off of a page as they were  
23  written without having really digested them.    So,  
24  first, other panelists have some other questions,  
25  that we will address first, but, before we even do

1 that, I understand, Mr. Mazur, and, or Neufeld have  
2 some clarification to make.

3 MR. NEUFELD: There were two items, that,  
4 two questions that were discussed earlier, the one  
5 was addressed by Mr. Meronek, with regard to putting  
6 bollards or protection devices around towers that  
7 could conceivably be used closer to, close to a  
8 roadway.

9 The nature of Bipole III, is such that it  
10 is a major transportation corridor. We would want  
11 to reserve the, the full reliability of that  
12 facility, specifically as it relates to the towers,  
13 and not, not move those, have the alternative of  
14 having those towers closer to a roadway. Mr. Penner  
15 talked about the safe, the concerns, about safety as  
16 it related to vehicles. If you have got those  
17 bollards closer to a highway, and certainly on a day  
18 like today, I think we can appreciate that there is  
19 going to be a lot of cars slipping into the ditch, so  
20 that is a concern. We wouldn't want a tower exposed  
21 to, for example, a semi taking it down. It is  
22 carrying a lot of power. We would just like to  
23 clarify that those towers should remain further away.

24 THE CHAIRMAN: Thank you. Mr. Gibbons,  
25 you have some questions, on construction points --

1                   MR. NEUFELD: One other item if I could  
2 clarify, it is with respect to the grounding  
3 electrode. I would add to what Mr. Elder referred to  
4 earlier in terms of the design of the grounding  
5 electrode, and the question that was raised whether  
6 there would be a voltage rise as a result of a  
7 prolonged period of time running monopolar. And,  
8 that is not how it works. If we recall, my brief  
9 explanation this morning in term of looking for  
10 places that have good ground conductivity. Good  
11 conductivity means you won't have voltage rice, what  
12 happens is over a prolonged period of time the soil  
13 will start to heat up, but that is taken into account  
14 with the design parameters.

15                   THE CHAIRMAN: Thank you. Does that cover  
16 it now?

17                   MR. NEUFELD: That covers it.

18                   THE CHAIRMAN: Thank you. Mr. Gibbons, on  
19 construction questions.

20                   MR. GIBBONS: Yes, several points of  
21 clarification, and further information. And no need  
22 to go back to this particular slide, but there was,  
23 in the, this is for -- sorry, for Mr. Penner, slide  
24 7, without going back there, showed a piece of  
25 machinery, and you were saying earlier that when it,

1 when you do the clearing of the right of way that it  
2 removes everything above the surface, but retains the  
3 root ball, so that underbrush can regrow, and so on.  
4 Since there has been concern raised by not only  
5 during these hearings, but prior to the hearings and  
6 submissions from different groups, and the idea of  
7 country food, the example, one example was harvesting  
8 blueberries, et cetera, do you have a sense, given  
9 that type of clearing method, how long it would take  
10 for those shrubs to come back, and I am imagining  
11 among those shrubs, would be blueberries and things  
12 of that nature. From past experience, does it take  
13 a period of time until shrubs are able to produce  
14 things like blueberries. I am not sure in other  
15 words, the clearing, it creates an area, that is more  
16 or less dormant in terms of food production.

17 MR. PENNER: I am going to check with my  
18 colleagues, in terms of the blueberries.

19 So, we have a couple of different methods  
20 of clearing. With this method of clearing, what I  
21 explained earlier, is that it doesn't take the root  
22 mass, and it doesn't dig up the soil, and so it does  
23 take, the first season back, will you see grass  
24 growing, immediately, grasses, but shrubs take a  
25 little longer to come back, it maybe several seasons

1 specifically blueberries.

2 Now the typical area that we will find  
3 blueberries in, will not be in areas of heavily  
4 forested or wooded areas, it would be typically more  
5 of the open area where there are few trees and if you  
6 turn the slide to the next page, next one again yet.  
7 That, this feller buncher type of equipment, would be  
8 going in, and you wouldn't get that ground tramping.  
9 We would be going in, with the this equipment cutting  
10 selected trees. As opposed to coming through, and  
11 shearing that all, all of that off. Is that clear?

12 MR. GIBBONS: It means in that context,  
13 blueberry bushes, and other bushes of that sort would  
14 be relatively undisturbed.

15 MR. PENNER: In areas of traditional use  
16 areas for blueberry gathering, our Environmental  
17 Protection Plan, when we go, like, say, for instance,  
18 in C1, or the Pine Creek area, we will go to that  
19 community, and clarify where their blueberry picking  
20 areas are, and we will mark them out as  
21 environmentally sensitive areas, and we will work  
22 through those with selected clearing type operations.  
23 And that is our typical procedure. As we refine the  
24 construction Environmental Protection Plans, for each  
25 of the sections.

1           MR. GIBBONS: Great. Thank you for that.  
2 Now, the other questions, are all related to the  
3 slide that was there a moment ago, number 14. The  
4 one with the buffer zone on the river. And, here, I  
5 am trying to get a clearer sense of the reasons for,  
6 for the clear cutting that does occur. One of the  
7 things that, to, to a non-engineer, an amateur on the  
8 outside looking in, might ask, is, why the buffer  
9 zones, sorry, why the ROW normally could not look  
10 more like the buffer zone in the sense that, that,  
11 there is a lot less clear cutting done in that  
12 context, lot of trees retained, and so on. Clearly  
13 part of that has to do with the sway, and so forth,  
14 in the line, and so on.

15           Can we get a better sense of what the right  
16 of way would look like after a few years, in terms of  
17 what kind of growth might be seen in a right of way  
18 say, five years after the original cut? This, for  
19 me, to me, for example, looks, like it is a  
20 relatively recent cut.

21           MR. PENNER: Yes.

22           MR. GIBBONS: There wouldn't be under brush  
23 growing, and in addition to under brush, whether or  
24 not small trees, small types of trees, up to a  
25 certain height would be permitted in the right of



1 way, so it was not as barren looking as this might  
2 look. So, can you give us a sense of how that might  
3 occur, and the period of time it might take to occur.

4 MR. PENNER: In the three or four, or five  
5 years as you suggest after the right of way has been  
6 cleared, the grasses grow, because the root mass has  
7 not been disturbed, there will be bushes, those  
8 things start to come back, and trees start to come  
9 back as well. Although, in a northern environment  
10 the trees take a fairly long time to grow back in.

11 So, yes, the right of way certainly greens  
12 up very quickly, and it is a matter of the trees that  
13 are not going to be growing in, and becoming danger  
14 trees, are not something that we would necessarily  
15 go, and remove. But trees, that, end up, or we know  
16 they are going to be growing and have the potential  
17 to grow into the conductor, those are trees that we  
18 have to get after. And, we can't, we can't go in,  
19 and trim every year, and try to trim every tree, so,  
20 what we have to do, is when we are in an area, and,  
21 we know that that tree may grow in five years, and be  
22 done, we have to get over those specific trees, with  
23 a targeted herbicide.

24 MR. GIBBONS: This is a selective process.

25 MR. PENNER: The herbiciding would be a

1 selective process.

2 MR. NEUFELD: There are NERC reliability  
3 standards to which we must adhere, these are for  
4 lines 230 kV and above, there are certain limits  
5 approached that are not allowed by NERC reliability  
6 and tree that exceeds the growth level needs to be  
7 cut down.

8 MR. GIBBONS: Now, one of the things that  
9 has come to our attention, in preparation for the  
10 hearings, is that there are different approaches to  
11 the ROWs. And, one of the examples, that we have  
12 encountered, is from the state of New York, where  
13 there is a kind of a differential growth pattern  
14 within the right of way depending on how close the  
15 growth is to the tower, taking into account the sway,  
16 in the line, the sway is greater in the middle of the  
17 line, but it is less, as you get to the towers,  
18 correct, as you get to where it is anchored, sorry,  
19 when you get close to the anchors, it doesn't sway as  
20 much, the anchors being the towers.

21 Is there, in terms of the Hydro standard  
22 practice, consideration of those kinds of questions?  
23 I understand that they might be more difficult to  
24 deal with, in terms of maintenance, and, that it is a  
25 much more variable kind of right of way maintenance,

1 that would be required, but is that part of Hydro's,  
2 normal practice, so, some --

3 MR. PENNER: Just a moment, I am going to  
4 check with my line maintenance colleagues. So, in  
5 conference, with my maintenance colleagues, what  
6 naturally occurs, is that the shrubs along the sides  
7 of the right of way are allowed to grow a little bit  
8 larger, and you end up with a kind of an arcing  
9 pattern. We allow for larger growth on the edges,  
10 but we need to maintain in the middle, cleared. And,  
11 then, I think you were referring to allowing near the  
12 tower bases to have more trees growing, and in our  
13 situation, with guyed structures, the area around the  
14 guys, needs to be cleared, because those trees become  
15 a danger, or a hazard for the those trees, to fall on  
16 the guy wires as well as on the conductor.

17 So, it doesn't really help to have that  
18 kind of in and out hour glassing. Typically in the  
19 center span, that is where the furthest that the  
20 conductor can swing out. And typically, on average  
21 where the lowest part of the conductor is. But as  
22 you get closer to the tower, certainly the conductor  
23 is higher, but because of those guy wires, it is  
24 important to maintain the edges of the right of way  
25 around those guys, so a tower can't fall on a guy --

1 or a tree can't fall on a guy wire.

2 MR. GIBBONS: That still leaves open the  
3 question of the self, the towers, that don't require  
4 guy wires, could that be done in those areas where,  
5 where the un-guyed towers might be located?

6 MR. PENNER: Well, the un-guyed, or what we  
7 call the self-supporting structures, will only be  
8 used in agricultural land. So --

9 MR. GIBBONS: Only in agriculture --

10 MR. PENNER: So we are using guyed  
11 structures throughout the remainder of the project.

12 MR. GIBBONS: Okay.

13 MR. NEUFELD: The other item I might add,  
14 you referred to the New England area with your  
15 reference, I believe you referred to the New England.

16 MR. GIBBONS: New York state..

17 MR. NEUFELD: In that entire part of the  
18 grid it is probably some of the dense, most dense  
19 transmission corridor, that you will find in North  
20 America. And there is, the lines tend to be shorter,  
21 in a more constrained geographic area, and more just  
22 in time tree trimming, is something that is more  
23 doable. Here we have a transmission corridor, along  
24 with a lot of our transmission, by virtue of the  
25 topography and generation and the load work in this

1 province, we have go generation in the far north  
2 along a lot of transmission lines. That is a lot of  
3 area to clear, and we just wouldn't be staffed up to  
4 do the sort of more just in time type of tree  
5 trimming.

6 MR. GIBBONS: Thank you.

7 THE CHAIRMAN: Mr. Motheral?

8 MR. MOTHERAL: In keeping with the right of  
9 way, as a prime example, I would like you to pull up  
10 a picture, this is on the route site selection  
11 handout on page 23.

12 THE CHAIRMAN: I am not sure they have that  
13 one up.

14 MR. MOTHERAL: I was wanting to use it as  
15 an example. Is it a policy of Manitoba Hydro to  
16 clear the complete right of way no matter what dense,  
17 how dense the vegetation is?

18 MR. PENNER: Is there --

19 MR. MOTHERAL: Is there a possibility of  
20 leaving some. I just happened to see a picture  
21 here, where there is maybe only 40, or 50 trees in  
22 two miles. Is it completely cleared before  
23 construction?

24 MR. PENNER: As my colleague Gerald Neufeld  
25 indicated previously, that it, it is very important

1 that trees don't grow in. However, there are  
2 locations where there is stunted growth, and, where  
3 there is environmentally sensitive zones, such as  
4 caribou calving lands, where we do leave the trees.  
5 And, but it has to be, and when we go through areas  
6 like that, we will select trees, we refer to as  
7 danger trees, there is a calculation to figure out  
8 the height of the tree, where the conductor could  
9 swing to, and then those trees are removed once the  
10 conductors are strung in place.

11 So, there is some selective, but, for the  
12 most part, trees that are expected to grow into the  
13 conductor, will be removed.

14 MR. MOTHERAL: Thank you. I just want you  
15 to realize that there are opportunities to leave  
16 several areas undisturbed because of the less dense.

17 THE CHAIRMAN: Ms MacKay?

18 MS MACKAY: In looking at the development  
19 of the Keewatinoow site, you told us that you needed  
20 to take out the permafrost prior to starting the  
21 construction in preparation of the site. And, we  
22 saw a bit about permafrost also when we saw Gillam  
23 townsite, and the new areas there. I wonder if you  
24 could just tell us a little bit about how you prepare  
25 the site, to thaw the permafrost, and what the impact

1 of that is on the site?

2 MR. ELDER: I will do my best, I am a  
3 mechanical, so my civil colleagues, will be cringing  
4 in the stands. So, yes, the site will tend to be,  
5 will have low lying areas that maybe wet. There  
6 will be permafrost in the area, so typically what you  
7 do is you will excavate down, and let that permafrost  
8 dry out. Pull out all of that, that poor material,  
9 while you are doing, if you are around any creeks,  
10 you put silt control measures in, so you are not  
11 running anything into the creeks.

12 So, on a large site like we have got here,  
13 we will, we will tend to develop zones, so put some  
14 bridging in, roadways in, so we can work the site.  
15 So, if there are some wet areas we can't get in the  
16 spring, website continue to work other parts of the  
17 site. But the basic concept is to dig out the  
18 permafrost, and the poor material, and then build it  
19 back up with good material. So if you look in, in  
20 this picture here, there is all of these brown, are  
21 existing granular deposits that have been identified  
22 to help build that site back up.

23 MS MACKAY: About how long does that  
24 process take?

25 MR. ELDER: Again it is really weather

1 dependent, we are thinking about 18 to two years, to  
2 build the site.

3 MS MACKAY: So it is two years, before you  
4 are beginning construction?

5 MR. ELDER: Construction of installing the  
6 converter equipment, yes. It is about two years to  
7 develop the site off camp.

8 MS MACKAY: If I may, I have one other  
9 small question. This is a slide 23, I think. Just  
10 for information. This is the work force  
11 accommodation. I think. Doesn't seem to be. I am  
12 on page 11.

13 MR. ELDER: Please bear with me for just a  
14 second.

15 MS MACKAY: There it is. Just out of  
16 curiosity, on the right hand side, we have the  
17 supervisory staff accommodation, on the left the  
18 workers accommodation; is that correct?

19 MR. ELDER: Yes, that is correct.

20 MS MACKAY: Do the lines on those area  
21 reflect differences in the size of accommodation  
22 given to the two groups?

23 MR. ELDER: Yes, typically for a modern  
24 camp like this, I guess, maybe I will touch on the  
25 differences from a Wuskwatim camp for instance, there



1 would be gang washrooms, and -- believe it or not,  
2 that is one of the major driving forces from the  
3 construction forces, everybody wants their own  
4 bathroom. So, this camp will have that. And, then  
5 there is normally a couple of tiers of  
6 accommodations, so, on this camp, we have, this would  
7 be the craft dorms, and, I think it is around 130  
8 square feet per room. This will be slightly bigger  
9 for the supervisors, and then there is a management  
10 complex, which will be a little bit bigger still.

11 MS MACKAY: Is it really only slightly  
12 different, it looks, like twice the size.

13 MR. ELDER: The buildings are the same  
14 size. The modules inside, so in this module, there  
15 is 110 rooms, and in this module there is 54 rooms,  
16 so the buildings themselves are the same size, but  
17 the rooms are bigger.

18 MS MACKAY: Is it the case now, that the  
19 craft, the room for the craft workers rooms, do have  
20 their own bathroom facilities, or are they still  
21 using shared facilities.

22 MR. ELDER: With this camp here, they will  
23 have all of their own bathroom facilities, they will  
24 have their own TVs, air conditioning, HVAC control  
25 for their rooms, and such.

1 MS MACKAY: Thank you.

2 MR. ELDER: You are welcome.

3 THE CHAIRMAN: Does that 130 conveyer  
4 feet include the washroom.

5 MR. ELDER: Yes. It does.

6 THE CHAIRMAN: Pretty small. Mr.  
7 Gibbons, you had a follow-up.

8 MR. GIBBONS: I am sorry, I did have a  
9 follow-up. And, it goes back to the guyed towers,  
10 versus the self-supporting towers. If I heard  
11 correctly, what I heard was that the self supporting  
12 towers, are only used in agricultural areas, and the  
13 guyed towers, would be used everywhere else. It  
14 does cross my mind, that there are different way of  
15 interpreting that. Does that mean only the central  
16 section, or central, and southern sections will have  
17 the self-supporting towers, and the north will have  
18 the guyed towers? Or are we talking about  
19 agricultural land per se?

20 In other words, in the central, and  
21 southern regions, particularly central there will be  
22 areas where the line is crossing land that is not  
23 farmland but could be forest or wet lands, swamp. Is  
24 it not technically possible to use the  
25 self-supporting towers in many areas that are not

1 farmland in order to minimize the footprint of that  
2 tower. And, to only use the guyed towers where it  
3 is technically required, in other words, where a  
4 self-supporting tower would not be possible?

5 MR. PENNER: So, there is a cut off. And,  
6 for me to get the exact spot. The self-supporting  
7 towers, will be used in the southern sections, and up  
8 to the point where the agricultural land ends, I  
9 believe, and then from there it would be guyed  
10 structures, and I can I can just check for you, if  
11 you would like further clarification on that. So,  
12 yes, you are right, there would be locations, in  
13 southern Manitoba, where we would be doing a river  
14 crossing, or where we would be crossing through  
15 areas, where it is not agricultural. We would be  
16 using self supported structures in there. We won't  
17 be intermittently putting in guyed structures. Bear  
18 with me one moment, and I will confer with my design  
19 colleagues.

20 My understanding is around the Langruth  
21 area is where we would be switching to guyed  
22 structures.

23 MR. GIBBONS: Now in that context, though  
24 the point of the question is whether or not it is  
25 possible to use the self-supporting towers, which do

1 have a significantly smaller footprint on the land  
2 than the guyed towers would have. In terms of  
3 clearing, and so on. We heard earlier, that the  
4 footprint, so to speak is 60, just under 64 square  
5 meters for a self supporting tower, and considerably  
6 larger for the guyed towers. In from the technical  
7 perspective, is it not possible that there are places  
8 farther north than Langruth, where one could use the  
9 self-supporting towers in order to reduce the amount  
10 of space that needs to be clear cut in order to keep  
11 the areas free of interference with the guyed towers?  
12 In other words, is there a technical reason?

13 MR. PENNER: There is a technical reason  
14 for using the guyed towers, as well. In the north,  
15 when, it is -- one of the things, I guess probably  
16 the first thing is that guyed transmission towers are  
17 significantly more cost effective to use. And  
18 Bipole I, and II, the guyed structures are used  
19 throughout, right through agricultural land. But in  
20 the north, guyed structures, are a much better  
21 structure from a point of view of being able to  
22 adjust, and, to make adjustments if towers tend to  
23 move.

24 What we typically have in southern Manitoba  
25 is clay, and good soil for putting in foundations.

1 In the north we struggle, in the north and central  
2 regions we struggle a lot more with bogs, and, with  
3 wet soils, and rock, and it is a, it is significantly  
4 more difficult to have a foundation that doesn't tend  
5 to move on us as much. And so, we get maintenance  
6 issues with tower bases going up and down with the  
7 permafrost. We don't, we don't typically come in,  
8 and remove the permafrost, we like to come in, and,  
9 do the minimal amount possible, to not disturb. But  
10 permafrost can cause us a number of issues with the  
11 tower base coming up and down. A guyed, structure  
12 allows, significantly more flexibility in being able  
13 to adjust the tension in the guys, and keep the  
14 towers relatively standing upright.

15 On previous lines, we have had corner  
16 structures, with four legs, like the self-supporting  
17 structure in, in this project we are planning to have  
18 guyed corner structures to allow that flexibility,  
19 because we end up spending a lot more time to get  
20 back in to repair four legged structures. So there  
21 are some maintenance issues, and engineering issues  
22 with using a self-supporting structure throughout the  
23 northern regions.

24 MR. GIBBONS: Perhaps my question is not  
25 precise enough. And what I am getting, I think, is a

1 sense that there is a dividing line where above this  
2 line you use one, below this line you use another,  
3 and I guess the question is, above -- is the  
4 decision made on a how should I phrase this? That  
5 you are making that there is a decision from Manitoba  
6 Hydro that everything above this line is done one  
7 way, everything below the line done another, not  
8 taking into condition local conditions.

9 MR. PENNER: There will be some of that,  
10 where self-supporting structures will be above  
11 Langruth location, in spots where using self-  
12 supported towers above that, but it is going to be,  
13 it will be limited as we move into those locations.

14 MR. GIBBONS: That is the kind of things  
15 that could be done if the soil conditions were  
16 appropriate, in say a forested area, so that you  
17 could cut down the amount of space lost, to the  
18 footprint of the tower, is that, I mean,  
19 hypothetically, that is possible? That you could  
20 find spots where you could use a self-supporting  
21 tower, in order to use up less of that forest space  
22 than you would if you had the guyed towers.

23 You were saying earlier guyed towers  
24 require there will be no trees within the footprint  
25 of that tower because of the potential for

1 interference with the guyed wires, so the question  
2 is, are there times when in nonfarm situations, such  
3 as in a forest, where the conditions would be  
4 appropriate for you to use a self-supporting tower in  
5 order to reduce the amount of footprint that the  
6 tower creates by virtue of its guy wires.

7 MR. PENNER: I understand your question.  
8 Just give me a moment, please.

9 So, yes, there could certainly be areas  
10 where a self-supporting structure would meet the  
11 criteria of the soil conditions, and be able to put  
12 them up. The issue becomes more of a cost issue.  
13 Once we are in the north with a guyed structure, it  
14 is significantly cheaper to put in a guyed structure  
15 as well, than it is to put in a self-support  
16 structure.

17 Now, depending upon the, the sensitivity of  
18 the zone, as to whether that would be considered or  
19 not. Is something that would have to be looked at I  
20 guess.

21 MR. GIBBONS: Thank you.

22 THE CHAIRMAN: Mr. Mills, you have had two  
23 kicks at this can. What, what what are you up to  
24 now?

25 MR. MILLS: Mr. Chairman, we believe we

1 heard a contradiction in Mr. Penner's testimony, and  
2 we would like one minute to confirm what it is.

3 THE CHAIRMAN: One minute.

4 MR. MILLS: Mr. Penner, an hour and a half  
5 ago we believe you indicated no herbicides would not  
6 be used in the right of way creation. And just now  
7 you made reference to stump treatments in the  
8 development of the right of way. Manitoba Hydro's  
9 vegetation management practices indicates that stump  
10 treatment involves the application of a herbicide.  
11 We ask that you confirm, that within the water sheds  
12 of the North, South Duck, Slater, examine Pine, that  
13 herbicides will not be used, can you confirm that in.

14 MR. PENNER: I think you are referring to  
15 construction versus maintenance. There will be no  
16 herbicides used during the construction portion of  
17 the work. Can you clarify, you said some sort of  
18 stump treatment.

19 MR. MILLS: You made reference just a few  
20 minutes ago, with regards to a stump treatment of  
21 larger growth trees. We were discussing danger  
22 trees. And you indicated how you would propose to  
23 deal with them.

24 THE CHAIRMAN: Did he specifically say  
25 they would use herbicides in that stump treatment.



1 MR. MILLS: Manitoba Hydro defines stump  
2 treatment as the application of an herbicide.

3 THE CHAIRMAN: Thank you.

4 MR. MILLS: I heard the words come up and  
5 it tripped my trigger.

6 MR. PENNER: I don't recall the words  
7 "stump treatment", and I am a little confused about  
8 the question. We will not be using any herbicides  
9 during the construction. We did talk about  
10 selective clearing, and sensitive zones, that we  
11 would go in with the feller buncher machine, or, hand  
12 clearing, to clear selected danger trees. But, we  
13 talked about -- earlier we were talking about  
14 maintenance, and herbicides. That there would be  
15 selective spraying of trees five years down the road,  
16 for, for right of way maintenance. But, we did not  
17 talk about anything, and we wouldn't use herbicides  
18 in the clearly of the right of way.

19 MR. MILLS: Can Pine Creek assume.

20 THE CHAIRMAN: We will have to take Mr.  
21 Penner at his word, that no herbicide will be used.  
22 We will be at some other time be tracing ongoing  
23 maintenance. So you have had your one minute now.

24 MR. MILLS: You referred to danger trees,  
25 and a height. What is the height of a danger tree

1 on the Bipole III line.

2 MR. PENNER: There is a formula, and  
3 drawing put together, and it relates to the height of  
4 the conductor, the distance the tree is away from the  
5 centerline of the right of way, and, it is calculated  
6 based on that. So that it is essentially a fall  
7 distance from, if the tree is tall enough, could fall  
8 and hit the conductor, it becomes known as a danger  
9 tree, and must be trimmed out of the buffer zones  
10 that we show in there. So, that we essentially make  
11 sure any tree, the danger trees, can't fall onto the  
12 conductors.

13 MR. MILLS: I appreciate that, have we  
14 seen the description of danger tree heights yet, or  
15 is it information to come to us.

16 MR. PENNER: Can you repeat that?

17 THE CHAIRMAN: I think he answered that  
18 they are working on it. We haven't seen it yet.

19 MR. MILLS: We haven't seen danger tree  
20 heights yet, thank you, we look forward to that.

21 THE CHAIRMAN: Thank you, Mr. Mills, I  
22 will turn back to the panel questions, these are the  
23 ones I referred to earlier might sound stilted as I  
24 read them off.

25 In Mr. Elder's presentation the other

1 morning, page 3 top panel there is a list of main  
2 components of the job. And, I note that a couple of  
3 construction projects seem to be orphans, but you may  
4 be able to correct me. The proposed AC connector  
5 line, and the construction camp power line don't seem  
6 to be included as a major component of either the  
7 converter station construction, or the transmission  
8 line construction. Is there any particular reason  
9 for that?

10 MR. ELDER: Just simply divisions of work.  
11 Those, those packages themselves, are under our  
12 transmission business unit, and Mr. Penner could  
13 speak to those. These are the packages managed by  
14 our business unit. So.

15 MR. PENNER: I build, I look after the  
16 construction of the transmission. And I can answer  
17 any questions with regards to the collector, or the  
18 construction power line.

19 THE CHAIRMAN: At this point we are  
20 concerned, about why it wasn't included in either of  
21 these construction presentations.

22 MR. ELDER: We are a two-headed monster.

23 MR. PENNER: I apologize. The construction  
24 power line, is somewhere in the order of 28 or 30  
25 kilometers long, in comparison to the larger Bipole.

1 All of the clearing, and the construction methods  
2 would be very similar.

3 THE CHAIRMAN: Okay, thank you. Switching  
4 to northern construction, and I guess it is just the  
5 season right now, is about a three to four-month  
6 season for northern construction?

7 MR. PENNER: That is typically. Last  
8 winter was much, much shorter.

9 THE CHAIRMAN: Yeah. If winters, we  
10 would all love, maybe not all of us, maybe you  
11 wouldn't, but most of us would like to have another  
12 winter like last year.

13 MR. PENNER: Not me.

14 THE CHAIRMAN: Perhaps if we could isolate  
15 a colder winter to where you need to build, the rest  
16 of us could enjoy balmier winters. That leads me, if  
17 there is a continuation of balmier winters, there is  
18 no doubt that climate is changing, and the climate  
19 seems to be warming up, albeit slowly, but still  
20 warming up. What would Hydro do, if the seasons  
21 become on a regular basis only two and a half, to  
22 three months long? Are there other ways that you  
23 might go about carrying out your construction?

24 MR. ELDER: For the converter station  
25 portion, it would have some scheduling impacts, not

1 as much, but on the, on the transmission side for  
2 this project, I think it would impact the schedule  
3 significantly.

4 THE CHAIRMAN: I am more concerned with the  
5 transmission side where would certainly come into  
6 effect, if the land doesn't free freeze.

7 MR. PENNER: We are certainly very  
8 concerned about weather conditions impacting project  
9 schedule, and even in summer conditions the  
10 construction of the AC switchyard at Riel, in the  
11 first year, we had -- if you can remember back in  
12 2009 was one of the wettest seasons on record, we had  
13 a contractor who was placing clay on the site. And  
14 he could work six days, he had six full days of work  
15 between July, and August. So, it, is seriously  
16 impacted the speed at which we could do our work.

17 THE CHAIRMAN: Could you use timber mats,  
18 or -- is there kind of material that geo-technical  
19 cloth, something or other, that you could put down,  
20 would you consider doing that?

21 MR. PENNER: What really happens, is the  
22 first places to go, are some of the smaller stream  
23 crossings, as things start to thaw out. And we have  
24 to follow the DFO operating statement, and, so we  
25 don't want to put any debris in the water. And, so,

1 we can't -- so, those are typically the places, and,  
2 it is typically a few places that will start to get  
3 too deeply rutted, and for the most part we could  
4 access most of the line for an extra week or two, but  
5 that becomes a bit of a problem with doing that.

6           And we have done places where we have  
7 helped pack snow down, like the more snow we get the  
8 better off it is for us. The snow cover keeps the  
9 sun off the right of way. We do things like  
10 positioning the right of way roadway, so, that it is  
11 in the shade of the trees, along the edge of the  
12 right of way. There are a number of mitigating  
13 factors we try so we can work as long as we can.

14           THE CHAIRMAN: I think the DFO  
15 regulations would allow construction of culvert  
16 bridges, or other kinds of bridges, would you  
17 consider that, or would that be too expensive.

18           MR. PENNER: We would consider those types  
19 of things as well, yes.

20           THE CHAIRMAN: You have also talked, you  
21 talked a bit about access trails, and you said that  
22 you have identified about 50 useful access points  
23 right now. You also noted that you would, I think  
24 you said you would need an access trail, about every  
25 30 to 40 kilometers. Have you ever thought of just

1 having limited access trails, and just running up and  
2 down the transmission line?

3 MR. PENNER: That, it becomes, an issue for  
4 travel along the transmission line. The, the travel  
5 distance, and the travel time it takes to get along a  
6 transmission, typically, you can travel ten to 15  
7 kilometers an hour down a transmission line. And  
8 once you are out 40, or 50 kilometers, each day, to  
9 get to the next clearing site you are driving an hour  
10 and a half to two hours.

11 And we talked about winter construction.  
12 We typically, the guys will get up, and gals, will  
13 get up well before sunrise have their breakfast, and  
14 start to travel in non-daylight hours to get to the  
15 construction site because of where their camp is  
16 located and then begin work once day light appears,  
17 and work to sunset, which is three o'clock in the  
18 afternoon. And then drive back. So, the driving  
19 time becomes, a real issue around only having one or  
20 two access points.

21 THE CHAIRMAN: I think you also said as far  
22 as identifying other access points you wouldn't be  
23 able to do that, until you have identified the  
24 centerline of the right of way; is that correct?

25 MR. PENNER: It typically, as we move

1 along, there may be efficiencies to, we may run into  
2 obstacles, or environmentally sensitive zones, or  
3 large cliffs, and hilly terrain where it is just not,  
4 it is just not practical to access that, and we  
5 don't, it is very tough to know, until you have kind  
6 of ground truthed it, in fact, when we make bypass  
7 trails, that is typically what is is done. You get  
8 to a site, you can't get your equipment in the right  
9 of way over the hill, and typically someone will walk  
10 the area to find the best route to get the equipment  
11 around, and through. And that is typically how that  
12 kind of work is done. It is very difficult to do  
13 that work from topographical maps the detail is just  
14 not there.

15 THE CHAIRMAN: Pages 12, and 13 of your  
16 presentation, you show a tower assembly, and tower  
17 erection, and foundations. Do you have any idea  
18 where that was?

19 MR. PENNER: Can you bring that slide up?  
20 That picture?

21 THE CHAIRMAN: It is, it would be probably  
22 slide 23, 24. They are self supporting towers.

23 MR. PENNER: Yes. That is actually,  
24 that -- back up, that picture right there we just  
25 completed that, it was this spring, and there is,



1 that is a transmission line that goes between our new  
2 Transcona East station, and Transcona Day Street  
3 station, so that tower is located on the Floodway  
4 right of way.

5 THE CHAIRMAN: It is just the edge of the  
6 city.

7 MR. PENNER: Yes, there is another, that  
8 photo, that was taken earlier this spring, it looks  
9 like it is April 17. And, that, is near our Brandon  
10 GS that was for a new line constructed there.

11 THE CHAIRMAN: Okay. Now we noted sort  
12 of some differences in the different elements, or  
13 stages in northern, and southern construction. In  
14 southern construction, you just listed three stages,  
15 foundation, towers, conductor. But, in the north,  
16 there is also off corridor, and right of way  
17 temporary access, temporary water course crossings,  
18 and clearing. Is there no clearing, or water course  
19 crossings that you need to deal with in the south.

20 MR. PENNER: Certainly we will be crossing  
21 a number of rivers, there will be some selected  
22 clearing, as we cross those rivers, or go through  
23 zones. What I tried to do was give a broad overview  
24 of the two construction methods, and in the south,  
25 the, what I listed there, as the three things that

1 are typically the main components, are the main  
2 components, and in the north, it, really is, a large  
3 clearing operation, before the construction can  
4 begin. And that is why, I listed the construction  
5 kind of as one item. The construction of the  
6 foundations, and anchors, and towers.

7 THE CHAIRMAN: I think somewhere in EIS you  
8 talk about just fording streams, will you be doing  
9 that very often, fording streams? Can you even do  
10 that, under DFO regulations.

11 MR. PENNER: In the north, we would --  
12 well, we would cross frozen extremes.

13 THE CHAIRMAN: Frozen, yes.

14 MR. PENNER: I don't think in the south we  
15 will have, unless it is a femoral stream, that is a  
16 dry stream bed possibly, but no. The access is too  
17 good, that we shouldn't have an issue with that.

18 THE CHAIRMAN: That brings me to the next  
19 question, then, will there be need for any access  
20 trails in the southern, or central sections of the  
21 line?

22 MR. PENNER: One moment. I just wanted  
23 to, I had to confirm with my colleague. Very, I  
24 would say, it would be very insignificant, very minor  
25 need to access trails. Without reviewing carefully

1 all of the locations of the river crossings, and,  
2 there are, we just did a crossing up near Roblin,  
3 where we repaired some towers, and, we needed a small  
4 trail down to the tower there. That was already  
5 existing, that we had to reopen up. But, so, it  
6 would be very limited types of trails. And, we  
7 have, certainly, kind of canvassed the entire line,  
8 and, looked at where the access is, and, it is  
9 typically right off of, off of the mile roads or any  
10 other developed features.

11 THE CHAIRMAN: In, in the EIS, it states  
12 that approximately 3355 hectares, of upland forest  
13 vegetation will be cleared along the corridor. Do  
14 you know how much of that would be in the central,  
15 and southern sections?

16 MR. PENNER: Not off the top of my head.

17 THE CHAIRMAN: Would it be difficult to  
18 get?

19 MR. PENNER: Let me take it as an  
20 undertaking and see what we can do for you. I know  
21 in the southern sections it is going to be very  
22 limited. It would just be in river crossings. In  
23 the central sections we do have areas we have areas  
24 designated winter only, and certainly areas that need  
25 to be cleared, as Pine Creek has referenced, near

1 their area, there are certainly some clearing, I will  
2 take that back, if that is is okay.

3 THE CHAIRMAN: Sure. And ballpark  
4 figures, would be sufficient.

5 MR. PENNER: Okay.

6 THE CHAIRMAN: I think this is probably my  
7 last question. But, you also, in the EIS, you refer  
8 to 21.24 hectares of registered wood lots which will  
9 be cleared. Are there any nonregistered wood lots,  
10 that will also be cleared, or that you are aware of?

11 MR. PENNER: One moment please. At this  
12 point we don't have an answer to that question.  
13 Whether there are any nonregistered wood lots, we  
14 think that possibly, John will have, has that  
15 inventoried, and we could look that up, if you would  
16 like.

17 THE CHAIRMAN: Sure, that would be  
18 helpful.

19 MR. PENNER: Okay.

20 THE CHAIRMAN: Thank you, now, are there  
21 any members of the public, who have questions of  
22 Manitoba Hydro on this issue? Strictly related to  
23 the construction of the converter stations, or the  
24 transmission line? No?

25 Well, I guess that brings us, just about to

1 the end of week one. When we reconvene, we will not  
2 be reconvening in Winnipeg for about three and a half  
3 weeks. When we reconvene, we will have brief  
4 periods, basically, just Mr. Madden, and perhaps the  
5 panel some examination on aboriginal engagement, and,  
6 on construction. After that, we will turn to new  
7 presentations by Manitoba Hydro.

8 Next week we are in Gillam as most of you  
9 know, and I suspect we won't see have many of you at  
10 all. Mr. Meronek?

11 MR. MERONEK: Thank you, sir, I was just  
12 looking ahead, to the schedule. And commencing on  
13 October 29, there is a litany of presentations, by  
14 Manitoba Hydro, and, on October 30th, there is a, a  
15 beginning of question of Manitoba Hydro panels, but,  
16 some of the panels, have not been articulated here.  
17 There is one panel Caribou and Moose, on the 31, I am  
18 assuming that cross-examination on that panel will  
19 take place that day. I am just wondering if there  
20 is, if we could have a more complete list of when  
21 these panels will be cross-examined in turn, like we  
22 have for the first week?

23 THE CHAIRMAN: I can't give you an answer  
24 to that right now, but between -- I will consult  
25 with the Commission Secretary, and we will get the

1 information to you as soon as we can.

2 MR. MERONEK: Appreciate that, thank you.

3 THE CHAIRMAN: And to everybody else of  
4 course. Ms Mayor?

5 MS MAYOR: Mr. Sargeant we do have two  
6 remaining undertakings, two additional undertakings,  
7 which we can answer today. They were given by Mr.  
8 Penner, and he has got that information in front of  
9 him, perhaps we can take care of those two  
10 undertakings at this time.

11 THE CHAIRMAN: Good. Thank you, Mr.  
12 Penner.

13 MR. PENNER: For our record, we have  
14 Undertaking No. 4, from October 3rd, the question was  
15 How much will new footprint take out of Crown lands  
16 that can be used by aboriginals for harvesting, et  
17 cetera, both kilometers, and square kilometers.  
18 Approximately 910 kilometers, or 60 square kilometers  
19 is the footprint required on crown lands for Bipole  
20 III as Manitoba Hydro's preference is to obtain land  
21 rights on Crown lands by way of easements, there are  
22 no conditions in the easement that would prohibit  
23 aboriginal harvesting, therefore these lands  
24 potentially, would be available for aboriginal  
25 harvesting, with the exception of the construction

1 season in the specific areas.

2 THE CHAIRMAN: Thank you.

3 MR. PENNER: Undertaking No. 5, from  
4 October 3. What is the difference in cost of  
5 acquiring Crown land versus private land. Manitoba  
6 Hydro's preference to obtain land rights by way of  
7 easement. Easement for Crown lands, are 25 percent  
8 of market value based on a fee structure established  
9 by the Crown Lands Act.

10 Private lands are at 150 percent of market  
11 value for Bipole III.

12 THE CHAIRMAN: Thank you. Any other  
13 housekeeping matters, Manitoba Hydro? Commission  
14 secretary.

15 MS JOHNSON: Yes, this is just to inform  
16 the room that Pine Creek First Nation has supplied  
17 the report to Manitoba Hydro for Mr. Dyck.

18 THE CHAIRMAN: I am sorry, I didn't.

19 MS JOHNSON: That the report that Mr. Mills  
20 was referring to this morning, he has supplied it to  
21 Mr. Dyck.

22 THE CHAIRMAN: Thank you. That brings us  
23 to the end of Week One. We still only have seven  
24 more weeks of this. It will be fun.

25 See many of you, or some of you next week,

1 in Gillam, and most of you, we will see again on the  
2 29th of October. So Happy Thanksgiving to everybody,  
3 have a good weekend.

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(HEARING ADJOURNED)

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