

MANITOBA CLEAN ENVIRONMENT COMMISSION

MANITOBA-MINNESOTA TRANSMISSION PROJECT

VOLUME 4

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THURSDAY, MAY 11, 2017

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NO UNDERTAKINGS

1 THURSDAY, MAY 11, 2017

2 UPON COMMENCING AT 9:30 A.M.

3

4 THE CHAIRMAN: All right. Good  
5 morning, everyone. Welcome back to the CEC  
6 hearings into to the Manitoba-Minnesota  
7 Transmission Project. And we're going to begin  
8 where we left off yesterday with questioning of  
9 the routing panel by Mr. Toyne. Go ahead.

10 MR. TOYNE: All right. Thank you,  
11 Mr. Chair. I hope to be no more than about  
12 another hour with my questions. But as my lawyer  
13 colleagues on the other side of the room can  
14 attest, my ability to predict how long my  
15 questions will take has not been particularly good  
16 so far, so I'll do my best. But if I have  
17 underestimated it, again, I do apologize.

18 So there's really two areas, two broad  
19 areas that I'd like to cover today. Move into the  
20 preference determination aspect of the model, I've  
21 got a number of questions in there. And then a  
22 series of questions that focus on what happened  
23 during Round 2. So if we could talk for a couple  
24 of minutes more about the Preference Determination  
25 Model. To start off, I have more conceptually, so

1 I think these questions might be better directed  
2 towards Mr. Glasgow, and then we'll get into some  
3 of the detail as to how it played out.

4 So, Mr. Glasgow, as I understand it,  
5 the criteria and the weightings that are assigned  
6 to those criteria in the Preference Determination  
7 Model, they'll have a fairly significant impact on  
8 which route is ultimately selected by this  
9 methodology.

10 MR. GLASGOW: That's correct.

11 MR. TOYNE: And again, just at the  
12 conceptual level, would you agree with me that the  
13 individuals that are selecting those criteria and  
14 assigning weights to them, that that should be a  
15 diverse multidisciplinary group of people?

16 MR. GLASGOW: I think the people that  
17 work the EPRI methodology, it's up to each project  
18 proponent to decide who best can represent their  
19 corporate values.

20 MR. TOYNE: Right. So what I take  
21 from that is, if GTC is using this model for a  
22 project, they'll have a particular way of setting  
23 these criteria and assigning the weights, and that  
24 might be a little bit different from say the way  
25 Manitoba Hydro will do it?

1 MR. GLASGOW: That's correct. The  
2 methodology does not prescribe precise positions  
3 within a company that should set those values.  
4 That's left up to the judgment of each proponent.

5 MR. TOYNE: Would it typically be  
6 people who are in more senior management or  
7 executive type positions that would be setting the  
8 criteria and assigning the weights, at least in  
9 your experience?

10 MR. GLASGOW: Yeah, I think it's, you  
11 know, up to each organization that uses the  
12 methodology to determine who is in the best  
13 position to determine their corporate values. So  
14 I have seen it done by a variety of different  
15 levels of staff.

16 MR. TOYNE: All right. And just to go  
17 back to it, perhaps with a little bit more detail,  
18 would you agree with me that regardless of the  
19 positions of the individuals that are part of the  
20 team that's selecting the criteria and setting the  
21 weights, that it would be important conceptually  
22 that those individuals come from diverse and  
23 multidisciplinary backgrounds?

24 MR. GLASGOW: Well, the entire  
25 methodology includes experts from, you know, a

1 variety of different backgrounds. And so this  
2 model is meant to basically decide between a very  
3 few alternatives selected for route, and sets a  
4 pretty high level decision. And so I think it's  
5 appropriate for executives to participate in  
6 assigning corporate values.

7 MR. TOYNE: All right. So maybe we'll  
8 get down into a little bit more detail. So I  
9 don't know if you were here when we went through  
10 it, but I have no doubt you're aware. The team at  
11 Manitoba Hydro that selected these criteria and  
12 set the weights, they were four senior engineers  
13 in Manitoba Hydro. You are aware of that?

14 MR. GLASGOW: Okay.

15 MR. TOYNE: Would you agree with me  
16 that having four individuals from effectively the  
17 same disciplinary background, setting the criteria  
18 and attributing the weights to them, is not ideal  
19 from a conceptual perspective?

20 MR. GLASGOW: No, I don't agree with  
21 you.

22 MR. TOYNE: Okay. Can you explain why  
23 having four people with effectively the same  
24 disciplinary background would be appropriate to  
25 set the weights and select the criteria?

1 MR. GLASGOW: No.

2 MS. BRATLAND: If I could just build  
3 on Mr. Glasgow's response?

4 MR. TOYNE: Sure.

5 MS. BRATLAND: So from Manitoba  
6 Hydro's perspective, the management team that  
7 assigned the weights for this model, as the senior  
8 managers and the transmission business unit, they  
9 have extensive experience in planning, design,  
10 construction, operation and maintenance of  
11 transmission systems, and as such were deemed best  
12 equipped to make decisions at this level and  
13 inform the development of the criteria of that  
14 model.

15 MR. TOYNE: So I'll put out a  
16 hypothetical to you. You may have been told not  
17 to answer hypotheticals, or they may object, but  
18 let me get it out and we'll see what happens.

19 So as a hypothetical, would you agree  
20 with me that if the team had consisted of, say  
21 three of those four engineers and, for example,  
22 Mr. Joyal, I'll pick him today because I kind of  
23 picked on him the other day, if he was one of the  
24 four, would you agree with me that the criteria  
25 and the weights assigned to them would have been

1 more appropriate than the criteria and weights  
2 assigned to them by the four engineers that  
3 actually made that decision?

4 MS. BRATLAND: No, I wouldn't agree.  
5 I think the appropriate people were in the room to  
6 set the criteria. And the management team was  
7 aware of the process that would be happening  
8 before those criteria would apply, were aware of  
9 the multidisciplinary nature of the teams that  
10 would be informing decisions up to that point, and  
11 the appropriate level of knowledge and expertise  
12 and experience was in the room when those  
13 decisions were made.

14 MR. TOYNE: Another conceptual  
15 question, at least I think it's a conceptual  
16 question, if you do have a group that's neither  
17 diverse nor multidisciplinary making this decision  
18 like what we have here, should that group be  
19 seeking outside input from other aspects of,  
20 whether it's Manitoba Hydro, or GTC, or one of the  
21 other requests that you have worked with, from say  
22 some of the other departments within the utility?

23 MR. GLASGOW: It's up to each project  
24 proponent, each user of the methodology to  
25 determine how to best express their corporate

1 values. It's not necessarily recommended to get  
2 input into the expert judgment phase or the  
3 preference determination phase.

4 MS. BRATLAND: If I could, sorry, I  
5 just wanted to build on Mr. Glasgow's answer  
6 again. I want to just point back to something I  
7 said in the presentation, and note that when the  
8 Preference Determination Model is applied in a  
9 decision-making environment in the route  
10 evaluation workshop, it is very much within a  
11 multidisciplinary team, with all of the discipline  
12 specialists and teams representing and applying  
13 the model, and bringing all of the knowledge and  
14 the feedback that they have received through the  
15 public engagement processes and the First  
16 Nation-Metis engagement processes to those  
17 decisions.

18 MR. TOYNE: So, Mr. Glasgow, in your  
19 experience with the use of this EPRI-GTC model, do  
20 utilities typically rely on a team that's neither  
21 diverse nor multidisciplinary to set these  
22 criteria and weights, and not seek any additional  
23 input from within their organization? Maybe a  
24 different way to ask it is, is the way that  
25 Manitoba Hydro set these criteria and weights, is

1 that the way it's typically done with this model?

2 MR. GLASGOW: Yes. Like I said, it's  
3 up to each utility that uses this model to  
4 determine the best method to represent their  
5 corporate values. And so I think it's a great  
6 idea to have management participate in identifying  
7 their corporate values or the criteria, the  
8 highest level criteria that's used in the  
9 Preference Determination Model. As Ms. Bratland  
10 mentioned, there are several other opportunities  
11 for multidisciplinary input throughout the  
12 process, especially in the application. So the  
13 management team just identified the criteria and  
14 the relative weight of this criteria, but it was a  
15 very multi-disciplined team that actually applied  
16 that model to select the preferred route.

17 MR. TOYNE: All right. So if the  
18 Commission sees this particular aspect of the  
19 routing process as flawed, would this be a flaw in  
20 the model or a flaw in Manitoba Hydro's  
21 application of the model?

22 MS. BRATLAND: I don't think our panel  
23 is in the position to comment on whether the  
24 Commission will see it as flawed.

25 MR. TOYNE: If we could pull up slide

1 21, that was on the currently blank screen. This  
2 would be the one that has the actual criteria and  
3 weightings that were set by the four engineers?

4 MS. BRATLAND: Just one second. We'll  
5 pull that up for you.

6 MR. TOYNE: Sure. And for those  
7 following along in the EIS, it's Table 5-9.

8 So, again this is I think a conceptual  
9 question directed more towards Mr. Glasgow than  
10 the other witnesses on the panel.

11 Sir, as I see this, cost schedule  
12 risks and system reliability all fall within the  
13 engineering perspective and they represent 55  
14 per cent of the weights in the model. And I'm  
15 going to suggest to you that that's a reflection  
16 of the fact that the team that selected these  
17 criteria and set the weights was biased in favour  
18 of the engineering perspective. So conceptually,  
19 does that make sense to you?

20 MR. GLASGOW: No. I think cost is not  
21 just a function of engineering. Obviously cost is  
22 there by all the ratepayers, and so it's certainly  
23 a community issue as well as an engineering issue.

24 MR. TOYNE: And conceptually, would  
25 you agree with me that if the team at Manitoba

1 Hydro that selected these criteria and assigned  
2 weights to them was more diverse and  
3 multidisciplinary than the four engineers that  
4 actually did it, that the criteria and weights  
5 here could look quite different?

6 MR. GLASGOW: That's a hypothetical  
7 question.

8 MR. TOYNE: Yes, sorry.

9 MR. GLASGOW: If there's a different  
10 set of people --

11 MR. TOYNE: Yes.

12 MR. GLASGOW: -- that adopt this  
13 model, would it appear differently?

14 MR. TOYNE: Yes.

15 MR. GLASGOW: As I stated before,  
16 these values represent the values of Manitoba  
17 Hydro, and I believe it's up to Manitoba Hydro to  
18 determine who gives input into this.

19 MR. TOYNE: And would you agree with  
20 me that this model could still work if you had a  
21 different list of criteria with a different list  
22 of percentages attributed to them? Like this  
23 isn't the only way that the model could work with  
24 these criteria and these percentages?

25 MR. GLASGOW: Well, this model is

1 intended to represent the corporate values of the  
2 project proponent. And so if it was not  
3 calibrated with the corporate values of the  
4 project proponent, I don't think it would work as  
5 intended. So, no, I don't agree with you.

6 MR. TOYNE: All right. And you have  
7 used the phrase corporate values a couple of  
8 times. So your understanding is then, from the  
9 model's perspective, this would be Manitoba  
10 Hydro's corporate values?

11 MR. GLASGOW: I understand that these  
12 are the highest level criteria and the relative  
13 weights that were used in the project.

14 MR. TOYNE: Another hypothetical, if  
15 the percentages attributed to cost and community,  
16 for example, were reversed, so that cost was only  
17 worth 30 per cent and community was worth 40  
18 per cent, would that still be a reasonable set of  
19 criteria and weightings to use for the Preference  
20 Determination Model in your experience?

21 MR. GLASGOW: I think if it's not the  
22 values that Manitoba Hydro wants in this model, it  
23 would not be reasonable.

24 MR. TOYNE: In your experience of the  
25 other utilities that have used this model, have

1 they used different lists of criteria and  
2 different percentage weightings for the criteria?

3 MR. GLASGOW: Yeah, I think this  
4 varies from project proponent to proponent. But  
5 just as, you know, companies' culture and  
6 corporate values vary, one of the strengths of  
7 this methodology is it's flexible and it's allowed  
8 to be calibrated and implemented in different  
9 locations with different regulatory, social and  
10 physical environments. And so this is one of the  
11 ways that this model is calibrated to work in  
12 Manitoba based on the project proponent's  
13 considerations. So I would not prescribe to use  
14 the same values set by say a company in Georgia in  
15 Manitoba, or vice versa.

16 MR. TOYNE: All right. So if we could  
17 turn now to some other criteria specifically, so I  
18 suspect most of these questions will be directed  
19 towards the other two panelists.

20 If we could talk about the way in  
21 which delay is factored into these criteria. So  
22 as I understand it, delay is factored into two of  
23 the criteria. We've got delay that's considered  
24 in schedule risks, and then there's also aspects  
25 of delay that are considered in the community

1 category; correct?

2 MS. BRATLAND: No, that's incorrect.

3 As Mr. Joyal indicated, the potential schedule  
4 risks is the consideration of delay.

5 MR. TOYNE: All right. So I had spent  
6 some time asking the panel on Tuesday some  
7 questions about the very extensive discussion of  
8 delay that took -- that's reflected in the meeting  
9 notes from the community breakout session. So  
10 those meeting notes from the community breakout  
11 session don't accurately reflect what was  
12 discussed at that breakout session? Is that what  
13 you're saying?

14 MS. BRATLAND: No. I'm saying in the  
15 Preference Determination Model, when the criteria  
16 are applied, the consideration of delay occurs  
17 under the criteria of schedule risk. The  
18 conversations that are held within breakout  
19 sessions, each group would discuss any knowledge  
20 they would have of anything that could create a  
21 delay, so that when the group came together to  
22 discuss schedule risks, because that was a group  
23 determination on that weighting, that that could  
24 be brought forward and would have been fully  
25 considered.

1 MR. TOYNE: All right. Maybe just  
2 quickly going back to Mr. Glasgow.

3 Sir, if you do have something like  
4 delay as one of the factors that's going to be  
5 considered in the model, you would agree with me  
6 that it shouldn't be considered in multiple  
7 criteria; right? Because otherwise it's being  
8 double counted, or triple or quadruple counted?

9 MR. GLASGOW: I think the term delay  
10 probably applies to a lengthened schedule. And so  
11 I think schedule risk is a place in the model  
12 where that is addressed.

13 MR. TOYNE: All right. So, to the  
14 extent that a risk to schedule is going to be  
15 considered, it should be confined to that criteria  
16 and it shouldn't be considered for a second or a  
17 third time in other criteria?

18 MR. GLASGOW: I think it's up to the  
19 users exactly what they consider when they use  
20 this model.

21 MR. TOYNE: So then the model permits  
22 certain criteria to be double or triple counted  
23 here? Maybe not criteria because criteria is  
24 actually being used in a specific sense here. So  
25 then the model that we're talking about allows

1 certain factors to be double or triple counted?

2 MS. BRATLAND: The schedule risk  
3 consideration is the criteria that considered  
4 delays in schedule. As I noted, there's a number  
5 of considerations that go into that schedule risk,  
6 a number of considerations that can have crossover  
7 with other considerations from different elements  
8 within the model. But the consideration against  
9 that criteria, delay was included in that  
10 criteria. It was discussed by all of the groups.  
11 And the reason it was discussed by all of the  
12 groups at the end of the day is because elements  
13 from the discussion from different components,  
14 like the feedback from communities, the amount of  
15 private and Crown land and approvals associated,  
16 the amount of forested land that may have timing  
17 restrictions was important to understand fully to  
18 be able to contextualize the potential schedule  
19 risk.

20 MR. TOYNE: All right. And then as I  
21 understand it, there are two types of schedule  
22 risk that are included there, what I'll call  
23 pre-licensing schedule risk and post-licensing  
24 schedule risk. Is that a fair way to look at the  
25 different factors that go into that criteria?

1 MS. BRATLAND: Schedule risk included  
2 the consideration of the need for additional  
3 approvals, the seasonality of construction, the  
4 overall level of complication expected that could  
5 result in delays.

6 MR. TOYNE: Right. Thank you for  
7 reading from the slide, but my question was a  
8 little bit different. Would you agree with me  
9 that schedule risk is taking into account both  
10 pre-licensing and post-licensing factors in  
11 consideration?

12 MS. BRATLAND: Yes, it does consider  
13 both.

14 MR. TOYNE: Okay. And the  
15 pre-licensing schedule risk, that would include  
16 any amount of time that might be required say for  
17 the Crown consultation process?

18 MS. BRATLAND: Sorry, could you repeat  
19 the question?

20 MR. TOYNE: So, Crown consultation and  
21 the time that it takes to complete that process,  
22 that would be a pre-licensing schedule risk?

23 MS. BRATLAND: Yes.

24 MR. TOYNE: Okay. And that would be  
25 because, until that constitutional process is

1 complete, the Provincial Government is actually  
2 unable to grant Manitoba Hydro the licence that  
3 it's requesting?

4 MR. MATTHEWSON: That's correct.

5 MR. TOYNE: Now, in SSC IR 79,  
6 Manitoba Hydro indicated that expropriation is not  
7 a licensing risk. So it strikes me, if we're  
8 using this pre and post-licensing dichotomy, then  
9 any delays that might arise say from the  
10 expropriation process would be more appropriately  
11 considered as post-licensing risk to schedule. Is  
12 that a fair way to look at it?

13 MS. BRATLAND: I'm just going to have  
14 to look at the IR.

15 MR. TOYNE: Sure.

16 MS. BRATLAND: SSC IR 079, in the  
17 response it says that:

18 No, Manitoba Hydro does not consider  
19 the expropriation process a licensing  
20 risk, as an Environment Act licence  
21 can be issued before all properties  
22 are acquired for the project."

23 MR. TOYNE: Right. So then if we're  
24 using this pre and post-licensing dichotomy,  
25 expropriation, to the extent it's a schedule risk,

1 would fall into the post-licensing category?

2 MS. BRATLAND: When we considered  
3 schedule risk, we compared different routes and  
4 the different elements of those routes and looked  
5 for the things that were different between them.  
6 So the group didn't really categorize post and  
7 pre-licensing. I understand that it's a way that  
8 you can look at that. As this IR indicates and as  
9 the group considered, the understanding was that  
10 we do need a Crown approval before we can gain an  
11 Environment Act licence, and construction cannot  
12 begin until we have that licence. With private  
13 land acquisition, construction on lands that we  
14 already have rights to can begin without the  
15 complete acquisition of all private lands on the  
16 project. That was the nature of that  
17 consideration.

18 MR. TOYNE: Now, if you can pull up  
19 the next Coalition IR, which is number 80?

20 MS. BRATLAND: We've got it here.

21 MR. TOYNE: All right. That's the one  
22 that indicates that the methodology does not take  
23 expropriation objections and inquiries into  
24 account, either directly or indirectly. Can I ask  
25 why that is?

1 MS. BRATLAND: Manitoba Hydro, when  
2 making determinations on schedule risk and the  
3 potential for expropriation on private lands  
4 reflected on past experience. We reflected on the  
5 experience with Bipole III, understood that  
6 process, and considered that this project may have  
7 the same experience.

8 MR. TOYNE: And you used this phrase  
9 yesterday "in Manitoba Hydro's experience." And I  
10 just want to drill down on that for a minute.  
11 When you say in Manitoba Hydro's experience, what  
12 you mean is that landowners aren't able to  
13 exercise their ability to challenge expropriations  
14 because the Provincial Government takes away their  
15 ability do that. Is that what you mean when you  
16 say Manitoba Hydro's experience, that you can  
17 expropriate without landowners being able to  
18 object?

19 MS. BRATLAND: Could I ask you to  
20 repeat the question? I was conferring so long  
21 with my colleagues, I want to make sure I respond  
22 accurately.

23 MR. TOYNE: Sure, and I'll try to be a  
24 little bit clearer when I ask it. You referred to  
25 Manitoba Hydro's experience and you pointed to

1 Bipole III in particular. And I just want to make  
2 sure when you are saying in Manitoba Hydro's  
3 experience, what you're talking about is Manitoba  
4 Hydro being able to expropriate private lands  
5 without the owners of those lands being able to  
6 object to the expropriation? That's what you mean  
7 by Manitoba Hydro's experience?

8 MS. BRATLAND: I'm going to mostly  
9 defer your question to the panel that's coming up,  
10 because we do have some Manitoba Hydro staff that  
11 can speak more specifically to that. But I do  
12 just want to point out that the experience on  
13 Bipole, there was a hearing, there was  
14 opportunities for private landowners to bring  
15 their concerns forward, and the expropriation  
16 process itself is an opportunity for those  
17 concerns to be brought forward. But I can't  
18 really go much deeper than that because I'm not an  
19 expert on that element.

20 MR. TOYNE: Right. So what I'm trying  
21 to drill down to is, if Manitoba Hydro's  
22 experience drove how the schedule risks are taken  
23 into account, and if Manitoba Hydro's experience  
24 is that landowners don't have the opportunity to  
25 object to expropriations, then I'm going to

1 suggest to you that if landowners do have the  
2 opportunity to object to expropriations, you have  
3 wildly underestimated the schedule risk that going  
4 over private lands represents.

5 MS. BRATLAND: I'm sorry, was there a  
6 question?

7 MR. TOYNE: Do you agree?

8 MS. BRATLAND: No, I don't agree. The  
9 reason -- not the reason, the way that we consider  
10 schedule risk is always in a relative  
11 consideration. And we had extensive discussions  
12 around private land acquisition and potential  
13 delays, also around Crown land and the potential  
14 for Crown land consultation processes to be longer  
15 and more complex with the amount of Crown land and  
16 the number of interested parties that could have  
17 interest in that land. And those two different  
18 processes have different implications for  
19 schedule, and they can have a different length of  
20 an implication for a risk to schedule. So we  
21 tried our best, reflecting on our past knowledge  
22 and what we can understand about the region, to  
23 bring those two concepts to bear in a comparative  
24 fashion and consider them both. So I wouldn't say  
25 they were wildly underestimated, I would say they

1 were carefully considered, and considered in a  
2 relative framework.

3 MR. TOYNE: So just to go back to that  
4 pre and post-licensing dichotomy I was using  
5 earlier. One of the most important post-licensing  
6 approvals, at least as I understand it, that  
7 Manitoba Hydro needs is the Provincial  
8 Government's agreement to take away the rights of  
9 landowners to object to expropriations. Because  
10 without that approval, the project can't proceed.  
11 Do you agree?

12 MS. BRATLAND: I'm going to have to  
13 defer that one to the next panel, as I don't have  
14 that level of expertise on that topic.

15 MR. TOYNE: And I'm going to suggest  
16 to you that -- and I don't mean this in the  
17 critical sense that it might sound -- I'm going to  
18 suggest to you that the reason you are unable to  
19 address that question is because Manitoba Hydro  
20 hasn't actually considered the impact that not  
21 getting that approval from the government will  
22 have on this project. Isn't that right?

23 MS. BRATLAND: Again, I can speak to  
24 what was considered by the team and the  
25 individuals in the discussions. We did consider

1 the land acquisition process, private land  
2 specifically. We also considered the amount of  
3 feedback that we had and the relationships that  
4 were being formed with landowners in terms of  
5 being able to understand, mitigate their concerns.  
6 We have a liaison assigned to every affected  
7 landowner, and discussions are under way regarding  
8 what additional things can be done to mitigate  
9 their concerns.

10 So the other element that was  
11 considered was whether we felt that there would be  
12 a high concern around property acquisition, that  
13 also came into play. And I really just can't go  
14 any deeper on the potential for expropriation  
15 post-approval concerns beyond that.

16 MR. TOYNE: All right. So if I  
17 suggested to you that if the Province doesn't give  
18 Manitoba Hydro the ability to expropriate, while  
19 dispensing with the ability of landowners to  
20 object to those expropriations, that this project  
21 actually won't be complete by 20/20, you have no  
22 way of responding to that suggestion? Or does  
23 Manitoba Hydro have a back-up plan if the Province  
24 doesn't cooperate on the expropriation front?

25 MS. BRATLAND: I'm going to refer to

1 SSC IR 0788, where we indicate:

2 "Manitoba Hydro has not made any such  
3 request as expropriation as a last  
4 resort and would only be recommended  
5 if a voluntary easement agreement  
6 cannot be concluded with impacted  
7 landowners. Discussion with  
8 landowners are ongoing. Any decision  
9 to expropriate would have to be first  
10 approved by the Manitoba Hydroelectric  
11 Board, and subsequent to that, the  
12 Provincial Government."

13 And our team considered this and other  
14 elements in schedule risk.

15 MR. TOYNE: Right. And I appreciate  
16 that the next question I've got might also be  
17 answerable by the next panel. But if the board of  
18 Manitoba Hydro makes that request and the Province  
19 says no, how does that factor into your schedule  
20 risks criteria, or does the project just sort of  
21 stop dead in its tracks?

22 MS. BRATLAND: Again, that's a  
23 hypothetical question that I can't really comment  
24 on, as it's a decision to be taken by another  
25 body.

1 MR. TOYNE: But that's a hypothetical  
2 question that necessarily has to be considered in  
3 that criteria, though?

4 MS. BRATLAND: I believe I answered  
5 your question.

6 MR. TOYNE: Okay. So to go back to  
7 one of the very first questions that I asked,  
8 there was that slide about avoiding effects,  
9 trying to mitigate them, and trying to compensate  
10 for them. So I'm going to suggest to you that for  
11 the purposes of this model, Manitoba Hydro simply  
12 assumed that they would have the ability to  
13 expropriate private lands without landowners being  
14 able to object. Is that true? That your whole  
15 model is based on the assumption that you'll be  
16 able to expropriate without considerable delay?

17 MS. BRATLAND: No, I would disagree  
18 that our whole model is based on that assumption.

19 MR. TOYNE: All right. So then  
20 explain to me how this model takes into account  
21 all of the delays that can arise if the Province  
22 does not take away landowners' rights to object to  
23 expropriations, keeping in mind that SSC IR 80  
24 says that those are factors that aren't taken into  
25 account?

1 MS. BRATLAND: As I indicated in a  
2 previous response, we make best efforts to  
3 consider all of those things that are known to us  
4 that could potentially affect schedule risk and  
5 cause delay. And that would be an element that  
6 would be unknown to us and would be a decision  
7 made by another body at another time. So we make  
8 decisions on what we know and can understand.

9 MR. TOYNE: I'm going to suggest to  
10 you that Manitoba Hydro completely missed that  
11 particular schedule risk. Do you agree or  
12 disagree?

13 MS. BRATLAND: I'm going to say that  
14 we make decisions on what we know, and that's a  
15 decision to be made by another body, and that we  
16 considered private land acquisition, Crown land  
17 acquisition and a lot of other elements in  
18 schedule risk.

19 MR. TOYNE: How many projects has  
20 Manitoba Hydro engaged in over the past -- sorry,  
21 how many transmission line projects that Manitoba  
22 Hydro has done in the past -- what's a good  
23 number -- 20 years, how many of those projects  
24 have not had the Province take away the rights of  
25 landowners to object to expropriations? Do you

1 know?

2 MS. BRATLAND: I'm sorry, I don't know  
3 the answer to that question.

4 MR. TOYNE: If I suggested to you that  
5 Manitoba Hydro's experience has always been that  
6 the Province will take away the rights of  
7 landowners to object to expropriations, would you  
8 agree with that statement?

9 MS. BRATLAND: I cannot comment  
10 because I do not know.

11 MR. TOYNE: If we can just go back to  
12 some conceptual questions about the model, just  
13 very quickly, and I think these might head back  
14 towards Mr. Glasgow. Could you pull up slide  
15 35 -- hang on, on the left side, it's one of the  
16 ones that sets out the scores. Yeah, that's the  
17 one. All right.

18 So Mr. Glasgow, I've got what I hope  
19 is a relatively brief set of conceptual questions  
20 for you.

21 So you'll see that you've got the  
22 natural and the built criteria, and they both have  
23 a weight of 7.5 per cent. And it struck me when I  
24 was looking at this that there's going to be  
25 certain routes that will score very well on the

1 natural criteria and not as well on the built, and  
2 vice versa. And it also struck me that these two  
3 criteria had the potential to cancel one another  
4 out. And I was just wondering, from a conceptual  
5 perspective, if you can explain if, you know, for  
6 example, route TC and route DKT, and to some  
7 extent EEL, if the very different scores they are  
8 receiving on those two criteria are effectively  
9 cancelling one another out for the purposes of  
10 this model?

11 MR. GLASGOW: No, I wouldn't use the  
12 term cancel out.

13 MR. TOYNE: Okay.

14 MR. GLASGOW: It's pretty common for a  
15 routing project to consider built and natural  
16 perspectives. And it's pretty common for them to  
17 be competing perspectives, because usually if you  
18 put the line away from people, it's in more  
19 natural areas. And if you put it closer to  
20 people, it's typically away from natural areas.  
21 So it's not surprising that those values are  
22 competing.

23 So the model just seeks to model  
24 reality, and the reality is there's different  
25 perspectives.

1 MR. TOYNE: Right. So maybe this is  
2 just because I am a layperson looking at this.  
3 But when I take a look at say the scores for TC  
4 and DKT, because they're pretty much the opposite  
5 of one another, it looks to me like they would get  
6 cancelled out in this model, thereby magnifying  
7 the other criteria.

8 MR. GLASGOW: No, I don't think they  
9 are cancelled out. I think basically they are  
10 given their appropriate weight and appropriate  
11 ranking. So that's your term that they are  
12 cancelling out, but it's not my term. I don't  
13 agree with you.

14 MR. TOYNE: Okay. It's not shown on  
15 this particular slide, but the weights are there.  
16 So one of the other things, and maybe this is just  
17 as a layperson -- well, that's why I'm looking at  
18 it this way -- but it strikes me that if you're  
19 using the scores of 1, 2, 3, you can actually be  
20 masking relatively minor differences between the  
21 two routes. Would you agree?

22 MR. GLASGOW: Could you rephrase that  
23 question? What do you mean by masking?

24 MR. TOYNE: So, you know what, maybe  
25 we could use, why don't we use that set of meeting

1 notes that were distributed yesterday? So we've  
2 got the table where SIL is eliminated and the  
3 table where it's revived.

4           So, sir, if you've got a copy of that  
5 there. So we'll just be looking at the cost  
6 criteria. So on, I think this was the table that  
7 Mr. Joyal referred to as the -- was it the  
8 operating table -- we've got cost scores of 1 for  
9 the four routes, and then we've got a score of 2  
10 for SIL. But then if you turn over the page,  
11 you'll see that a different set of scores are  
12 attributed. And in some respects, using just the  
13 1, 2, 3 scoring category, it appears to be masking  
14 to some extent, you know, relatively minor  
15 differences between the routes. Would you agree  
16 with that?

17           MS. BRATLAND: I think I'll take this  
18 question because I did address this yesterday at  
19 the end of my presentation.

20           So in assigning the cost scores  
21 initially in the working session, the engineers  
22 had applied a certain logic and taken the average  
23 cost, and then anything within 5 per cent of  
24 average was given a 1, greater that was given a 2.  
25 And it was determined that this did not accurately

1 reflect the variability between the routes and  
2 overstated it. So that was adjusted to what was  
3 in the second table.

4 MR. TOYNE: Right. So I took your  
5 point how the scoring system doesn't always  
6 accurately reflect the differences between the  
7 routes. But this was a question focused on just  
8 one of these inaccuracies. And that was that  
9 using the scoring system of 1, 2, 3 can mask minor  
10 differences between the routes, as just one of the  
11 many ways in which the 1, 2, 3 system is  
12 inaccurate.

13 MS. BRATLAND: I would like to correct  
14 the premise of one of your statements. We  
15 allocated this costing and very carefully  
16 considered whether the differences between the  
17 routes were appropriately represented by the  
18 scores assigned. So there was much consideration  
19 that went into that, and it was represented in the  
20 most accurate way possible to reflect the  
21 consensus decisions of the team.

22 MR. TOYNE: And I think a question  
23 back towards Mr. Glasgow, but certainly feel free  
24 to let the others answer.

25 By using the 1, 2, 3 scores, using

1 those scores can actually magnify the impact of  
2 relatively minor differences between the routes in  
3 this particular model?

4 MR. GLASGOW: So this model is  
5 typically called Expert Judgment Model, it's  
6 called a Preference Determination Model in this  
7 project. But the reason it's called Expert  
8 Judgment Model is it's meant to be a tool to be  
9 used by experts. And so based on their expert  
10 opinion, the project team ranks the routes  
11 relative to one another based on their judgment.  
12 And so I think the values very accurately  
13 represented the judgment at that time.

14 MR. TOYNE: Not quite the answer to  
15 the question that I asked, but thank you. So just  
16 back to the question that I asked. You would  
17 agree with me that using the scores of 1, 2 and 3  
18 can magnify the impact of relatively minor  
19 differences between the routes? Would you agree?

20 MR. GLASGOW: I disagree.

21 MR. TOYNE: All right. This is  
22 intended to be a conceptual question but I  
23 appreciate what will happen once I ask it.

24 Sir, you agree with me that one of the  
25 ways that the Preference Determination Model can

1 be, I guess toyed with, is that the scores could  
2 be adjusted so that say if a particular preferred  
3 route doesn't quite make it all the way through,  
4 you could redo the scores until it does. Do you  
5 agree or disagree?

6 MR. GLASGOW: I think you're referring  
7 to cost and the two different charts that were  
8 distributed yesterday. You know, we had a lot of  
9 discussion about the ranking for cost in the  
10 routing workshop. I think Maggie explained how,  
11 you know, one team presented a certain set of  
12 rankings, the rest of the group would challenge  
13 its assumptions. And in doing so we discussed how  
14 cost is really, out of all these criteria, a  
15 quantitative, one thing that we really can  
16 describe with numbers. So we used the cost,  
17 project cost estimate to help define the relative  
18 values of the rankings in the second chart.

19 And so that basically was, we felt  
20 like a better way to refine the methodology we  
21 were using to rank costs.

22 MS. BRATLAND: And just to build on  
23 what Mr. Glasgow indicated, I want to reiterate  
24 the fact that in those sessions the objective is  
25 to carefully reflect the relative differences of

1 routes by the assignment of scores. The first  
2 table is a working table. The working table was  
3 challenged by the project team to make sure that  
4 those relative differences were reflected in the  
5 most representative way.

6 MR. TOYNE: I think I had called it  
7 the operating table earlier, I guess I should have  
8 said working table, I'm sorry.

9 But just to go back to my conceptual  
10 question, we'll get into how it actually played  
11 out. But, sir, I'm going to suggest to you that  
12 one of the ways that a utility can get a preferred  
13 route, that's not scoring well in the model,  
14 through to the next round is by changing the  
15 scores that are attributed to it at this stage of  
16 the model. Do you agree or disagree?

17 MR. GLASGOW: The scores, the ranking  
18 in the model -- the model is intended to be used  
19 by experts in the project team based on the  
20 information they have and the relative ranking of  
21 the different routes. And I think that's the best  
22 way to use the model.

23 MR. TOYNE: So this is more of a  
24 conceptual question, I think, but we can use this  
25 as an example. So Route SIL, by the time we get

1 to the working table it's already been eliminated  
2 once. It then gets eliminated a second time, and  
3 then the scores get changed. Conceptually, how  
4 many times should a route that's been eliminated  
5 be revived only to be eliminated again, to be  
6 revived? How many times should a utility bring  
7 forward an eliminated route until it gets to the  
8 next round?

9 MR. GLASGOW: There's no limit on the  
10 number of times utilities should, you know, use  
11 expert judgment. You know, this model is a tool  
12 meant to be used by experts to make a business  
13 decision. It doesn't prescribe exactly how many  
14 times you work through this process. You know,  
15 generally speaking, you try to refine the process  
16 until you reach consensus and you create the best  
17 product you can. And so I would recommend users  
18 of this methodology to do that.

19 MS. BRATLAND: To build on what  
20 Mr. Glasgow has said, I would just like to correct  
21 the premise of your statement. In the end of my  
22 presentation, I believe I explained that Route SIL  
23 was never eliminated. It was screened in with the  
24 logic that I described and was not eliminated  
25 again in that working table. The working table

1 was part of that discussion, and the final table  
2 that reflects the decision at the end of the day  
3 indicates the scoring and the decision. So  
4 Route SIL, using the judgment of the team, using  
5 the preference determination tool, was screened in  
6 because it was a statistically strong route that  
7 represented some important trade-offs in the area  
8 to be evaluated against the rest in that set.

9 MR. TOYNE: So this is a conceptual  
10 question for Mr. Glasgow. Let's say, and I'll use  
11 both sort of phrases just so everybody in the room  
12 is happy. Let's say SIL was eliminated again, or  
13 it wasn't screened forward after the costs scores  
14 were adjusted, given your experience with the  
15 model, what would have been the next step  
16 available to Manitoba Hydro to get SIL through to  
17 the next round? Like would they have changed the  
18 scores for reliability, schedule, community?  
19 Which would have been the one that they should  
20 have changed next, if SIL had not been screened  
21 forward or eliminated at that point?

22 MR. GLASGOW: I don't understand your  
23 question. Is that a hypothetical question?

24 MR. TOYNE: I guess so, yes. So maybe  
25 here's another way to ask it. So if a utility has

1 a preferred route that keeps getting eliminated or  
2 not screened forward, and changing the cost scores  
3 is insufficient to get that preferred route  
4 through to the next round, what other options are  
5 available within the Preference Determination  
6 Model to do that, if any?

7 MR. GLASGOW: I think key point is  
8 there wasn't a preferred route selected until the  
9 end of the workshop. And so this was a working  
10 table that was produced as a part of the workshop.

11 MR. TOYNE: So just to go back to  
12 something that Ms. Bratland confirmed yesterday,  
13 that the engagement panel was unable or unwilling  
14 to confirm, and that it was Ms. Johnson that  
15 suggested that SIL be screened forward or screened  
16 in. Who was the person that suggested that the  
17 cost scores be run a second time after SIL was  
18 eliminated? Was it Ms. Johnson again?

19 MS. BRATLAND: As I indicated in my  
20 presentation, the cost scores were presented to  
21 the project team and the project team had  
22 considerable discussion. I actually don't recall  
23 which individual in the project team room first  
24 challenged that, but it was something that was  
25 shared by the project team, and agreed it needed

1 to be reflected in a different way.

2 MR. TOYNE: Did anyone, to the best of  
3 your recollection, did anyone at this point bring  
4 up the various aspects of risk to schedule that  
5 Hydro wasn't taking into account and suggest that  
6 they should be factored in?

7 MS. BRATLAND: As I noted, risk to  
8 schedule is a group discussion, it's always based  
9 on sharing of various factors and discussion about  
10 those various factors. So that's how that  
11 conversation works, group discussion.

12 MR. TOYNE: So that would be one of  
13 the assumptions that wasn't challenged, that  
14 Manitoba Hydro would be able to expropriate over  
15 landowner objections about delay?

16 MS. BRATLAND: As I indicated, through  
17 those discussions all facets of risk to schedule  
18 that are understood at the time are carefully  
19 examined and shared and challenged and discussed  
20 by all members of the project team.

21 MR. TOYNE: And just to build on that,  
22 so Manitoba Hydro didn't understand that to be a  
23 risk to schedule at the time?

24 MS. BRATLAND: I believe we already  
25 discussed this topic.

1 MR. TOYNE: So we got a little bit  
2 ahead of where I wanted to go. If we could just  
3 back up for a second, and this is a question  
4 that's directed at something that Mr. Matthewson  
5 said yesterday. And I didn't go back and check  
6 the transcript, so I might just be paraphrasing  
7 here.

8 So at one point, sir, when we were  
9 talking about the border crossing decision, the  
10 note I took was -- is that once the border  
11 crossing was selected, that the idea was that  
12 Manitoba Hydro would back up and seek more input.  
13 And what I took from that was that there would be  
14 additional studies, engagement, so on and so on  
15 that would be done once the border crossing, the  
16 preferred border crossing between the two  
17 utilities had been selected. Is that a fair  
18 statement? And I'm not trying to ask you a trick  
19 question yet.

20 MR. MATTHEWSON: No, that's what  
21 occurred in Rounds 2 through 3.

22 MR. TOYNE: Okay. Here's the question  
23 that I've got then, and this sort of goes back to  
24 my questions about using the model to pick the  
25 border crossing. So the models used to pick the

1 border crossing, and the route that goes to that  
2 border crossing that's preferred is AQS. So at  
3 that point Hydro, at least as I understand it,  
4 would have had two options. Option 1 is use route  
5 AQS as the backbone for the route going forward,  
6 or option 2, you would have been able to sort of  
7 restart the process without using AQS as sort of  
8 the default route. Would you agree with me that  
9 those were the two options that Hydro had at that  
10 point?

11 MR. MATTHEWSON: With the feedback  
12 that we received in Round 1 on the routes that  
13 were presented to the public, it made logical  
14 sense to continue to use AQS, with the level of  
15 feedback that we received to that, with addition  
16 of the mitigative segments that were added from  
17 that feedback to form a new set of route segments  
18 for discussion and public engagement with First  
19 Nations and Metis engagements in Rounds 2 and 3.

20 MR. TOYNE: Right. And I guess the  
21 question I would have after that is, by sort of  
22 focusing on AQS and the mitigative segments that  
23 can be generated off of that sort of default  
24 route, that other viable options to what  
25 eventually becomes the modified border crossing

1 were lost. Would you agree with that statement?

2 MR. MATTHEWSON: Can you repeat the  
3 question, please, so I can answer it.

4 MR. TOYNE: Sorry, sir, I'll try to  
5 ask it a little bit more clearly.

6 So by using AQS, and the mitigative  
7 segments that can be generated off of AQS, by  
8 using that as the route that went into Round 2,  
9 Manitoba Hydro didn't consider other potentially  
10 viable routes that went to the eventually modified  
11 border crossing, like a DKT? Do you agree with  
12 that? And if I am not asking it in the right  
13 technical way, I apologize, but that seems to have  
14 been a bit of a theme the past two days.

15 MR. MATTHEWSON: With the information  
16 that we received in the Round 1 public  
17 engagement, as well as the evaluation process that  
18 selected AQS, Manitoba Hydro proceeded with route  
19 options that followed AQS to that border crossing.  
20 The reasons for DKT's elimination in the original  
21 evaluation of Round 1 still stood, the number of  
22 crossings that it crossed, M602F, and the  
23 paralleling options.

24 MR. TOYNE: Okay. And just on that  
25 point, and thank you for using the phrase

1 elimination. So DKT was also a route that was  
2 eliminated twice, but it wasn't screened forward  
3 or brought forward, to use Ms. Bratland's  
4 terminology. So why was DKT treated differently  
5 from SIL? Was it simply because that wasn't  
6 Ms. Johnson's preferred route?

7 MS. BRATLAND: DKT was screened  
8 forward in the border crossing Preference  
9 Determination Model. It was carefully evaluated  
10 with the relative differences and all the  
11 considerations brought to bear. And then it was  
12 eliminated as a route that went to the Piney East  
13 crossing, as Piney East was no longer under  
14 consideration.

15 So it was eliminated and it was  
16 screened in, both of those things.

17 MR. TOYNE: Right. So it was  
18 eventually eliminated twice and not brought  
19 forward for a third consideration?

20 MS. BRATLAND: We no longer had routes  
21 terminating at Piney East as Piney East was no  
22 longer a border crossing under consideration.

23 MR. TOYNE: If Ms. Johnson had  
24 preferred DKT as opposed to SIL, I take it that  
25 DKT would have formed the backbone of the route

1 that was ultimately selected by Manitoba Hydro?

2 MS. BRATLAND: I'd like to correct the  
3 premise of your question. SIL was not considered  
4 because Ms. Johnson preferred it. Ms. Johnson  
5 posed a question about whether there was a route  
6 that considered both the Riel/Vivian corridor and  
7 the segment to the west of the Watson P. Davidson  
8 Management Area. When that question came forward  
9 to the project team, the project team screened in  
10 the route that had the top simple average  
11 statistics that included those two segments,  
12 because they felt it was important to represent in  
13 the decision-making process.

14 MR. TOYNE: So the members of the  
15 project team that were involved in selecting SIL  
16 to go forward to the next round, how many of them  
17 directly or indirectly report to Ms. Johnson?

18 MS. BRATLAND: I can't quite recall  
19 off the top of my head. There would have been a  
20 few. But the other thing to point out is, when I  
21 facilitated that session and when I brought that  
22 question forward to the team, I didn't indicate  
23 that Ms. Johnson was directing or had a preference  
24 or an interest in that route. I had posed it as a  
25 question to the team for their consideration.

1 MR. TOYNE: And Ms. Johnson was a  
2 participant in the subsequent discussions?

3 MS. BRATLAND: Ms. Johnson was in and  
4 out of the room during the day.

5 MR. TOYNE: All right. So at the very  
6 least, from the team's perspective, it was  
7 something that you thought was important be  
8 reintroduced for discussion.

9 MS. BRATLAND: I believe what I said  
10 is that I posed a question to the team, the team  
11 considered the question, and the team felt it was  
12 important.

13 MR. TOYNE: Now, if you and  
14 Ms. Johnson hadn't reintroduced SIL, do you agree  
15 with me that either routes AY or SGZ would have  
16 proceeded out of Round 2 and into Round 3?

17 MS. BRATLAND: Again, Ms. Johnson nor  
18 I introduced SIL. We posed a question, and the  
19 result of that question was SIL being screened  
20 forward by the project team, and the rest of your  
21 question is hypothetical.

22 MR. TOYNE: Just bear with me for a  
23 second. Could we put up the slide on the right of  
24 the currently blank screen, slide 38?

25 MS. BRATLAND: We're just getting

1 hooked back up. One moment, please.

2 MR. TOYNE: Sure. And just for the  
3 benefit of the panel, I'm slowly approaching the  
4 end. I appreciate if I take too long, to borrow a  
5 phrase from United Airlines, I may get  
6 re-accommodated. So I am watching the clock.

7 And if you can pull it up so that the  
8 routes are actually showing up on there, sorry. I  
9 didn't realize this one would be a bit of a...

10 MS. BRATLAND: We just have to wait  
11 for the data layer to load. It's coming.

12 MR. TOYNE: Okay.

13 All right. So just to go back to the  
14 question that I asked, and I thought it might be  
15 helpful if we have this up there. All right. And  
16 it is a hypothetical and I appreciate that there's  
17 certain hypotheticals that the panel is not going  
18 to answer. But if SIL, so that's the blue one, if  
19 that one had not been put back in or screened  
20 forward, reintroduced, whatever terminology people  
21 want to use, at the community breakout session,  
22 which you were a part of, would you agree with me  
23 that Route AY would have been the route that was  
24 preferred by the community breakout session?

25 MS. BRATLAND: One moment, please. If

1 SIL had not been screened forward, we would have  
2 been using a different comparable set for the  
3 exercise of preference determination, so it is  
4 difficult to project what the project team or the  
5 community breakout session might have had as a  
6 response, because it is always relative within a  
7 comparative set, those discussions.

8 The feeling of the community team is  
9 that no, AY would not have been preferred. But  
10 again, without having the specific set under  
11 consideration and the specific discussions focused  
12 on only that set, it's difficult to say what the  
13 outcome would be.

14 MR. TOYNE: All right. Now, to go  
15 back to an earlier line of questions, again, this  
16 presumes that SIL is not present. So if the  
17 Preference Determination Model accurately took  
18 into account the delay that can arise from  
19 landowners exercising their rights to object to  
20 expropriation, if the Province doesn't take their  
21 rights away, you'd agree with me that either  
22 routes AY or SGZ would have proceeded into  
23 Round 3?

24 MS. BRATLAND: I'm sorry, could you  
25 repeat the question?

1 MR. TOYNE: Sorry, I'll state it a  
2 little more simply. If Manitoba Hydro hadn't  
3 ignored the delay that can arise from  
4 expropriation objections and similar types of  
5 proceedings, routes AY or SGZ would have proceeded  
6 to Round 3?

7 MS. BRATLAND: I do not agree with  
8 you.

9 MR. TOYNE: All right. Another  
10 hypothetical, but this time including SIL. So you  
11 would agree with me that if Manitoba Hydro hadn't  
12 ignored those expropriation related delays that I  
13 have talked about, that routes AY or SGZ would  
14 have proceeded into Round 3 as opposed to SIL?

15 MS. BRATLAND: I would not agree with  
16 you.

17 MR. TOYNE: All right. So this next  
18 small sequence of questions might be better asked  
19 for the next panel, but I'll try with you, and if  
20 I'm asking them to the wrong panel, I do  
21 apologize.

22 So we have heard information that  
23 there's 126 private landowners along the final  
24 preferred route, which is similar to SIL. Are you  
25 able to tell me how many of those landowners have

1 to actually be successful in objecting to  
2 expropriation before Hydro's unable to construct  
3 the final preferred route?

4 MS. BRATLAND: No, I'm not able to  
5 tell you that.

6 MR. TOYNE: Is that the next panel?

7 MS. BRATLAND: You can try with them.

8 MR. TOYNE: All right. I think  
9 Mr. Penner's been here a fair bit watching, so  
10 hopefully he knows some of the information I'm  
11 interested in.

12 I'm going to suggest to you that it  
13 would only take a couple of landowners to  
14 successfully object to expropriation to kill this  
15 project. Do you agree or disagree?

16 MS. BRATLAND: I really can't comment.

17 MR. TOYNE: And if the routing process  
18 had actually taken those types of delays into  
19 account, you'd agree with me that you would be  
20 able to comment?

21 MS. BRATLAND: The project team  
22 reflected on past experience when they considered  
23 schedule risk and the relative difference between  
24 different routes with the types of approvals that  
25 may be required. There was careful consideration

1 and I stand by the decisions the project team  
2 made.

3 MR. TOYNE: As a part of the schedule  
4 risks criteria, or at any point in the routing  
5 process, did Manitoba Hydro consider the  
6 likelihood or probability of the Province of  
7 Manitoba refusing to take away landowners' rights  
8 to object to expropriation?

9 MS. BRATLAND: No.

10 MR. TOYNE: Would you agree with me  
11 that if Manitoba Hydro would like to have this  
12 route constructed before 2020, that route options  
13 also AY or SGZ are far more viable options than  
14 the final preferred route that's based on  
15 Route SIL?

16 MS. BRATLAND: I would not agree with  
17 you.

18 MR. TOYNE: Mr. Chair, I think I'm  
19 almost done. If you could just give me one moment  
20 to consult with the representatives of my clients  
21 that are here? I realize that may be a little  
22 unusual, but it may save a lot of time.

23 THE CHAIRMAN: That's fine.

24 MR. TOYNE: Okay, thank you.

25 (Brief recess)

1 MR. TOYNE: Mr. Chair, I do have some  
2 other questions, but I think they might be more  
3 easily answered or perhaps more appropriately  
4 asked to the next panel. So given that I have  
5 gone just a little bit over my estimate, I will  
6 stop for now.

7 THE CHAIRMAN: Okay. That's good.  
8 And we'll hear those questions at the time of the  
9 next panel. Thank you.

10 I would like to move the break to now,  
11 and then we'll go onto the next speaker or the  
12 next questioning. So we will reconvene at 10:55.  
13 Thank you.

14 (PROCEEDINGS RECESSED AT 10:41 A.M.  
15 AND RECONVENED AT 10:56 A.M.)

16 THE CHAIRMAN: Okay, welcome back  
17 everyone. We're now going to move on. I'm going  
18 carefully do it this time so I get everyone in the  
19 right order. I believe we are now moving on to  
20 Dakota Plains Wahpeton Oyate, and my apologies if  
21 I'm not pronouncing it correctly. And that would  
22 be Warren Mills.

23 MR. MILLS: That was pretty close,  
24 Dakota Plains Wahpeton Oyate.

25 Thank you, Mr. Chairman. Good

1 morning. We want to start by acknowledging and  
2 truly appreciating all the work that you clearly  
3 have done, and we don't pretend to have the  
4 resources or the years that you have had to  
5 prepare this work, to challenge it. And we are  
6 going to leave the route discussions to others.

7           We'd like to look at your work from a  
8 much higher level. And I'd like to start by,  
9 initially, Dakota Plains' concern was for Mother  
10 Earth and the environment. Regrettably, with the  
11 recent announcements of possible increase in the  
12 residential utility bills, conversations we have  
13 had, we've heard concerns as to costs of what we  
14 do. So without getting out of scope hopefully, we  
15 are going to perhaps touch on some of those.

16           Dakota Plains community was given the  
17 Manitoba-Minnesota Transmission Project summary of  
18 the EIS. These documents were circulated in the  
19 band office and we encourage the community to  
20 review them.

21           We have a couple of short snappers  
22 before we get into our issues. Could you turn to,  
23 I believe it's screen 48? I think that's the  
24 matrix. I might be wrong. That's it, preference  
25 determination criteria.

1                   When you refer to the criteria cost,  
2 is cost, cost of the construction, cost of the  
3 entire project, or cost of the project over its  
4 lifespan?

5                   MS. BRATLAND: When we refer to cost,  
6 we are considering high level comparative  
7 construction costs. And in this specific  
8 instance, it also included those additional  
9 elements I discussed in my presentation. So it's  
10 not cost of the entire project. This wouldn't  
11 consider, for example, costs of the convertor  
12 stations when we're comparing, because each of  
13 these routes would have those costs the same.

14                  MR. MILLS: Okay. Within the  
15 information you give us you make the statement,  
16 the estimated cost for the project is  
17 \$350 million. So when you say let's look at, I'll  
18 avoid hypothetical, let's look at URV 1.02 cost,  
19 what does that mean relative to the number that  
20 you provide us in the EIS? So would 1 be  
21 350 million?

22                  MS. BRATLAND: No, the numbers that  
23 are used for the route alternative evaluation  
24 exercise are high level representative estimates  
25 of costs. They are not meant to be reflective of

1 the capital cost of the project. They're used for  
2 a comparative sense.

3 MR. MILLS: I appreciate the delicacy  
4 of the answer, but with respect, let's talk  
5 straight. When you tell us that the estimated  
6 cost of the project is \$350 million, and you tell  
7 us the cost is a criteria, and 40 per cent and  
8 1.02, can you tie that to the information you give  
9 us of \$350 million?

10 MS. BRATLAND: So the costs that we  
11 reflect on when we're looking at the comparative  
12 evaluation of the transmission line route, they  
13 use high level estimate of construction cost for  
14 relative comparisons, and they only use that  
15 portion of costs that's associated with the  
16 transmission line. So the estimate of the  
17 capital, the overall capital project cost includes  
18 a number of additional project components such as  
19 the converter stations. So we have estimates  
20 within the chapter in different tables for the  
21 types of project costs that would have been  
22 calculated, but those are bounded by the elements  
23 of what we're looking at when we're comparing the  
24 transmission lines, and the parts of the  
25 alternative transmission lines that are different,

1 and the difference in cost of those.

2 MR. MILLS: Okay, thank you. You show  
3 us cost, east route the cost is 1. So if the east  
4 route is selected, is it safe for us to assume  
5 that that means that the estimated cost for the  
6 project is \$350 million?

7 MS. BRATLAND: No, that's not what  
8 that 1 is intended to indicate. The 1 indicates  
9 that of those transmission line route alternatives  
10 that are considered, that that was route estimated  
11 to have the lowest cost based on the costs that  
12 are considered in this exercise.

13 MR. MILLS: Okay, I give up.

14 In the high level EIS that you provide  
15 us with, you indicate Manitoba Hydro is proposing  
16 to build this project to export power and then  
17 revenues, improve reliability, and increase the  
18 opportunity for new power sales. Of those three  
19 reasons to build this project, I would suggest  
20 that reliability is the factor which can be most  
21 significantly affected by the routing. And it  
22 strikes us as odd that the reason for this project  
23 is to increase -- improve reliability. And yet  
24 you place a weight of 10 per cent on reliability,  
25 one-quarter of the weight you attribute to cost.

1 Why does system reliability, in your preference  
2 determination, carry such a low value in the face  
3 of your statement that reliability is one of the  
4 three significant reasons for building this  
5 project?

6 MS. BRATLAND: The criteria that are  
7 used here are meant for comparative exercise, and  
8 the cost element is given a relatively high  
9 proportion, partly because of the fact that we  
10 have a mandate to be a cost effective utility and  
11 the cost of project is a very important  
12 consideration, as you point out. System  
13 reliability is also an important consideration to  
14 consider -- I'm saying consideration a lot, I  
15 apologize -- an important factor to consider when  
16 comparing these route alternatives, because of the  
17 import contribution to system reliability of the  
18 line, and the weights were assigned appropriately  
19 for the comparative exercise.

20 MR. GLASGOW: If I can add something  
21 that might help? There is an absolute comparison,  
22 there's a relative comparison. So if you compare  
23 building the project to not building the project,  
24 obviously reliability is very important. This  
25 comparison is just relative among the route

1 finalist. So it's not an absolute comparison when  
2 compared to not building the project.

3 MR. MILLS: We appreciate all you say.  
4 But the argument, as I understand it, that  
5 Manitoba Hydro has made as one of the primary most  
6 significant selling points of this project, is  
7 that it, and we have heard parallel and analogous  
8 elements for Bipole, but that this project will  
9 provide Manitobans with reliability. And it hangs  
10 almost as a veiled threat in some minds. And then  
11 we come to the preference determination of the  
12 project, and we see you carrying system  
13 reliability as such a low value. And it seems, it  
14 doesn't add up in our simple minds.

15 So in plain language, why is system  
16 reliability carrying a 10 per cent weighting in  
17 your route preference, when improving reliability  
18 is the fundamental statement you gave to  
19 Manitobans for the reason for this expense and  
20 this project?

21 MS. BRATLAND: In response to your  
22 question, I'd like to point out two things. One  
23 again is that system reliability is one of the  
24 considerations in this preference determination  
25 table that was established by the management team.

1 System reliability is considered throughout when  
2 planning and evaluating routes. We have  
3 highlighted in our presentation that there are  
4 considerations when drawing routes. We talked  
5 about how far away from the existing 500 line it  
6 is and that consideration and system reliability.  
7 And then we evaluate it again in this step.

8 System reliability is one of the  
9 reasons that Manitoba Hydro, one of the benefits  
10 that Manitoba Hydro and Manitobans gain from this  
11 project, and it is reflected in the preference  
12 determination scores we feel appropriately.

13 MR. MILLS: Could you take us back to  
14 the slide which showed these routes on the map of  
15 southwestern Manitoba? And if it takes a minute  
16 to load that, I can ask some other questions while  
17 that happens. I know we'd like to move along.

18 Some brief comments to the previous  
19 presentation. We would agree with that  
20 presentation, that with so much information  
21 available and so much work having been done, would  
22 you agree with me that a simple 1 to 4 weighting  
23 of matters in which there are literally thousands  
24 of pages of information is, to be polite,  
25 immature? And as an example, where a matter may

1 move in a small increment that might take it from  
2 a 1 to a 2, wouldn't you agree with me that the  
3 weighting would half or double, possibly driven by  
4 a much smaller quantity of decision?

5 MS. BRATLAND: I would disagree with  
6 you that it would be, or that it is immature to  
7 use the scoring that we used and the ranks that we  
8 used, and would point you to the fact that this is  
9 a step in a much larger comprehensive process that  
10 involves considerable evaluation, careful  
11 analysis, feedback, and the determination and  
12 discussion of a large team of professionals when  
13 applying these scores.

14 The fact that it's a number between 1  
15 and 3 is a way to represent a relative difference.  
16 And what's important is in the consideration of  
17 those relative differences, the fact that careful  
18 analysis and discussion informs the assignment of  
19 those numbers so that they carefully reflect those  
20 relative differences.

21 MR. MILLS: We do disagree.

22 The Environment Act 12.02, the reason  
23 why we're here, the director must take into  
24 account the amount of greenhouse gas and the  
25 energy efficiency of this project. We also

1 understand that line loss, and Mr. Penner isn't  
2 here, but we understand that line loss on a  
3 project of this length and level can be as much as  
4 10 per cent. And we understand that, from the  
5 Public Utility Board information provided, that  
6 there may be contracts in place for as much as  
7 \$6 billion of power sales. We are not engineers  
8 or mathematicians, but it seems to us that the  
9 potential for line loss in this project equates to  
10 \$600 million on just that which you hold.

11 In the face of that, why would you not  
12 present us, in the face of the Minister being  
13 required to consider the energy efficiency of this  
14 project, why would the most direct route, ergo the  
15 least line loss, not be one of the final routes  
16 under consideration? It seems to us your routing  
17 has the potential to save tens, perhaps multiples  
18 of tens of millions of dollars in line loss by  
19 just quite simply drawing a straight line?

20 MR. MATTHEWSON: So from a route  
21 planning perspective, where we're trying to  
22 balance all of the interests on the landscape,  
23 drawing a simple diagonal line from Dorsey  
24 Converter Station to the Manitoba-Minnesota border  
25 location, obviously would place us indirectly

1 through the City of Winnipeg, as well as likely in  
2 a substantial amount of prime agricultural land on  
3 a diagonal basis. All of these things are  
4 certainly concerns that we've heard from the  
5 public about the potential effects of a  
6 transmission line. So a simple diagonal line  
7 connecting point A to point B does not consider  
8 all of the facets that Manitoba Hydro has  
9 conducted in the development of this final  
10 preferred route, as well as the assessment of that  
11 route. There are significant challenges with  
12 drawing a straight simple line.

13 MR. MILLS: Have you weighed, or have  
14 you ever heard, have you considered the amount of  
15 line loss that Manitoba Hydro would have on this  
16 project? And have you considered if it would be  
17 feasible to, with a straight line or the shorter  
18 distance route, would that line loss be better  
19 spent on compensating the affected farmers,  
20 compensating the affected Aboriginal indigenous  
21 and Metis groups? And have you ever considered  
22 just the simplest business model of let's build  
23 this as economically as we can, let's build this  
24 with the least amount of line loss that we can,  
25 and let's take those savings and have a healthy

1 conversation as to what we could do with those?  
2 Has that conversation taken place in any of your  
3 routing breakout sessions?

4 MS. BRATLAND: As we noted in the  
5 presentation and in the chapter, transmission line  
6 routing and decision-making is a complex iterative  
7 process that involves the balancing of many  
8 concerns and interests on the landscape. The  
9 consideration of length is a driving consideration  
10 behind a number of these elements. It's  
11 understood that when a line is longer, it has the  
12 potential to have a number of effects, to drive up  
13 cost, to have more impact on the landscape because  
14 it's crossing more potentially affected  
15 individuals and land users. It cannot simply be  
16 boiled down to one consideration at a time. You  
17 must consider all of these potential effects and  
18 all of the different trade-offs when planning and  
19 evaluating a transmission line in order to make a  
20 responsible decision.

21 MR. MILLS: I understand that, and I  
22 appreciate and respect the hard work you have  
23 done. That was my opening statement.

24 My question is, have you drawn a  
25 straight line, asked construction what the

1 construction cost savings would be, asked  
2 construction what the reduction in line loss would  
3 be? And have you stared at that number and asked  
4 yourself, would these monies be better spent,  
5 better spent than building lines all over the  
6 province? Would these dollars be better spent  
7 than evaporating this electricity into the  
8 environment? Would these dollars be better spent  
9 compensating those people directly affected by  
10 this work? Have you ever seen that value, is my  
11 first question; and if you have, have you had that  
12 discussion?

13 MR. MATTHEWSON: We have not had the  
14 discussion of drawing a transmission line route  
15 from Dorsey Converter Station through the City of  
16 Winnipeg, through the City of Steinbach, through  
17 the Watson P. Davidson Wildlife Management Area.  
18 It was simply something that we did not even  
19 remotely consider, because it was logically, or  
20 likely technically infeasible to do.

21 Now, with respect to line loss, the  
22 difference in length between these routes is  
23 relatively minor, so losses are not a factor, line  
24 loss is not a factor with respect to the  
25 comparisons of the ultimate.

1 MR. MILLS: What would the percentage  
2 savings in length of line be between a straight  
3 line and your current preferred route? Have you  
4 ever looked at that number?

5 MR. MATTHEWSON: We have not looked at  
6 that number.

7 MR. MILLS: So it's fair to say that  
8 the Environment Act requires the Minister to  
9 consider the energy efficiency of this project,  
10 and it's fair to say that you have never  
11 established a baseline as to the least expensive,  
12 most efficient route. Would you agree with me?

13 MR. MATTHEWSON: As I previously  
14 answered, to draw a route from Dorsey Converter  
15 Station through those areas is technically  
16 unfeasible, so it was not considered.

17 MR. MILLS: Would it be fair to say  
18 that the real reason that the route can't be drawn  
19 in a straight line is because of the political  
20 effect of Steinbach?

21 MR. MATTHEWSON: No.

22 MR. MILLS: Has your routing ever  
23 received any advice or direction, support or  
24 suggestion from the board or any political forces  
25 as to avoid Steinbach?

1 MS. BRATLAND: No.

2 MR. MILLS: So the reason all of these  
3 routes pass so far around Steinbach are for  
4 reasons other than energy efficiency, or reduction  
5 in greenhouse gas through reduction in  
6 construction length or cost. That's fine. Thank  
7 you.

8 So let's help the Minister. The  
9 Minister states, or the Minister is told in the  
10 Act that she, or the director, she must consider  
11 the greenhouse gas contribution of this project  
12 and the energy efficiency of this project. Which  
13 route introduces the least amount of greenhouse  
14 gas to the environment? I think it's mandatory of  
15 what we're doing that we provide the Minister with  
16 that information. Do you in fact know which route  
17 produces the least greenhouse gas?

18 MS. BRATLAND: Greenhouse gas  
19 production was not a consideration of the routing  
20 panel. You'll have to pose that question to  
21 another panel.

22 MR. MILLS: Okay. We understand the  
23 Pembina Institute manages and calculates your  
24 greenhouse gas life-cycle analysis. Did this  
25 panel provide any information to the Pembina

1 Institute as to the various routes?

2 MS. BRATLAND: Again, your question  
3 will have to be posed to another panel. We  
4 conducted an evaluation of route alternatives, and  
5 our EIS has an evaluation based on the final  
6 preferred route.

7 MR. MILLS: My question is easily  
8 answered. Did your group provide any information  
9 to the Pembina Institute?

10 MS. BRATLAND: The routing panel did  
11 not provide any information directly to the  
12 Pembina Institute.

13 MR. MILLS: Thank you. That's great.  
14 Did your panel prepare any assessments  
15 as to the energy efficiency, or did you contribute  
16 information to other groups within Manitoba Hydro  
17 with regards to studying the energy efficiency of  
18 these various routes?

19 MS. BRATLAND: Our group did not  
20 consider the energy efficiency in our discussions.  
21 We do have engineers, project engineers on our  
22 project team that consider line loss and  
23 efficiency and design. But as we noted, the  
24 difference in length, and it's relatively minor,  
25 and losses were not a factor in the comparative

1 evaluation.

2 MR. MILLS: Did your group refer to or  
3 take into consideration any of the information  
4 provided by the Pembina Institute? And if so,  
5 could you give me an example of some information  
6 that they provided that you would have considered?

7 MR. MATTHEWSON: My apologies, we  
8 didn't get your entire question, sorry. Can you  
9 please repeat?

10 MR. MILLS: I'm sorry, you know what,  
11 I'll move on.

12 Are you familiar with the greenhouse  
13 gas life-cycle analysis on this project?

14 MS. BRATLAND: I am vaguely familiar  
15 with it. You will have to have your questions  
16 directed to that topic for a panel coming up.

17 MR. MILLS: I'm going to, but I'm  
18 interested in what information you provided to  
19 them. I'm going to ask them what information they  
20 received, and I'm going to ask you what  
21 information you sent, so that there's no  
22 misunderstanding.

23 MS. BRATLAND: I personally sent no  
24 information to the Pembina Institute, as I was not  
25 the project team member charged with communicating

1 with that entity.

2 MR. MILLS: Thank you. It seems to me  
3 that the routing decisions require more input than  
4 your matrix. The Minister must, not shall or  
5 might, there's only a couple of things that she  
6 must do, and she must consider the greenhouse gas  
7 contribution of this project, and she must  
8 consider the energy efficiency.

9 If you were not providing her with a  
10 baseline of the most energy efficient route, and a  
11 baseline of the least greenhouse gas producing  
12 solution, you are technical analytical people, I'm  
13 not, but do you think it's possible for the  
14 Minister to reach a fair decision on this project  
15 if she doesn't know what the least contributing  
16 route potentials are?

17 MS. BRATLAND: I wouldn't endeavour to  
18 say what decision the Minister could take. We  
19 have provided a fair bit of analysis and have put  
20 forward a comprehensive Environmental Impact  
21 Statement. That's a decision for the Minister to  
22 take.

23 MR. MILLS: I just heard you say we  
24 haven't provided a fair bit of analysis. Was that  
25 misspeak?

1 MS. BRATLAND: I believe you heard me  
2 incorrectly. I said we have provided a fair bit  
3 of analysis.

4 MR. MILLS: I'm sorry, thank you.  
5 Give me 30 seconds. I just want to check my  
6 notes.

7 So in summary, is it fair to say that  
8 the routing selection includes no specific  
9 criteria input for GHG contribution or energy  
10 efficiency?

11 MS. BRATLAND: No, I don't think that  
12 would be fair to say. I think there are a number  
13 of elements and characteristics of routes,  
14 highlighted within the route evaluation and within  
15 the route chapter, discussing differences between  
16 routes, such as the length or the number of  
17 forested areas crossed, that can then be used in  
18 an evaluation related to climate change and GHG.

19 MR. MILLS: Thank you. One last  
20 question, two points. Stantec provides us with an  
21 air quality assessment of the project, and the  
22 Pembina Institute provides us with a GHG  
23 life-cycle analysis of the project. Did you  
24 provide them with specific routes, or did you  
25 provide them with the information as to a

1 preferred route for them to base their reports on?

2 MS. BRATLAND: I'm sorry, are you  
3 asking about Stantec or about Pembina?

4 MR. MILLS: Both. Did you provide  
5 either of them with information as to which route  
6 they should base their reports on?

7 MS. BRATLAND: As I communicated  
8 directly with Stantec, I can confirm that I did  
9 provide that to Stantec. As I did not communicate  
10 directly with the Pembina Institute, I cannot  
11 comment.

12 MR. MILLS: Which route did you  
13 provide to Stantec for their analysis and report?

14 MS. BRATLAND: In the EIS, Stantec  
15 evaluated the final preferred route, but Stantec  
16 discipline specialists were present on the project  
17 team throughout the process.

18 MR. MILLS: I understand, but they  
19 prepared a report. So it's your information that  
20 their report is based on the final preferred  
21 route?

22 MS. BRATLAND: The EIS and the effects  
23 assessment is based on the final preferred route.

24 MR. MILLS: And you don't know which  
25 route the Pembina Institute's report is based on?

1 MS. BRATLAND: I don't want to comment  
2 on a report or communication that I was not  
3 directly involved in.

4 MR. MILLS: Okay, I'll ask them. With  
5 that I have no further questions. Thank you,  
6 Mr. Chairman.

7 THE CHAIRMAN: Thank you, Mr. Mills.  
8 All right. That brings us back up to the top of  
9 the order. So we'll hear next questioning from  
10 the Consumers' Association of Canada.  
11 Ms. Pastora Sala.

12 MS. PASTORA SALA: Good morning,  
13 Mr. Chair, members of the panel. Thank you for  
14 your patience as I prepare my documents. And good  
15 morning members of the routing panel. For your  
16 information, I have already distributed a list of  
17 the references for my questions both to the  
18 routing panel as well as the CEC panel.

19 My questions will all be directed this  
20 morning to Ms. Bratland. And good morning,  
21 Ms. Bratland.

22 MS. BRATLAND: Good morning.

23 MS. PASTORA SALA: You are the senior  
24 environmental specialist in the Licensing and  
25 Environmental Assessment Department of Manitoba

1 Hydro, correct?

2 MS. BRATLAND: Correct.

3 MS. PASTORA SALA: And you have been  
4 in that position since 2012?

5 MS. BRATLAND: Yes.

6 MS. PASTORA SALA: That's what your CV  
7 says. And you lead the coordination of the  
8 engagement feedback for the routing process for  
9 the MMTP?

10 MS. BRATLAND: I did.

11 MS. PASTORA SALA: And would you agree  
12 that meaningful public engagement is a key element  
13 of any environmental assessment process?

14 MS. BRATLAND: I would.

15 MS. PASTORA SALA: And effective  
16 public participation can increase transparency and  
17 legitimacy in environmental assessment?

18 MS. BRATLAND: I do agree with that.

19 MS. PASTORA SALA: Assist in  
20 repairing, maintaining and building relationships  
21 with participants?

22 MS. BRATLAND: Yes.

23 MS. PASTORA SALA: And one of the  
24 elements of effective public participation is to  
25 provide early and ongoing opportunities for input

1 into the project?

2 MS. BRATLAND: Yes.

3 MS. PASTORA SALA: As indicated at  
4 page 5-8 of the EIS, and during your presentation  
5 yesterday, the objective of routing is to minimize  
6 and mitigate potential overall effects of the  
7 project; correct?

8 MS. BRATLAND: This is correct.

9 MS. PASTORA SALA: And Manitoba  
10 Hydro's goal in their routing methodology was to  
11 provide a transparent model for decision-making,  
12 which sought to reduce effects of the MMTP on  
13 people and the environment, as indicated at page  
14 5-1?

15 MS. BRATLAND: Yes.

16 MS. PASTORA SALA: And as indicated  
17 during your presentation, for example, at page 50  
18 of the powerpoint, and in the EIS at page 5-1, one  
19 of the challenges that came up during the routing  
20 selection process was the balancing of competing  
21 interests.

22 MS. BRATLAND: Yes.

23 MS. PASTORA SALA: And yesterday you  
24 referred to balancing of competing values or  
25 conflicting perspectives between use of private

1 lands and Crown lands, correct?

2 MS. BRATLAND: I did discuss that,  
3 yes.

4 MS. PASTORA SALA: The EPRI-GTC model  
5 was selected as the methodology for routing in the  
6 MMTP project, because Manitoba Hydro has said that  
7 it was previously successfully used across North  
8 America, and because of the transparency of the  
9 model, correct?

10 MS. BRATLAND: Those were two of the  
11 reasons that I discussed.

12 MS. PASTORA SALA: That's fair. And  
13 that's at page 5-7 as well.

14 The EPRI-GTC was used to balance  
15 multiple perspectives and evaluate and compare  
16 route alternatives as indicated at page 5-1, 2, 3;  
17 correct?

18 MS. BRATLAND: Yes.

19 MS. PASTORA SALA: So my questions  
20 today will focus on the pre-planning stage that  
21 went into the implementation of the EPRI-GTC  
22 methodology. So if we think of the funnel, it's  
23 the area at the top of the funnel and before then.  
24 And it's my understanding that one of the first  
25 steps in the pre-planning process, which began in

1 February 2012, is to determine what perspectives  
2 will be considered in the application of the  
3 model. Would that be accurate?

4 Would you like me to restate the  
5 question?

6 MS. BRATLAND: No, I'm just  
7 considering the time line and just making sure I  
8 accurately recollect. One moment, please.

9 MS. PASTORA SALA: Sure. I can also  
10 refer you to page 5-5 of the EIS, if it helps.  
11 And so I'm referring at the top there where it  
12 says, February 2012 preliminary planning.

13 MS. BRATLAND: Yes, I see now, and why  
14 it wasn't jiving in my head.

15 The preliminary planning around the  
16 use of the EPRI-GTC methodology, and the inclusion  
17 of the alternate corridors and macro corridors  
18 started in May of 2013. So there should have been  
19 another date in here. Under February 2012, when  
20 we talk about macro corridors and alternate  
21 corridors, that should indicate early 2013.

22 MS. PASTORA SALA: Okay, sorry. So my  
23 question was, in the pre-planning process, one of  
24 the considerations was to determine the  
25 perspectives, so engineering, geographic, natural

1 environment, and community considerations, what  
2 went into the funnel?

3 MS. BRATLAND: That did happen in  
4 preliminary planning.

5 MS. PASTORA SALA: So thank you to the  
6 individual who pulled this image up.

7 So those initial perspectives we see  
8 here, again, are community considerations, natural  
9 environment considerations, geographic information  
10 and engineering considerations. Can you confirm  
11 that for me?

12 MS. BRATLAND: Yeah, that's what it  
13 says.

14 MS. PASTORA SALA: And those  
15 perspectives would have been selected by the  
16 project management team; correct?

17 MR. GLASGOW: So I developed this  
18 graphic, so I can comment on it.

19 MS. PASTORA SALA: Sure, Mr. Glasgow,  
20 go ahead.

21 MR. GLASGOW: This was actually pulled  
22 from the EPRI project report. So when we  
23 developed this graphic, it's a conceptual diagram  
24 that explains how we consider various perspectives  
25 that you've listed, and we process them through

1 the funnel. And so it's really part of the EPRI  
2 methodology to consider community or built  
3 perspective, as well as natural and engineering.

4 MS. PASTORA SALA: So another way of  
5 saying it would be that this would be kind of like  
6 a template that would come with the methodology.  
7 Would that be correct?

8 MR. GLASGOW: I think that's a fair  
9 statement.

10 MS. PASTORA SALA: And so I'd like to  
11 refer you -- do you still have page 5-5 in front  
12 of you? Okay.

13 So at some point in the pre-planning  
14 process, one of the decisions which had to be made  
15 was to take the template and regroup the  
16 perspectives, or identified perspectives which  
17 would apply for the MMTP project, correct?

18 MS. BRATLAND: Correct. But that  
19 would have happened initially in the development  
20 for the St. Vital to Letellier application.

21 MS. PASTORA SALA: Okay. So still  
22 pre-planning or pre pre-planning? Early?

23 MS. BRATLAND: Yes.

24 MS. PASTORA SALA: Okay. And so to be  
25 clear, one of the perspectives that was dropped

1 from this template was named or called community  
2 considerations; correct?

3 MR. GLASGOW: Again, I created this  
4 diagram, and we use the word community and built  
5 sometimes interchangeably in the methodology. And  
6 as this document was meant to communicate with  
7 laypeople, sometimes built environment doesn't  
8 mean the same thing as community. So that's why  
9 we used the word community in this graphic.

10 MS. PASTORA SALA: Okay. So then  
11 Manitoba Hydro would have chosen the words built  
12 instead of community considerations?

13 MR. GLASGOW: No, actually the EPRI  
14 methodology refers to it as the built environment,  
15 and that's meant to represent where people live in  
16 community considerations.

17 MS. PASTORA SALA: And so again, at  
18 some point in the pre-planning stage, the decision  
19 to drop the name, community consideration was  
20 dropped; correct?

21 MR. GLASGOW: It wasn't dropped. This  
22 is just a different way to emphasize the built  
23 environment. If you read the EPRI report, it  
24 refers to the built environment. So that was the  
25 template, the built environment is the template.

1 It just happens that this graphic uses a different  
2 term, rather than built environment, uses  
3 community.

4 MS. PASTORA SALA: Right. So the  
5 terms that would be used for this model would have  
6 been built, engineer and natural. So the only  
7 thing I'm saying is that these four considerations  
8 here would have either been regrouped or renamed  
9 to be called then built, engineer and natural.

10 MR. GLASGOW: So it's standard process  
11 to use built, engineering and natural in using the  
12 EPRI methodology. And so it's also meant to  
13 capture community concerns as well.

14 MS. PASTORA SALA: Okay. And once you  
15 provide the template, Mr. Glasgow -- and then I'm  
16 going to go back to Ms. Bratland -- so those  
17 decisions relating to what the perspectives are  
18 going to be called for this particular MMTP  
19 project would have been made by the project  
20 management team; correct?

21 MS. BRATLAND: The project team kept  
22 those names, maintained those names.

23 MS. PASTORA SALA: Okay. Thank you.

24 If I recall correctly, and it's  
25 outlined, again, at pages 5-5, that preliminary

1 planning also included a stakeholder workshop  
2 which was held on May 6th to 8th of 2013; correct?

3 MS. BRATLAND: Correct.

4 MS. PASTORA SALA: And the  
5 stakeholders represented at this workshop are  
6 listed in the appendix 5A at page 5A-3?

7 MS. BRATLAND: Correct.

8 MS. PASTORA SALA: And if we look at  
9 that page, we see that the stakeholders present  
10 were grouped into three perspectives. They were  
11 grouped into the engineering, natural and built  
12 perspectives; correct?

13 MS. BRATLAND: Correct.

14 MS. PASTORA SALA: And we heard on the  
15 record yesterday about some of the stakeholders  
16 represented in these, and these included, so we  
17 had government departments, for example, the  
18 Manitoba Infrastructure Transportation, Manitoba  
19 Aboriginal and Northern Affairs, Fisheries and  
20 Oceans, Manitoba Conservation and  
21 Waterstewardship, which is now of course  
22 Sustainable Development, City of Winnipeg was  
23 there, Manitoba Hydro, and some non-governmental  
24 organizations such as Ducks Unlimited, Nature  
25 Conservancy of Canada and Manitoba Trappers

1 Association. Would that be correct?

2 MS. BRATLAND: Those were some of the  
3 groups involved.

4 MS. PASTORA SALA: Okay. Is there  
5 anyone that was at this stakeholder workshop that  
6 is not in appendix 5A at page 5A-3?

7 MS. BRATLAND: Sorry, my memory of the  
8 question always gets a little cloudy when I start  
9 to look at my documents. Could you repeat it for  
10 me?

11 MS. PASTORA SALA: Yes, of course.  
12 Is there anyone that was present at  
13 the stakeholder workshop that is not listed on  
14 page 5A-3 of appendix 5A?

15 MS. BRATLAND: I believe they are all  
16 listed. I was just crosschecking that with the  
17 response to SSC IR 037. And in my quick  
18 crosscheck, subject to careful check later, I  
19 believe that it has the whole list.

20 MS. PASTORA SALA: I can also tell you  
21 I have checked.

22 MS. BRATLAND: And you agree with  
23 that?

24 MS. PASTORA SALA: Yes. Recognizing  
25 what we heard yesterday about the process for

1 stakeholder groups, and also the explanation that  
2 you have already mentioned which is in SSC IR 037,  
3 would it be fair to say that none of the  
4 stakeholders invited or present represented the  
5 consumer interest?

6 MS. BRATLAND: Technically, all of the  
7 individuals present, as they are Manitobans, are  
8 consumers, but no one individual was charged with  
9 speaking on behalf of consumer interests.

10 MS. PASTORA SALA: And so none of the  
11 organizations or individuals present were there  
12 representing or advocating on behalf of consumers;  
13 correct?

14 MS. BRATLAND: The individuals present  
15 at the workshop were there representing the  
16 various land uses and land types on the landscape,  
17 and the suitability of those land features related  
18 to transmission lines.

19 MS. PASTORA SALA: And so another way  
20 of saying that, if I recall Mr. Glasgow's --  
21 Glasgow or Glasgow?

22 MR. GLASGOW: I'll answer to either.

23 MS. PASTORA SALA: All right. So you  
24 had indicated, I believe, you had termed, you had  
25 made the difference between technical expertise

1 and organizations that either represented a  
2 special interest group or special interest  
3 perspective; would that be correct?

4 MR. GLASGOW: Please repeat the  
5 question?

6 MS. PASTORA SALA: So when explaining  
7 yesterday who had been invited at the stakeholder  
8 workshop, you had made the distinction between  
9 groups with technical expertise, and those that  
10 Manitoba Hydro or that you had identified to be  
11 special interest groups; correct?

12 MR. GLASGOW: I'm going to get the IR  
13 that addresses that. Give me a second.

14 So I'm reading from the response to  
15 SSC IR 37.

16 "Manitoba Hydro invited stakeholder  
17 groups, representatives that were  
18 technical knowledge holders that could  
19 bring to the discussion their  
20 understanding of the features on the  
21 landscape and associated values and  
22 use, which made possible for them to  
23 participate in discussions that  
24 examine the relative suitability of  
25 routing a transmission line across or

1 in proximity to these features."

2 MS. PASTORA SALA: Right. And so I  
3 believe we are referring to the same thing, which  
4 indicates that groups or individuals with  
5 technical expertise were invited, as opposed to  
6 those which would have skewed the discussion, or  
7 another way of saying that, would be special  
8 interest groups; correct?

9 MR. GLASGOW: The objective of this  
10 meeting is to get objective input.

11 MS. PASTORA SALA: Right. And so at  
12 this early stage in the process, Manitoba Hydro  
13 was not interested in hearing from those  
14 non-skewed or special interest groups; correct?

15 MS. BRATLAND: Manitoba Hydro sought  
16 input from all interested parties throughout the  
17 project at various different stages. And at this  
18 stage, because it was a regional non-project  
19 specific study conducted to evaluate different  
20 features on the landscape and relative  
21 suitability, it was not sought at that point.

22 MS. PASTORA SALA: Okay. So just to  
23 confirm then, that at this early stage in the  
24 process, some of those special interest groups  
25 that weren't at the table, or that Manitoba Hydro

1 was not interested in hearing from, would have  
2 been consumers, First Nations, Metis Nation, and  
3 Aboriginal organizations. Would that be correct?

4 MS. BRATLAND: I'd like to correct the  
5 premise of your statement. From our perspective,  
6 we are very interested in hearing from all  
7 interested parties, all potentially affected  
8 individuals, and there's different mechanisms and  
9 ways that that is brought to bear in a project.  
10 Once we have an understanding of where the project  
11 is specifically being planned and a better  
12 understanding of those interests, they come in to  
13 play over and over again throughout the process.

14 MS. PASTORA SALA: Okay. So it would  
15 have just been at this pre-planning early stage  
16 that those perspectives were not heard; correct?

17 MS. BRATLAND: As I responded to you  
18 in an earlier response, the understanding from  
19 past projects and concerns we have heard from past  
20 projects, and all the learnings were brought into  
21 the discussion. But you are correct in noting  
22 that there was no specific organization  
23 representing consumers, and there were no specific  
24 First Nations at this meeting.

25 MS. PASTORA SALA: And was the NEB

1 invited or present at this workshop?

2 MS. BRATLAND: No.

3 MS. PASTORA SALA: Was Environment  
4 Canada invited or present at this workshop?

5 MS. BRATLAND: I don't believe  
6 Environment Canada was there.

7 MS. PASTORA SALA: So the very first  
8 time that First Nations, the MMF and Aboriginal  
9 organizations were contacted would have been in  
10 August 2013; correct?

11 MS. BRATLAND: Sorry, there's an IR  
12 that talks about when the first communications  
13 would have gone out on the projects. I want to be  
14 able to give you those facts.

15 So I'm quoting from the response to  
16 MMF IR response number 002, which indicates that  
17 the First Nation, Metis and Aboriginal engagement  
18 began in August 2013. However, in the volume  
19 related to public engagement process, it was noted  
20 that engagement began in June 2013. So there was  
21 some early notification in June 2013.

22 MS. PASTORA SALA: Okay. So  
23 approximately one year after the stakeholder  
24 workshop; correct?

25 MS. BRATLAND: No, months after.

1 MS. PASTORA SALA: The stakeholder  
2 workshop was in May of 2013. And at page 5-11 of  
3 the EIS, we learned that this preliminary planning  
4 process provided the basis to move forward for the  
5 rest of the routing approach. Correct?

6 MS. BRATLAND: It was a very important  
7 piece of information that informed the rest of the  
8 routing approach.

9 MS. PASTORA SALA: I'm quoting  
10 directly from the EIS.

11 MS. BRATLAND: I guess we're saying  
12 the same thing in different ways.

13 MS. PASTORA SALA: So, yes?

14 MS. BRATLAND: Yes.

15 MS. PASTORA SALA: So it's fair to say  
16 that the entire methodology, or the entire funnel  
17 depended on the outcomes of the pre-planning  
18 stage; correct?

19 MS. BRATLAND: No, I don't think it's  
20 fair to say that. I think it is a foundational  
21 piece of information that informs all the  
22 subsequent steps, as well as all of the additional  
23 inputs and steps for external stakeholder data,  
24 feedback and analysis, studies on the landscape,  
25 the ability to talk to numerous experts and

1 interested parties throughout the process.

2 MS. PASTORA SALA: I'm sorry, I  
3 thought you had just recently indicated and agreed  
4 that the preliminary planning provided the basis  
5 to move forward. In my mind, a base is an area  
6 from which you move forward from. Would that be  
7 correct?

8 MS. BRATLAND: I suppose we should  
9 have selected different words if that's the  
10 interpretation being made from them. It is a very  
11 important piece of information that is used to  
12 inform route planning, as described in the  
13 presentation by Mr. Matthewson. So the way that  
14 it was used is how we contextualized it in the  
15 presentation.

16 MS. PASTORA SALA: And the premise of  
17 a funnel is that it gets wider to narrower;  
18 correct? That's what a funnel does?

19 MS. BRATLAND: That's the concept  
20 represented by the funnel.

21 MS. PASTORA SALA: During the  
22 stakeholder workshop, the suitability values for  
23 each features were scored, correct? That's at  
24 page 5-20.

25 MS. BRATLAND: Yes.

1 MS. PASTORA SALA: And then at 5-21 it

2 says:

3 "After the suitability values were  
4 assigned to features, stakeholders  
5 assigned weights to each factors based  
6 on their knowledge and opinion of  
7 importance."

8 Correct?

9 MS. BRATLAND: I can't see that line.

10 MS. PASTORA SALA: It's at the top  
11 under layer weight, it says the exact quote I just  
12 read.

13 MS. BRATLAND: Correct.

14 MS. PASTORA SALA: And so again, the  
15 project management team took what they heard  
16 during the workshop, and they decided to make  
17 adjustments to the criteria and the model, which  
18 is described at page 5A-26; correct?

19 MS. BRATLAND: I'm just going to refer  
20 to your reference. One moment?

21 MS. PASTORA SALA: Yes.

22 MS. BRATLAND: I'm sorry, that page  
23 refers to a different model. The page you are  
24 referring to is the alternate route evaluation  
25 model, which is one of the comparative evaluation

1 tools.

2 MS. PASTORA SALA: And when would  
3 those adjustments to the criteria have been made?

4 MS. BRATLAND: Adjustments to the  
5 alternate route evaluation model criteria were  
6 made after engagement in stakeholder workshops and  
7 Round 1 preliminary engagement.

8 MS. PASTORA SALA: When?

9 MS. BRATLAND: December 5th of 2013.

10 MS. PASTORA SALA: And so at that  
11 point the pre-engagement had happened; correct?

12 MS. BRATLAND: We were actually within  
13 Round 1 engagement at that point. Round 1  
14 engagement began in October of 2013.

15 MS. PASTORA SALA: So a couple of  
16 months after.

17 MS. BRATLAND: Right, in December.

18 MS. PASTORA SALA: But the criteria  
19 was changed; correct?

20 MS. BRATLAND: Yes, the criteria was  
21 modified with the benefit of the feedback through  
22 stakeholder workshops and input. Sorry, it wasn't  
23 modified, it was set for the project with the  
24 benefit of that input.

25 MS. PASTORA SALA: And the adjustments

1 that were made, I'm just focusing on the additions  
2 at this point, would have been the addition to the  
3 criteria of potential commercial forest,  
4 conservation and designated lands, seasonal  
5 construction and maintenance restrictions, and  
6 index of proximity to existing 500 kV lines, as  
7 well as some criteria that were subdivided into  
8 more details aspects; correct? That's outlined at  
9 5A-26.

10 MS. BRATLAND: So we're just pulling  
11 up the IR that compares the changes in the  
12 metrics. The discussions we had with stakeholders  
13 and the public, and the feedback that we received,  
14 resulted in the AREM evaluation model for the  
15 project. The intent is to best represent those  
16 important landscape features and to calculate them  
17 appropriately.

18 So some of the changes that were made  
19 weren't necessarily removals or additions, but  
20 were re-characterizations based on feedback. Some  
21 of them resulted in certain things being reflected  
22 with a higher weight. For example, we have talked  
23 about proposed developments, commercial forest I  
24 believe was an addition because there are  
25 forestry, commercial forest areas in the project

1 area that we wanted to be able to consider. The  
2 intactness and the different natural criteria --

3 MS. PASTORA SALA: Sorry, before you  
4 continue, can I just ask which IR you are  
5 referring to so I can --

6 MS. BRATLAND: I don't have it in  
7 front of me either, sorry, let's look at the IR  
8 together. The IR is SSC IR 076.

9 MS. PASTORA SALA: Okay, go ahead.

10 MS. BRATLAND: So the table that I'm  
11 referring to is, I just find, because I'm visual,  
12 it helpful to look at, in consideration with the  
13 information on page 5A-26.

14 MS. PASTORA SALA: So can you confirm  
15 that the additions that were made would have been  
16 the potential commercial forest, the conservation  
17 designated lands, seasonal construction and  
18 maintenance restrictions, as well as just some  
19 criteria subdivided? I'm only looking at the  
20 additions and not the weight changes or any other  
21 changes.

22 MS. BRATLAND: Okay. So you said  
23 seasonal construction and maintenance,  
24 conservation designated lands, potential  
25 commercial forest, was there another one? I just

1 want to make sure I caught them all.

2 MS. PASTORA SALA: And then you added  
3 some into the subdivide, you subdivided.

4 MS. BRATLAND: Okay.

5 MS. PASTORA SALA: Would that be  
6 correct?

7 MS. BRATLAND: So based on the  
8 consideration of feedback and the application of  
9 the project to this project area, I can confirm  
10 those things were added and changed in the model.

11 MS. PASTORA SALA: And at this early  
12 stage in the planning, you had only been listening  
13 to your -- you were in your -- let me rephrase  
14 that. You had undertaken your stakeholder  
15 workshop, your pre-engagement process, and you  
16 were in, approximately two months into your  
17 engagement process. So you had only heard about  
18 two months worth of information from consumer  
19 advocacy groups; correct? Potentially?

20 MS. BRATLAND: So from the beginning  
21 of our first workshops to the setting of the  
22 criteria in December would have been approximately  
23 five months.

24 MS. PASTORA SALA: But the only  
25 engagement you had done would have been in your

1 Round 1 engagement, which began in December;

2 correct?

3 MS. BRATLAND: So the scope and scale  
4 of the engagement process was highlighted by  
5 Mr. Joyal, and it began and had broad  
6 notification, fairly wide participation. And by  
7 the time we reached December, because we were  
8 about to apply the model for a decision, we needed  
9 to set those criteria, so it included whatever  
10 feedback we had heard through that process and  
11 through the stakeholder workshops, and that  
12 arrived at the final model.

13 MS. PASTORA SALA: Prior to December,  
14 you had only undertaken -- you had undertaken your  
15 stakeholder workshop and your pre-engagement;  
16 correct?

17 MS. BRATLAND: No. We had undertaken  
18 our early notification, we had undertaken --

19 MS. PASTORA SALA: Which is your  
20 pre-engagement.

21 MS. BRATLAND: -- Round 1 engagement,  
22 we had undertaken the May workshops for the  
23 alternate corridor model, and we had undertaken  
24 specific stakeholder workshops on routing.

25 MS. PASTORA SALA: So the

1 pre-engagement, which was July 2013 to  
2 September 2013, focused on sharing of information,  
3 identifying stakeholders and understanding their  
4 level of interest, and gathering some feedback  
5 about how they wanted to be informed; correct?

6 MS. BRATLAND: Yes.

7 MS. PASTORA SALA: And so at that  
8 point you had done that, and you had done your  
9 stakeholder workshop to hear from individuals or  
10 stakeholders; correct?

11 MS. BRATLAND: I think perhaps I'll  
12 take a step back, because we're getting tied up in  
13 dates, and just put out the timeline here, just so  
14 that we can be clear.

15 There were two processes; one a  
16 regional process to inform the alternate corridor  
17 model, that stakeholder model; and then the first  
18 application of our EPRI framework on St. Vital to  
19 Letellier. So that stakeholder workshop was in  
20 May of 2013, with the application to that project  
21 starting shortly thereafter. Then there were MMTP  
22 specific engagement processes that began with the  
23 early engagement, that began in August, I believe.

24 MS. PASTORA SALA: July 2013.

25 MS. BRATLAND: July, sorry, July 2013.

1 The CAC, your organization, was contacted in  
2 August of 2013, to participate in that process.  
3 Then subsequent to that, we had our Round 1  
4 engagement activities, our focused MMTP specific  
5 stakeholder workshops that were in November of  
6 2013, I believe. That all came together to inform  
7 the criteria used in the alternate route  
8 evaluation model that was the model applied on  
9 this project, and that was in December of 2013.

10 MS. PASTORA SALA: At this point,  
11 though, you had only heard from consumers -- you  
12 had only heard from First Nations, the MMF,  
13 Aboriginal organizations, potentially the NEB, and  
14 potentially Environment Canada, for a couple of  
15 months; correct?

16 MS. BRATLAND: We had been hearing  
17 from and reaching out to and meeting with people  
18 since August of 2013. And we invited First  
19 Nations and the MMF to partake in those specific  
20 routing workshops on MMTP in November of 2013.

21 MS. PASTORA SALA: By the fall of  
22 2013, prior to your engagement, Manitoba Hydro had  
23 already decided the perspectives that were going  
24 to be considered. Correct?

25 MS. BRATLAND: In the EPRI-GTC

1 methodology, Manitoba Hydro used the terminology  
2 of engineering, natural and built perspectives.  
3 And throughout the ongoing engagement processes,  
4 we invited all interested parties to take part in  
5 discussions. So from the perspective of how we  
6 grouped information within a decision-making  
7 framework, we had titled those things, but the  
8 perspectives sought and the inputs sought  
9 throughout the project was continuous and open.

10 MS. PASTORA SALA: The criteria within  
11 those perspectives had already been identified by  
12 the project management team; correct?

13 MS. BRATLAND: Sorry, by when?

14 MS. PASTORA SALA: The fall of 2013.

15 MS. BRATLAND: Mr. Glasgow wants --

16 MR. GLASGOW: In this discussion,  
17 we're talking about two different models that have  
18 different places in the funnel. We started the  
19 discussion talking about the alternate corridor  
20 model that was informed through a stakeholder  
21 workshop. And then we continued the discussion  
22 talking about the alternate route evaluation  
23 model. So those are two separate models that were  
24 calibrated at two separate times with two separate  
25 levels of input. So in this discussion I think

1 we're kind of using them interchangeably and it  
2 may be confusing.

3 MS. PASTORA SALA: I'm looking at page  
4 5-5, where it says that the public engagement  
5 began in the fall of 2013. Do you see that?

6 MS. BRATLAND: I do.

7 MS. PASTORA SALA: And so when I refer  
8 to the fall of 2013, what I'm asking you to  
9 confirm is whether at that point Manitoba Hydro  
10 had already considered, or had already decided the  
11 perspectives, so the three perspectives that were  
12 going to be considered?

13 MS. BRATLAND: The three perspectives  
14 that were used in the alternate corridor  
15 evaluation model and the alternate route  
16 evaluation model, and the terminology for those  
17 perspectives, was decided prior to the fall of  
18 2013. But the perspectives and interests that  
19 considered an informed decision-making were open  
20 and sought often.

21 MS. PASTORA SALA: And the criteria  
22 within those perspectives, so Table 5-3, I'm  
23 referring to like what is in the yellow as the  
24 criteria, I don't know if you have a better word  
25 for me?

1 MS. BRATLAND: Sorry, what word is it?

2 MS. PASTORA SALA: Criteria, under the  
3 perspectives?

4 MS. BRATLAND: Okay. We can use  
5 criteria.

6 MS. PASTORA SALA: Those had already  
7 been determined prior to the fall of 2013;  
8 correct?

9 MS. BRATLAND: Yes.

10 MS. PASTORA SALA: And the weights  
11 given to each of those criteria which were  
12 determined by the project management team had also  
13 already been decided?

14 MS. BRATLAND: The weights given to  
15 these criteria were not determined by the project  
16 management team. They were determined in a  
17 stakeholder workshop by the stakeholders  
18 participating. And yes, they had been determined  
19 prior to the fall of 2013.

20 MS. PASTORA SALA: And when you refer  
21 to stakeholder workshop, you're referring to the  
22 handpicked group of stakeholders that were there  
23 from May 6th to May 8th?

24 MS. BRATLAND: I'm referring to the  
25 regional technical data holders and

1 representatives that participated in that workshop  
2 in May 2013.

3 MS. PASTORA SALA: Which excluded  
4 consumer interest advocacy groups?

5 MS. BRATLAND: The CAC was not a  
6 participant.

7 MS. PASTORA SALA: Or any other  
8 consumer advocacy group?

9 MS. BRATLAND: I believe we  
10 established that already.

11 MS. PASTORA SALA: Okay. Those are my  
12 questions. Thank you.

13 THE CHAIRMAN: Thank you.

14 All right. That brings us to the  
15 Southern Chiefs' Organization represented by James  
16 Beddome.

17 MR. BEDDOME: Thank you very much,  
18 Mr. Chair, and your patience is appreciated as I  
19 got set up there. And thank you very much to our  
20 panel for being here today. And I'm looking  
21 forward to asking you some questions. I'm sure  
22 you're happy to know that I'm the last one to ask  
23 you questions. I think so, I don't know, I  
24 believe I'm the last one anyway.

25 So I also want to thank all the other

1 participants in the room, as I'll be following up  
2 on a lot of their questions. So you'll get a lot  
3 of agree and disagree questions from me.

4           One perhaps question I'd asked of the  
5 panel, and any of you can answer but I'll get into  
6 the -- I may for personal reasons grab one person  
7 here or there with some questions that I'll  
8 address. But first question is, would the panel  
9 agree that indigenous people have a strong  
10 connection to the land, that's not only about  
11 hunting and harvesting rights, but also about  
12 their identity and their culture?

13           MR. MATTHEWSON: Yes, the panel agrees  
14 strongly.

15           MR. BEDDOME: And you were aware of  
16 that well before the start of this process?

17           MR. MATTHEWSON: Yes.

18           MR. BEDDOME: And you would agree that  
19 indigenous people have expert knowledge with  
20 respect to those lands?

21           MR. MATTHEWSON: Yes, we would.

22           MR. BEDDOME: Thank you.

23           Mr. Glasgow, I'm going to pick on you  
24 a couple times, not only because of your expertise  
25 but also I got to admit, I love your accent.

1 You're from Alabama originally.

2 MR. GLASGOW: I am originally from  
3 Alabama.

4 MR. BEDDOME: I just got to say, it's  
5 soothing about this Manitoban's ears, it's a  
6 little bit like thinking about a warm sunny day on  
7 our minus 40 winter days there. But one of the  
8 things that I was kind of thinking is, why I  
9 appreciate it is it's unique, right? We're in  
10 Manitoba, we don't hear an Alabama accent every  
11 day. Just like if I went down to Alabama, you  
12 wouldn't hear a Manitoban accent. And it made me  
13 think, when you think about Southern Manitoba,  
14 what's unique, and this is clearly outlined in the  
15 EIS, it is over a hundred years of development.  
16 What's unique is intact land, undisturbed land,  
17 land where indigenous people can exercise their  
18 traditional rights, and connect with their  
19 identity and culture. Do you guys see the  
20 connection of how I'm saying that, particularly in  
21 Southern Manitoba, much like our wonderful  
22 expert's accent, it's a unique thing that we have  
23 less and less of? Do you see that connection?  
24 No?

25 MS. BRATLAND: It's an interesting

1 analogy.

2 MR. BEDDOME: It's an interesting  
3 analogy, but you don't follow me, right? Let me  
4 make this really easy. Over the past hundred  
5 years, Southern Manitoba has developed more and  
6 more, and there's less and less intact natural  
7 lands. Agree or disagree?

8 MR. GLASGOW: Agree.

9 MR. BEDDOME: So that would mean  
10 intact natural lands would be relatively more  
11 unique than developed lands. Agree or disagree?

12 MR. MATTHEWSON: Agree.

13 MR. BEDDOME: So there would be  
14 special reasons to protect those intact lands  
15 then. Agree or disagree?

16 MR. MATTHEWSON: Yes, I think that's  
17 why there are so many protected areas designated  
18 by Manitoba Sustainable Development, and why  
19 Manitoba Hydro used intactness as a criteria in  
20 its evaluation of routes.

21 MR. BEDDOME: And there's lots of  
22 talk, right, about the competing interests, right?  
23 We sort of have what you guys called the built  
24 environment versus the natural environment. And  
25 you were trying to balance those interests to a

1 certain extent; true or not true, or agree or  
2 disagree?

3 MS. BRATLAND: We take all of those  
4 considerations and perspectives into account when  
5 evaluating and planning alternatives.

6 MR. BEDDOME: Just bear with me.  
7 Thank you.

8 Now, you might want to go to, it's  
9 Slide 17 of the routing, not the screen  
10 presentation. You talk a little bit about the  
11 need to avoid, mitigate and compensate, but it's  
12 at the very bottom, you've got to avoid effects  
13 that are difficult to mitigate or compensate. So  
14 would you agree that we have already established  
15 the connection of indigenous people with the land,  
16 it's not only about traditional interests but is  
17 also about their culture and identity. So would  
18 you agree or disagree that those types of impacts  
19 can't be mitigated, loss of culture, loss of  
20 identity is not something that can be mitigated,  
21 whereas impacts to land or business interests can  
22 usually be mitigated by compensation. Would you  
23 agree or disagree, that's not what that slide more  
24 or less is a take-away point from it?

25 Did you need me to repeat the

1 question?

2 MR. MATTHEWSON: Yes, please.

3 MR. BEDDOME: Sure. I'm just looking  
4 at Slide 17, and I think we've already established  
5 that impacts to indigenous people's sense of  
6 identity and culture, in terms of impacts to  
7 lands, is something that can't really be  
8 compensated. Would you agree or disagree with  
9 that?

10 MR. MATTHEWSON: I can't agree or  
11 disagree with that. It would be up to the  
12 individual communities to determine that.

13 MR. BEDDOME: Would you agree that  
14 strictly economic interests are easier to  
15 compensate than more identity or culturally  
16 focused interests? Given that, I think there was  
17 a comment by Mr. Glasgow about what's directly  
18 quantitative and what's not.

19 MR. MATTHEWSON: Can you rephrase your  
20 question, please?

21 MR. BEDDOME: I'll try to give you an  
22 example. We harm someone's business, it's  
23 certainly going to be impacted and there's even  
24 going to be, I would acknowledge, a connection  
25 towards them, but it's something that we can

1 usually put a dollar figure on, we can put a  
2 number on and, therefore, it's easier to  
3 compensate. However, if we do something that  
4 impacts someone's culture or their sense of  
5 identity, that's not something that money can  
6 necessarily fix. That's not something that we can  
7 just put a dollar figure on. That's something  
8 that's about broader interests that aren't easily  
9 quantifiable. Would you agree or disagree with  
10 that?

11 MR. MATTHEWSON: I agree that it's  
12 hard to quantify.

13 MR. BEDDOME: But you don't agree that  
14 that makes it harder to compensate for?

15 MR. MATTHEWSON: It would be hard to  
16 quantify, so it may be hard to determine a level  
17 of compensation. But, again, I would leave it up  
18 to the individual or community that felt there was  
19 an effect that required compensation for them to  
20 determine that.

21 MR. BEDDOME: Okay, thank you. Moving  
22 along a little bit here.

23 Mr. Glasgow, you talked a little bit  
24 about the model, and let's see if I can find your  
25 exact comment. But I believe there was a comment

1 that natural and built and engineering is commonly  
2 one of three features that are taken a look at  
3 when you are applying the EPRI GTC model, I hope I  
4 got that right?

5 MR. GLASGOW: Actually, it's not three  
6 features, it's three perspectives that are  
7 considered.

8 MR. BEDDOME: Three perspectives,  
9 thank you, much appreciated. I'll try my best,  
10 and feel free to correct my language if I misuse  
11 the inappropriate terminology.

12 How many projects have you personally  
13 applied this model to, would you estimate,  
14 roughly?

15 MR. GLASGOW: Several. I'm not sure  
16 off the top of my head, I would say a couple  
17 hundred.

18 MR. BEDDOME: A couple hundred. And  
19 out of your experience, do they always use those  
20 same three -- sorry, what did you call it again, I  
21 don't want to use features again, that's not the  
22 word?

23 MR. GLASGOW: Perspectives.

24 MR. BEDDOME: Perspectives, do you  
25 always use those three perspectives, what you

1 called -- I think on your model had community, but  
2 you called it the built environment, the natural  
3 and engineering. Are those generally the three  
4 perspectives, out of the hundreds of projects you  
5 have done, do they always use those three  
6 perspectives?

7 MR. GLASGOW: Yes, I think built,  
8 natural and engineering are pretty common. There  
9 has been application to add additional  
10 perspectives such as, I think one was added in  
11 Georgia called co-location.

12 MR. BEDDOME: Co-location? Can you  
13 explain more what co-location means?

14 MR. GLASGOW: It was intended to have  
15 the model consider co-location as a perspective,  
16 co-locating with linear infrastructure. In this  
17 case that's a part of the engineering model. But  
18 other than that deviation, I would say most every  
19 project that I can recall used built, natural and  
20 engineering.

21 MR. BEDDOME: And any others, in  
22 addition to co-location, like has it always just  
23 been those three? Is it sometimes four or five  
24 perspectives taken into account?

25 MR. GLASGOW: Other than what I have

1 just described, it's typically built, natural and  
2 engineering.

3 MR. BEDDOME: And I believe this was  
4 already established by Mr. Toyne, but Manitoba  
5 Hydro decided to implement this model before the  
6 Bipole III Commission final report was issued;  
7 correct.

8 MS. BRATLAND: We decided to use this  
9 model before the report was issued. A number of  
10 us were present and participated in those  
11 hearings, and understood the nature of the  
12 concerns, prior to the report being finalized.

13 MR. BEDDOME: And so the first time  
14 this model was used in Canada and in Manitoba was  
15 for St. Vital to Letellier; correct?

16 MS. BRATLAND: No, I believe there was  
17 a previous application of this model on the  
18 Montana-Alberta transmission line.

19 MR. BEDDOME: Montana-Alberta, okay.  
20 But it was used in St. Vital to Letellier here in  
21 Manitoba?

22 MS. BRATLAND: Correct.

23 MR. BEDDOME: Now, one thing that  
24 would be different about the St. Vital to  
25 Letellier project would be that you wouldn't be

1 considered a designated project and you wouldn't  
2 require approval under the Canadian Environmental  
3 Assessment Act. Is that not correct?

4 MS. BRATLAND: We did not require that  
5 approval on that project.

6 MR. BEDDOME: But you do require  
7 approval for this project because it's an  
8 international power line; correct?

9 MS. BRATLAND: We require an NEB  
10 authorization, yes.

11 MR. BEDDOME: Okay. And it's also a  
12 designated project under section 5 of CEAA, a  
13 designated project under CEAA, right, the Canadian  
14 Environmental Assessment Act of 2012?

15 MS. BRATLAND: Yes, CEAA 2012 does  
16 apply.

17 MR. BEDDOME: And it was filed as an  
18 exhibit with the Consumers Association. I'm  
19 wondering if you'd be able to turn to section 5 of  
20 CEAA?

21 I apologize, it looks like it's not  
22 actually in the Consumers Association one, but I  
23 assume you're familiar with section 5(c) of the  
24 Canadian Environmental Assessment Act?

25 MS. BRATLAND: We're just going to

1 pull it up on the computer so we can make sure we  
2 can --

3 MR. BEDDOME: Seems only fair enough.

4 MS. BRATLAND: -- see the exact words.

5 MR. BEDDOME: Sure.

6 MS. BRATLAND: Okay, we have it here.

7 MR. BEDDOME: And just really quickly,  
8 that section is specific to impacts with respect  
9 to Aboriginal peoples, and it would be an effect  
10 from a designated project that either impacts  
11 health and socio-economic conditions of Aboriginal  
12 peoples, physical and cultural heritage, the  
13 current use of the land and resources for  
14 commercial purposes, and any structure, site or  
15 thing that is of historical, archeological,  
16 paleontological -- I haven't seen that one --  
17 and/or architectural significance. So you see  
18 that there.

19 The reason I'm asking that is, don't  
20 you think that perhaps a fourth perspective should  
21 have been added with respect to the concerns of  
22 Aboriginal peoples, when this was a CEAA project  
23 that required that to be taken into account, which  
24 is, in fact, a legal requirement?

25 MS. BRATLAND: On the MMTP project and

1 the EIS that we filed, we did take those things  
2 into account. At the corridor workshops and the  
3 alternate corridor model, we are seeking regional  
4 level knowledge. Those providing input into the  
5 corridor model stage, which is a regional stage,  
6 before application on a specific project, needed  
7 to have data sources of currently existing  
8 geo-spatial data.

9 Feedback Manitoba Hydro has received  
10 in the past suggests that there may be a  
11 reluctance for communities to share sensitive  
12 geo-spatial locational information that could be  
13 used on multiple projects over a broad period of  
14 time.

15 Manitoba Hydro invited communities to  
16 conduct project specific, self-directed studies,  
17 that informed routing decisions and the EIS.  
18 Specific preferences were shared through ATK  
19 studies and preliminary mapping, as well as  
20 through the participation in all of the formal  
21 rounds of engagement throughout the project.

22 MR. BEDDOME: Okay. I'm going to  
23 return to that, and I just want to make it clear  
24 that certainly, and thank you for noting that, I  
25 acknowledge that ownership of ATK, it is really

1 important that First Nations maintain the  
2 ownership and that they control the use of it so  
3 that it isn't misused. So I understand that those  
4 concerns are out there.

5 But I guess returning to the earlier  
6 part and, I mean, many of my colleagues before --  
7 and I thank Ms. Pastora -- directly before me was  
8 getting right into that community meeting where  
9 you indicated we were looking for regional  
10 specific data.

11 I think, Mr. Glasgow, you used the  
12 term -- bear with me, I'm trying to remember what  
13 term you used -- you said sometimes it's referred  
14 to as Expert Judgment Model. Would that be  
15 correct, Mr. Glasgow? You said it's referred to  
16 as Expert Judgment Model?

17 MR. GLASGOW: No. Sorry, the  
18 terminology is a little different. Expert  
19 Judgment Model is another name for the Preference  
20 Determination Model. So I think you're referring  
21 to the Alternate Corridor Model at this point in  
22 time, but I'm not sure.

23 MR. BEDDOME: I don't think I am. But  
24 you'll have to bear with us laypeople, these  
25 different levels, sometimes we have to go through

1 it and make sure we're crystal clear.

2 I'm looking at your funnel, and I  
3 guess that's at slide 3 if you want to go back to  
4 the funnel. And just help me understand this,  
5 Mr. Glasgow. I do apologize, but it's much  
6 appreciated. So the expert judgment model is at  
7 the perspective level; right?

8 MR. GLASGOW: No, that's not correct.  
9 We consider perspectives throughout the entire  
10 siting process, through the whole funnel. So  
11 there is no perspective phase. So the Alternate  
12 Corridor Model is used at the Alternate Corridor  
13 Phase. The Alternate Route Evaluation Model is  
14 used at the Alternate Route Stage. And the  
15 Preference Determination Model, also known as the  
16 Expert Judgment Model, is used to select from the  
17 route finalists, to select the preferred route.

18 MR. BEDDOME: I see it now, sorry. I  
19 apologize. Thank you for clarifying that,  
20 Mr. Glasgow.

21 So what we're looking at is alternate  
22 corridors where the external stakeholder data came  
23 in, and there was some, you were looking for  
24 regional technical data; correct?

25 MS. BRATLAND: Correct. And that

1 occurred prior to application on the specific  
2 project.

3 MR. BEDDOME: Um-hum. Now, if I can  
4 refer you to pages 5A-20 and 5A-21 of the EIS. So  
5 first thing I just want to confirm I'm not  
6 mistaking your words, Mr. Glasgow. Once again,  
7 I'd love to hear it coming from you. You have  
8 made some great comments and I appreciate the  
9 accent.

10 You made a comment, I think it was  
11 during the MMF cross-examination, where you said  
12 you do not have the dataset to apply that criteria  
13 to the model and you cannot run a GIS model if you  
14 don't have any data. I'm paraphrasing, but is  
15 that a fair statement of what you said, a fair  
16 summation of what my notes are? Did I get it  
17 right?

18 MR. GLASGOW: We do need data to run a  
19 GIS model, if that's what you're asking me.

20 MR. BEDDOME: Fair enough. Thank you.

21 Now, as I look at this 5A-20, I look  
22 at, sort of moving down the list, it says here  
23 there's a number of them, waterfall habitat,  
24 waterfall density, waterfall hot spots, Grouse  
25 Lake area, rare species habitat, all of them say

1 no data available. Do you see that at the top of  
2 the page at 5A-20?

3 MR. GLASGOW: Yeah, I see some of the  
4 features that we collected from the stakeholder  
5 workshop. When we went to apply that model on  
6 MMTP there were no datasets available to model  
7 some of the features. So if that's a list you are  
8 reading from --

9 MR. BEDDOME: Yes.

10 MR. GLASGOW: Of course, there are  
11 other datasets that are available.

12 MR. BEDDOME: There is, and thank you  
13 for that, but I'm going to go through some of them  
14 I'm interested in specifically, I guess, and what  
15 isn't available. So you can confirm to me that  
16 you didn't have all of this data that you wanted.  
17 All of these seemed to relate specifically to  
18 waterfowl and other bird species there, and you  
19 didn't have any of that data on that; would that  
20 be correct, at least at that point in the process?

21 MR. GLASGOW: At the alternate  
22 corridor phase, the data that's highlighted in the  
23 report, of course, you'll notice that there are  
24 other datasets that are available for habitat, but  
25 that data was obviously not available at the

1 corridor phase. However, it was probably made  
2 available later on in the process, I would assume.

3 MR. BEDDOME: You would assume. Can  
4 you confirm that?

5 MR. MATTHEWSON: Some of the  
6 information was made available through government  
7 agencies further on into the routing process.

8 MR. BEDDOME: So you didn't have the  
9 benefit of that data when you were doing the  
10 alternate corridor process?

11 MR. MATTHEWSON: Correct.

12 THE CHAIRMAN: Okay. This is Serge  
13 Scrafield and I'm going to interrupt here. It's a  
14 little past 12:30, so we're going to break for  
15 lunch and continue the questioning after lunch  
16 before we move onto the next panel. Thanks.

17 (RECESSED AT 12:33 P.M. TO 1:30 P.M.)

18 THE CHAIRMAN: Okay. Welcome back,  
19 everyone. It is 1:30. Thanks for being timely.  
20 And we will continue the questioning of the panel  
21 by Mr. Beddome. Thank you.

22 MR. BEDDOME: Thank you very much,  
23 Mr. Chair. Thank you again, panelists. So before  
24 the break, we established that all of the  
25 waterfowl data and the grouse lek and the rare

1 species habitat -- there wasn't data available for  
2 that, and therefore it wasn't incorporated at  
3 the -- in the alternate corridors part, portion of  
4 your model; that would be correct?

5 MR. MATTHEWSON: Yes, that's correct.

6 MR. BEDDOME: Thank you. Just trying  
7 to jump back off where we left, so it is clear.

8 Before I move on, there is a couple of  
9 other data that we didn't have, but you mentioned  
10 there was some data that you did have. I was just  
11 looking at it; you -- important bird areas, you  
12 indicated doesn't occur in the route planning  
13 area. You see that? That's the page before,  
14 5819.

15 MR. MATTHEWSON: Yes.

16 MR. BEDDOME: And flyways; I'm  
17 assuming that's referring to bird flyways?

18 MR. MATTHEWSON: That's correct.

19 MR. BEDDOME: And there was no data  
20 available for that. Correct me if I'm wrong, but  
21 I see very little data that was available at all  
22 with respect to birds. Would that be accurate?

23 MR. MATTHEWSON: Yes, for birds, there  
24 were some of the data sets, or the features in the  
25 model, such as important bird areas, those

1 aren't -- is a special designation, IBA. And  
2 those just did not exist in the study area, so  
3 that's why that data set didn't exist.

4           The waterfowl habitat, the waterfowl  
5 pair density, waterfowl hot spots, all of those  
6 data sets were felt to be important to include in  
7 the model when we were talking about Southern  
8 Manitoba. That particular data did not exist at  
9 the time, and some of it may still not exist at  
10 the time of the actual alternate corridor route  
11 evaluation model. However, some data sets, such  
12 as grouse lek areas, that information was  
13 subsequently provided by the Province of Manitoba  
14 and included in alternate route planning.

15           MR. BEDDOME: That wasn't -- the  
16 grouse data wasn't included until alternate route  
17 planning; and you said some of the other waterfowl  
18 data might now be available. Are you able to  
19 confirm whether that data is now available, and if  
20 so, who collected it, when was it collected, when  
21 did it become available?

22           MR. MATTHEWSON: The two data sets,  
23 waterfowl pair density and waterfowl hot spots,  
24 those are data sets that were collected and  
25 created by Ducks Unlimited for other parts of the

1 province and they had not been created or  
2 collected for this study area.

3 Waterfowl habitat didn't exist, but  
4 Manitoba Hydro had since, as part of its  
5 environmental impact field studies, done extensive  
6 visual surveys and bird migration surveys to map  
7 the locations of important bird breeding areas and  
8 use areas.

9 MR. BEDDOME: And that would be  
10 important, because routing is probably the biggest  
11 mitigation measure that you can take in a project  
12 like this; correct?

13 MR. MATTHEWSON: Avoidance of features  
14 is a primary consideration in routing.

15 MR. BEDDOME: My point being, once the  
16 route is selected and the line is built, it's  
17 built; and that, to a certain extent, limits what  
18 can be done to mitigate --

19 MR. MATTHEWSON: That's correct.

20 MR. BEDDOME: And the flyways area,  
21 was that data also subsequently collected as part  
22 of the EPP? I notice there was no data available  
23 on the flyways.

24 MR. MATTHEWSON: I think that  
25 question, I'll have to defer to my experts that

1 are appearing on the biophysical panel to talk  
2 about the field studies that they conducted for  
3 the purposes of the environmental assessment and  
4 aiding in their discussions when it came to route  
5 selection and scoring.

6 MR. BEDDOME: But that wouldn't have  
7 come until route selection, so in terms of the  
8 ultimate corridors, you wouldn't have been --  
9 effectively, you had no data, so you would not  
10 have been aware of the major flightpaths of birds;  
11 would that not be accurate to say?

12 MR. MATTHEWSON: We have a general  
13 understanding of flightpaths of migratory birds  
14 from Canada, or throughout North America; that  
15 information certainly exists, but it didn't exist  
16 in a spatial data set in order to model.

17 MR. BEDDOME: So that information  
18 exists; where does it exist? Where would you be  
19 obtaining that information from?

20 MR. MATTHEWSON: I can't give you  
21 exact references of where those flyways and which  
22 textbooks or biological books you would discover  
23 that information right now.

24 MR. BEDDOME: Okay.

25 MR. MATTHEWSON: Certainly the field

1 studies that were conducted to understand bird  
2 movement patterns and the use of the area by birds  
3 through their migration pattern is described in  
4 the environmental assessment.

5 MR. BEDDOME: Sure. But just to be  
6 clear, those bird studies weren't done at the  
7 alternate corridor process; they weren't done at  
8 that point. Correct?

9 MR. MATTHEWSON: Correct.

10 MR. BEDDOME: So you didn't have that  
11 information to incorporate into the -- at least  
12 that part of alternate corridor planning part of  
13 the process?

14 MR. MATTHEWSON: That information  
15 wasn't incorporated into the alternate corridor  
16 model process, as you described it. It was -- the  
17 general migratory nature of birds along the  
18 rivers, the Red River, the Seine River, certainly  
19 that is a piece of information that was known to  
20 route planners when designing the route segments.

21 MR. BEDDOME: But you are not sure --  
22 it was known to route planners, but you are not  
23 sure where that information comes from at this  
24 point in time?

25 MR. MATTHEWSON: The knowledge of the

1 route planners is more a general nature about the  
2 migratory patterns of birds, and they follow the  
3 river systems and wetland areas.

4 MR. BEDDOME: Okay. I think --

5 MR. MATTHEWSON: Professional  
6 knowledge of that experience.

7 MR. BEDDOME: I think we will be  
8 returning to that.

9 You also didn't have -- the one thing  
10 I find weird is I look at the natural -- I'm on  
11 page 5A-19 -- I'm just trying to understand,  
12 you've got data on non-fish-bearing streams but  
13 not on fish-bearing streams. Just trying to  
14 understand that. If you can provide some context  
15 or verification.

16 MR. MATTHEWSON: So the ephemeral  
17 streams, in brackets, fish-bearing swamps,  
18 ephemeral streams, (CRA fish-bearing and riparian  
19 floodplain) were data sets that didn't occur, or  
20 no data was available to identify those specific  
21 types of streams that were fish-bearing. So that  
22 information about any streams that appeared in the  
23 data sets, fish-bearing and non fish-bearing, are  
24 captured in the ephemeral streams,  
25 non-fish-bearing, and the permanent stream, which

1 are your CRA fish-bearing and permanent stream.

2 MR. BEDDOME: Where does that data  
3 come from?

4 MR. MATTHEWSON: That data comes  
5 from -- let me just double-check.

6 It comes from the Department of  
7 Fisheries and Oceans.

8 MR. BEDDOME: And this is what I'm --  
9 I'm assuming on a lot of these other ones -- I  
10 don't want to be too, too repetitive, but you  
11 know, we go through other identifications here, so  
12 fens, marsh, types of land -- I'm assuming a lot  
13 of that data is coming from the Province of  
14 Manitoba?

15 MR. MATTHEWSON: Yes, it would come  
16 from some -- either a Provincial land cover data  
17 set or a Federal one.

18 MR. BEDDOME: And just tell me, is  
19 there anywhere in the EIS or anywhere -- maybe I  
20 missed it -- any of the information request  
21 responses where we can kind of go through -- you  
22 know, I appreciate that you outline where you have  
23 data available and where you don't have data  
24 available; but the one challenge I have is -- so  
25 where did the data for fens or marsh come from?

1 Where did the one from grasslands come from?

2 I'm not going to go through each and  
3 every one and read out the chart to you; I think  
4 that wouldn't be an efficient use of our time.  
5 But are you able to indicate where all these data  
6 sets came from, what their origins were?

7 MR. MATTHEWSON: Certainly we have  
8 knowledge of where all of the data sets came from  
9 in the model. They came from authoritative data  
10 bases, either supplied by government agencies or  
11 other non-profit agencies, such as Ducks Unlimited  
12 or Nature Conservancy Canada.

13 MR. BEDDOME: Would it be too much to  
14 ask by way of an undertaking to indicate where  
15 those data sets came from in this table?

16 MR. MATTHEWSON: No, Manitoba Hydro  
17 can endeavor to take an undertaking to identify  
18 the data sets used in Table 5A-6.

19 MR. BEDDOME: If I could be a little  
20 bit broader -- and I very much appreciate the work  
21 that will be required in this, actually -- I would  
22 say, with matter for Table 5A-5 -- I know I was  
23 questioning on 5A-6, and I was about to move to  
24 5A-7, all of those, and I guess it even moves over  
25 into 5A-8.

1                   It's just curious to me where all this  
2 data comes from, because it is obviously an  
3 important part of the route planning process.

4                   THE CHAIRMAN: Yes, we have a question  
5 from Hydro.

6                   MS. MAYOR: Not a question, but I  
7 guess a comment. I'm not sure the relevance of  
8 this at this stage. There were two rounds of  
9 information requests where this information could  
10 have been requested. At this stage, to create a  
11 tremendous pile of work for the panel, I'm not  
12 sure if there is relevance to it at this juncture.  
13 Or perhaps Mr. Beddome can narrow his inquiry to  
14 something that's more manageable.

15                   THE CHAIRMAN: Sorry. Serge  
16 Scrafield, Chair.

17                   Just before you respond, Mr. Beddome,  
18 I would like to ask a follow-up question to that  
19 comment: Do you have any estimate or does the  
20 team have any estimate on how much work would be  
21 involved?

22                   So these references aren't readily  
23 available, I take it?

24                   MR. MATTHEWSON: The data that was  
25 used to create these data sets are dozens, or --

1 you know, in the 50-to-60 feature classes,  
2 different data sets that we used. And we  
3 certainly have all that information in our data  
4 set; it would just be a matter of combing through  
5 them and aligning them to each one of the rows,  
6 which, as illustrated in the tables, there is many  
7 rows to do that.

8 MR. BEDDOME: And I appreciate that --  
9 yes, Mr. Chair; thank you.

10 I appreciate the work. Perhaps the  
11 easiest way to do it, just by way of an  
12 undertaking, would be just to give an indication  
13 of what data sets you were provided with during --  
14 and specifically at the alternative corridors part  
15 of it.

16 So I can see here in these tables that  
17 obviously you had some data available and didn't  
18 have some data also available. So perhaps the  
19 easiest way would just be, say -- you've  
20 indicated, you know, we have 50, roughly, data  
21 sets; it would just be a list of -- "These were  
22 the 50 data sets that we had available at this  
23 part in the process."

24 Would that be doable without too much  
25 work?

1 MR. MATTHEWSON: No, the data sets are  
2 all incorporated into what we call our environment  
3 protection management system, which has over four  
4 or five hundred data sets in it. So we still have  
5 to comb through it to know the exact data sets  
6 used on each one of these features.

7 MR. BEDDOME: It is just that -- as  
8 you can appreciate, Mr. Chair, you look, and you  
9 would expect to see a citation or a source for  
10 where the data is coming from. So that's the  
11 reason why I'm asking for it.

12 Certainly, if they want to only  
13 undertake to do 5A-6, I may only have one point in  
14 5A-7, I could live with that. I was just trying  
15 to get transparency in terms of the data.

16 THE CHAIRMAN: Just so I understand  
17 correctly, Mr. Beddome, you are in fact asking,  
18 then, for the data sets to be related to each  
19 specific table entry, if I can call them that?  
20 You are not just asking for a list of the data  
21 sets?

22 MR. BEDDOME: No, I actually refined  
23 to say I could accept a list of the data sets.

24 THE CHAIRMAN: Oh. Okay.

25 MR. BEDDOME: That would be

1 appropriate to me, and that would save Manitoba  
2 Hydro the work of trying to match up each data set  
3 with each -- sorry, "feature", I suppose; I'm  
4 trying to think of the right word they refer to,  
5 but for each -- to correspond with the table.

6           So if they are able to provide a list  
7 of the data sets, then I suspect I would be able  
8 to roughly match them up myself. But it sounds  
9 maybe -- you know, there may be some technical  
10 challenges that maybe I'm not aware of.

11           MS. MAYOR: Manitoba Hydro is not  
12 prepared to make that undertaking at this time.  
13 If Mr. Beddome has a particular concern about one  
14 particular of the items in the line -- but to make  
15 a general undertaking for every single area, all  
16 of the data sets, we are talking dozens of hours,  
17 while the panels are in the middle of all of their  
18 presentations and we're in the middle of the  
19 hearing, something that could have been requested  
20 a number of months ago.

21           And we are not prepared to spend the  
22 time on doing this right now. If he wants to  
23 narrow his focus to one or two of those areas  
24 which are of particular concern to his client, as  
25 opposed to a general curiosity about every single

1 item on that table, which was also dealt with at  
2 the routing workshop, then we might be prepared to  
3 do that.

4 But right now, we are not prepared to  
5 make that undertaking.

6 MR. BEDDOME: Would the data sets just  
7 with 5A-6 -- did it seem like Mr. Matthewson was  
8 able to do 5A-6, would that be acceptable,  
9 Ms. Mayor?

10 MS. MAYOR: It is still a tremendous  
11 amount of work at this stage of the hearing that  
12 we are not prepared to undertake to do.

13 THE CHAIRMAN: I wonder, given we have  
14 a difference of view here, Mr. Beddome, could you  
15 perhaps explain a bit more for the panel what the  
16 purpose of having that information would be to  
17 your line of reasoning?

18 MR. BEDDOME: Sure. I'm trying to get  
19 an understanding of where Manitoba -- and this  
20 will come out further in my questions, but where  
21 Manitoba Hydro obtained its data to -- I mean,  
22 Mr. Glasgow commented that if they don't have the  
23 data, they can't GIS-map it, and it can't be  
24 incorporated into their analysis.

25 So I'm trying to get a sense of what

1 data they had to incorporate in their analysis and  
2 what data they didn't have. And specifically, it  
3 seems like some of this data wasn't available  
4 during the alternative corridors portion of the  
5 stage, but then was available later on.

6 And so I'm just trying to get an  
7 understanding of what data they had when they were  
8 making these decisions.

9 MR. MATTHEWSON: The data that we had  
10 when making the -- on the alternate corridor model  
11 decisions, it's I think articulated in the table.

12 MR. BEDDOME: I would agree, but the  
13 sources are not articulated. You would think  
14 there would be a list of footnotes that would  
15 indicate those sources, but --

16 THE CHAIRMAN: Okay. I think we  
17 understand the thinking here on both sides, and we  
18 will take that under advisement, and then once  
19 we've concluded, we will get back to both parties.

20 MR. BEDDOME: And not to be a bother,  
21 Mr. Chair, I just want a sense of the timelines on  
22 that, or when I might want to politely follow up  
23 with you, or just -- just to understand the  
24 process, Ms. Johnson, I should say.

25 THE CHAIRMAN: We will try and do it

1 today, but it might be tomorrow.

2 MR. BEDDOME: Okay. No, that's  
3 perfectly fine; I just wanted a sense of  
4 timelines. Thank you.

5 THE CHAIRMAN: Sorry, I've been  
6 reminded, tomorrow is not a session. So that  
7 would be Monday.

8 MR. BEDDOME: Thank you, Mr. Chair.

9 MR. MATTHEWSON: Actually, I would  
10 just like to add some information to that.

11 Table 5A-3, the alternate corridor  
12 model criteria definitions, does provide  
13 information where the data sets came from. As an  
14 example, fens and marsh came from wetlands  
15 classifications, based on the forest resource  
16 inventory; stream crossings comes from Fisheries  
17 and Oceans Canada.

18 So there is substantial information  
19 about the sources of the data in that table.

20 MR. BEDDOME: Well, thank you. That  
21 may actually assist me, so it's maybe something  
22 that I overlooked, and I apologize. I do thank  
23 you for that, although I would say I did ask for a  
24 reference, if there was a reference in the EIS;  
25 but I -- looks like I overlooked that, so I will

1 actually review that and maybe will endeavor to  
2 respond accordingly, if that's okay with yourself,  
3 Mr. Chair.

4 THE CHAIRMAN: Yes. What I would  
5 suggest, then, is once you've reviewed that, if  
6 you could advise the panel secretary of --

7 MR. BEDDOME: Most certainly. I  
8 appreciate --

9 THE CHAIRMAN: -- any manner that  
10 might change your request. Thanks.

11 MR. BEDDOME: Moving along to 5A-21, I  
12 notice there is no data set available for hunting  
13 and trapping locations. That would be correct?

14 MR. MATTHEWSON: That's correct.  
15 There is no designated registered traplines in the  
16 area. So -- which is one of the data sets that  
17 could have been used to fulfill that line. So it  
18 is an open trapping area.

19 MR. BEDDOME: I see. That's one data  
20 set you could use, but because there was none  
21 registered in that area, you didn't see a need to  
22 use it, basically?

23 MR. MATTHEWSON: There was no other  
24 sources of information that we knew of at the  
25 time.

1 MR. BEDDOME: There was no other  
2 sources of information that you knew at the time?  
3 Is that correct?

4 MR. MATTHEWSON: Available, currently  
5 available data sets at the time.

6 MR. BEDDOME: Yesterday I heard  
7 Mr. Valdron comment on behalf of Peguis First  
8 Nation that they did have regional data available.  
9 Were you aware of that at the time?

10 MR. MATTHEWSON: When we strive to  
11 fulfill these data sets, we need data sets that  
12 cover the entire study area and focus, and while  
13 Mr. -- while Peguis First Nations' information  
14 would have been useful for that information, it  
15 would've only been one community's perspective on  
16 hunting and trapping locations, so we would have  
17 preferably wanted, as we do with all these data  
18 sets, wanted a complete understanding of hunting  
19 and trapping locations that covered the geographic  
20 area.

21 MR. BEDDOME: I hear you on wanting  
22 multiple community perspectives, and we will touch  
23 on that momentarily. But I would note that it is  
24 my understanding that Peguis has a very large  
25 traditional territory that encompasses a large

1 portion of the region. I'm just curious how you  
2 determined that their data set wasn't appropriate  
3 for your uses, or if you asked them, or if you  
4 inquired.

5 I mean -- you seem to be making a  
6 conclusion; I'm not sure where the basis of that  
7 conclusion came from.

8 MR. MATTHEWSON: We didn't inquire  
9 with Peguis First Nation at the time. We are  
10 aware of their information. When the alternate  
11 corridor model was created, that information  
12 became subsequent through the ATK studies that  
13 were conducted with a variety of communities.  
14 That's when the prior -- most of the information  
15 that was collected pertaining to hunting and  
16 trapping locations was acquired and utilized in  
17 later steps of the route planning process.

18 MR. BEDDOME: Okay.

19 And so you were speaking about how you  
20 didn't want a single community perspective, and I  
21 think when Mr. Toyne was talking, you said, "We  
22 didn't invite individual RMs, either," right? You  
23 gave that example. That would be correct, right?

24 MR. MATTHEWSON: That's correct.

25 MR. BEDDOME: But the Association of

1 Manitoba Municipalities was invited, as a regional  
2 organization, correct?

3 MR. MATTHEWSON: Yes.

4 MR. BEDDOME: Although they weren't  
5 subsequently able to attend. That would also be  
6 correct?

7 MR. MATTHEWSON: That's correct.

8 MR. BEDDOME: Now, I would note that  
9 my client, the Southern Chiefs' Organization,  
10 represents nearly half the First Nations in the  
11 province, and is itself a regional organization.  
12 So why was an invitation not offered to the  
13 Southern Chiefs' Organization?

14 MR. MATTHEWSON: We did not ask the  
15 Southern Chiefs' Organization to participate in  
16 the stakeholders workshops. You are correct.

17 MR. BEDDOME: I am aware of that. My  
18 question was why.

19 MR. MATTHEWSON: So we didn't  
20 believe -- at the time, we didn't believe that the  
21 Southern Chiefs' Organization had spatial data to  
22 share that covered the entire study area. We also  
23 didn't want to exclude other organizations from  
24 that, because they as well may not have had  
25 spatial technical data that encompassed the entire

1 area of Southern Manitoba.

2 MR. BEDDOME: So you didn't believe  
3 they had spatial data, but you didn't inquire with  
4 them to find out whether they had it or not,  
5 whether they had ownership, whether they were  
6 willing to share it? None of those inquiries were  
7 made; you just assumed that was the case?

8 MR. MATTHEWSON: So feedback Manitoba  
9 Hydro had received in the past was just that the  
10 reluctance of communities of sharing this  
11 sensitive information on broad scale -- geospatial  
12 information on a broad-scale project of Southern  
13 Manitoba like this. And really, that information  
14 is much -- of higher value in the routing process  
15 when it is collected through self- -- the  
16 self-directed ATK studies that Manitoba Hydro  
17 funded for the purposes of the MMTP project.

18 MR. BEDDOME: And we will get to that,  
19 and I will return to that.

20 But -- so you were looking for large  
21 spatial sets of data, and so you invited the  
22 Manitoba Lodges and Outfitters  
23 Association; correct?

24 MR. MATTHEWSON: I will have to check  
25 on that. There is a very large list of --

1 MR. BEDDOME: Sure. If you go to  
2 5A-3, they are listed both in natural  
3 perspective -- sorry, yeah, 5A-3, there is a list  
4 of them I would refer you to. I think I can read,  
5 so I can read "Manitoba Lodges and Outfitters  
6 Association"; I'm pretty sure it is there in both  
7 natural perspective and built perspective, but  
8 feel free to -- no, I apologize; it is only there  
9 in natural perspective.

10 MR. MATTHEWSON: Yes, they are on that  
11 list.

12 MR. BEDDOME: So Manitoba Lodges and  
13 Outfitters Association was invited?

14 MR. MATTHEWSON: Yes, that's correct.

15 MR. BEDDOME: Did they have a large  
16 spatial data set for the regional area?

17 MR. MATTHEWSON: The -- Manitoba  
18 Lodges and Outfitters does have information with  
19 respect to the allocations and locations of their  
20 activities, and allocated areas as per the various  
21 licences each one of those types of outfitters  
22 have. So they contain that information.

23 MR. BEDDOME: So their data was  
24 acceptable to you, but any data that my client  
25 might have was not? Would that be correct to say?

1 MR. MATTHEWSON: No.

2 MR. BEDDOME: And the Manitoba  
3 Trappers Association: They were also invited,  
4 right, to both comment on the natural and the  
5 built perspective?

6 MR. MATTHEWSON: Yes. They were  
7 invited to participate in the perspectives, yes.

8 MR. BEDDOME: Although the other  
9 information is clearly coming from largely  
10 Provincial, but also Federal government data; that  
11 be would be correct?

12 On 5A-3. I mean, it's just a general  
13 comment that a lot of these are coming from  
14 Provincial and Federal government departments and  
15 other government sources. You would agree with  
16 that statement?

17 MR. MATTHEWSON: Yes. These  
18 organizations are -- some of which are included in  
19 Provincial governments, Federal governments,  
20 environmental non-government organizations,  
21 agricultural producers, universities, local  
22 government planning districts, City of Winnipeg.

23 MR. BEDDOME: Now, the people that  
24 were going to make this final decision on the  
25 alternate corridor area, they were going to be the

1 project management team, right? They were the  
2 ones that were going to have the final  
3 decision-making authority?

4 MS. BRATLAND: You are referring to  
5 the alternate corridors?

6 MR. BEDDOME: Yes, I am.

7 MS. BRATLAND: So the alternate  
8 corridors are what help us in terms of route  
9 planning. So the function that they serve in the  
10 transmission line routing process is to help the  
11 route planners in looking at how those values map  
12 onto the landscape.

13 MR. BEDDOME: Okay.

14 It is kind of returning earlier to  
15 Mr. Toyne this morning; he was talking about how  
16 the project management team -- the real  
17 decision-makers were three engineers, and there  
18 was only kind of that one perspective to that. Do  
19 you recall that conversation?

20 MS. BRATLAND: I recall indicating  
21 that there was a management team that functioned  
22 on the transmission line routing process, and that  
23 their purpose was to serve to set the criteria for  
24 the preference determination model and the  
25 associated definitions.

1 MR. BEDDOME: And they set the  
2 preference criteria decision, and basically that's  
3 because, as I recall Mr. Glasgow said, it made  
4 sense for high-level people in the company to be  
5 making these broad, high-level decisions, that  
6 they should be made to reflect the corporate  
7 values of the corporation. That would be correct?

8 MS. BRATLAND: That's basically what  
9 Mr. Glasgow said.

10 MR. BEDDOME: And I put it to you that  
11 in something like this meeting that's outlined in  
12 5A-3, Manitoba Hydro effectively made -- you know,  
13 chose who they wanted in the room and who they did  
14 not want in the room. They invited the Provincial  
15 and the Federal government to give data, but not  
16 First Nation government, saying they are too  
17 local; their concerns are too local. They invited  
18 certain organizations that might have information  
19 on trapping and hunting, once again, not First  
20 Nations or even regional organizations.

21 MS. BRATLAND: When Manitoba Hydro  
22 started the process of inviting participants to  
23 the stakeholder workshop, we spent a fair bit of  
24 time deliberating over the types of land uses that  
25 generally play into transmission line routing, the

1 types of concerns we hear through these types of  
2 processes in past projects, and with consideration  
3 of the role that this tool plays in the model, and  
4 deliberated at length over an approach to how to  
5 get people into the room who had the scale of  
6 regional knowledge and data available to inform  
7 the decision at this step.

8           It was not at all intended to minimize  
9 or reduce the value of any data or any perspective  
10 that could be supplied at any point in our  
11 planning process. It was focused on that  
12 objective.

13           The invitation process happened at a  
14 high organizational level with any of these  
15 groups, and the question was also asked if there  
16 was others that they knew of that should  
17 participate in this process.

18           So it wasn't really a -- who do we  
19 want to hand-pick to be in the room; it was a  
20 reflective exercise, and one where we asked people  
21 who had been involved, who we knew to have  
22 land-use information and interest, and to tried to  
23 cast the net broadly, but at the appropriate scale  
24 and level of technical knowledge.

25           So we absolutely respect the value and

1 importance of input received from First Nations  
2 knowledge holders, and tried very hard to work  
3 those into our process. We funded self-directed  
4 studies, because we understand that that's often  
5 the way they prefer to provide that information.

6 MR. BEDDOME: But determining what  
7 data was important or not was a high-level  
8 decision that was made?

9 MS. BRATLAND: No. It was not made by  
10 the management team, the business unit management  
11 team, as you were referring to, that made the  
12 preference determination model.

13 MR. BEDDOME: No, I was -- I thought  
14 you said the invitation to attend was decided at a  
15 high level in Manitoba Hydro, you were indicating.

16 MS. BRATLAND: Sorry, I didn't mean to  
17 infer that; I apologize if that's what I said.

18 I said there was considerable  
19 discussion with members of the project team at  
20 that time, and the invitations were offered. So  
21 if we went to a government agency, say, for  
22 example, a branch of government, we didn't go to  
23 the one person involved in this one small facet;  
24 we went at a higher level of that organization and  
25 indicated the purpose of the workshop and said,

1 "Would you please identify who you would like to  
2 participate in this exercise, who has the  
3 appropriate regional knowledge and expertise."

4 MR. BEDDOME: But who on the project  
5 team, then, made the ultimate decision about what  
6 invitations to send and what not to send?

7 MS. BRATLAND: It was a group decision  
8 made by the project team.

9 MR. BEDDOME: Group decision, and --  
10 sorry, the IR -- I have to look it up; I believe  
11 there was three people that were considered the  
12 top management team that would make the decisions,  
13 if there was a situation --

14 MS. BRATLAND: Right. And what I  
15 meant by my previous comment was the transmission  
16 business unit management team, Mr. Mailey and his  
17 colleagues, were not involved in that decision;  
18 that was made at the project management team level  
19 in the Licensing and Environmental Assessment  
20 Department.

21 MR. BEDDOME: I just want to  
22 confirm -- it is a tiny thing, so it should be  
23 easy. I just want to go to SSC IR Number 37.

24 And in that, they added, on this table  
25 in 5A-3, they ask for a list of all of those that

1 attended and all those that were invited.

2 It just looks to me like it is cut off  
3 at the end, but I think there is a line 16 on the  
4 end. I just want to confirm that this is in fact  
5 the entire list of those that were invited and  
6 those that attended.

7 It looks like it is cut off, in my  
8 printing, so I just want to quickly confirm that.

9 MS. BRATLAND: I believe it is  
10 complete, subject to check.

11 MR. BEDDOME: Fair enough. I think it  
12 is to 16. And I just note on that that although  
13 you indicated individual municipalities and  
14 communities weren't invited, the Winnipeg Planning  
15 Department was invited.

16 MS. BRATLAND: They were invited, and  
17 they did attend.

18 MR. BEDDOME: So that's a one  
19 individual community, with that one perspective;  
20 would you not agree?

21 MS. BRATLAND: Their attendance was  
22 more in the same vein as the regional planners  
23 from the Provincial scale, with considerations  
24 from that large urban centre and what might be  
25 relevant to them in the same context as those

1 regional planners.

2 MR. BEDDOME: So an exception was made  
3 for Winnipeg?

4 MS. BRATLAND: It was a different  
5 context.

6 MR. BEDDOME: Now, yourself,  
7 Ms. Bratland, during your presentation, you  
8 mentioned, I think, that there was 25 to 40  
9 discipline specialists that were involved, and  
10 they were the ones that were once again doing the  
11 alternate corridor part. That would be correct?

12 I think it is at Slide 14, if you want  
13 to go to your presentation. That's where I made  
14 notes when you were presenting it.

15 MS. BRATLAND: When I was speaking  
16 about the numbers 25 to 40, it wasn't specifically  
17 with reference to the alternate corridors.

18 MR. BEDDOME: Oh, okay. So that  
19 wasn't specific to the alternate corridors; that  
20 was more on the project as a whole?

21 MS. BRATLAND: On the project as a  
22 whole, at any given point, and specifically 25 to  
23 40 on the project team in routing decisions.

24 MR. BEDDOME: 25 to 40 on the project  
25 team in routing decisions; okay. Thank you. And

1 so the more than 100 was the project as a whole;  
2 25 to 40 was the discipline specialists on the  
3 project routing.

4           Maybe I missed it; entirely possible.  
5 But is there an information request or anywhere in  
6 the EIS where you are able to determine who these  
7 25 to 40 specialists were?

8           MS. BRATLAND: Anyone who participated  
9 in the routing workshops were listed in the EIS  
10 and in the IR, multiple IRs. And the key  
11 personnel on the entire project and the  
12 disciplines that they represent broadly are listed  
13 under key personnel in the EIS.

14           MR. BEDDOME: Thank you very much. I  
15 appreciate that.

16           So, in terms of these discipline  
17 specialists, 25 to 40 discipline specialists that  
18 you had for routing, did any of them have  
19 expertise in indigenous and First Nations issues?

20           MS. BRATLAND: Yes.

21           MR. BEDDOME: How many?

22           MS. BRATLAND: I will say  
23 approximately four to five, subject to check.

24           MR. BEDDOME: Four to five. Just in  
25 terms of diversity, were any of the people on the

1 routing team of indigenous descent themselves?

2 MS. BRATLAND: This routing team?

3 MR. BEDDOME: You said there was 25 to  
4 40 people, 25 to 40 specialists. I just want to  
5 know if there was some -- I'm curious if there was  
6 diversity in representation there with respect to  
7 indigenous representation.

8 MS. BRATLAND: Our project team was a  
9 fairly diverse team. We did have indigenous and  
10 Metis individuals.

11 MR. BEDDOME: Thank you.

12 Let's go back even further. There was  
13 no public engagement whatsoever when trying to  
14 decide -- First Nation or otherwise -- when trying  
15 to decide what border crossing should be chosen;  
16 is that not correct?

17 MS. BRATLAND: I'm sorry, I didn't  
18 catch the first part of your question.

19 MR. BEDDOME: I'm just saying that the  
20 engagement process hadn't started; there was  
21 no engagement taken, either First Nation or  
22 otherwise, with respect to determining -- you were  
23 looking at the four border crossing locations in  
24 determining which border location to examine.  
25 Would that not be correct?

1 MS. BRATLAND: The objective of  
2 Round 1 engagement was to select a border  
3 crossing, and I believe Ms. Thompson outlined that  
4 there was indigenous -- First Nations-Metis  
5 engagement underway prior to that determination.  
6 And the feedback we would have received prior to  
7 taking that decision is outlined in chapter 4.

8 MR. BEDDOME: Maybe I misunderstood.  
9 I understood there was Round 1, where you chose  
10 the border crossing, and that that was more of an  
11 internal Hydro decision that had to do with what  
12 routes worked for Minnesota Power, which ones  
13 didn't, and that ultimately the border crossings  
14 were narrowed down internally. So there was  
15 actually a public engagement process before those  
16 border crossings were chosen?

17 MS. BRATLAND: Before the border  
18 crossing was selected for the project, Round 1  
19 occurred. So all of the engagement feedback heard  
20 up to that point would have been incorporated into  
21 that decision.

22 MR. BEDDOME: Okay. Thank you.

23 I wonder if you guys can provide any  
24 comment or background context. At page 87 of  
25 190 -- I'm going off the digital PDF of the

1 January 19, 2017, routing workshop.

2 Ms. Riel, on behalf of the Manitoba  
3 Metis Federation, I thought asked some pretty  
4 interesting questions that I wanted to return to.

5 Her question, if I can quickly  
6 paraphrase it, was -- you may want to even look  
7 back at Table 5A-21 -- was effectively that when  
8 you take a look at what was incorporated into the  
9 routing model at this stage, golf courses were  
10 included, but the Metis harvesting area wasn't.

11 And the response was, "Well, neither  
12 were the other harvesting areas of other First  
13 Nations", was the response of Mr. Block. That  
14 would be my quick summation of it.

15 You see the page there: Is that a  
16 relatively accurate summation?

17 MR. MATTHEWSON: The transcript is in  
18 error; it was myself that responded to that  
19 question.

20 However, the comment was, area golf  
21 courses were included in the areas of least  
22 preference. The Metis harvesting area, as  
23 Ms. Riel was pointing out, covers most of Southern  
24 Manitoba. The indigenous traditional use areas,  
25 as Manitoba Hydro is aware, does cover a large

1 portion, or all of Manitoba. And so having those  
2 data sets available would not inform the criteria  
3 of selecting a route, because all of the routes  
4 would have appeared within those boundaries.

5 MS. BRATLAND: And the transcript --  
6 just to clarify, they say "Mr. Block" here, but it  
7 was in fact Mr. Matthewson speaking.

8 MR. BEDDOME: Yes, he just clarified  
9 that. Thank you. So that was my mistake. It  
10 said "Mr. Block," so I thought it was ...

11 Now, Mr. Glasgow, you commented you  
12 thought this was a very transparent project, and  
13 one of the reasons was that the meeting notes were  
14 included in the EIS. And they are not numbered,  
15 but they are at the very end of chapter 5.

16 My question to you is, you said you  
17 have done hundreds of projects; in your past  
18 experience, have meeting notes been shared in any  
19 other project?

20 MR. GLASGOW: I can't recall a project  
21 where the working -- intermediate working papers  
22 were shared. More of a final meeting summary,  
23 maybe, was shared.

24 MR. BEDDOME: Thank you.

25 The one thing that is interesting me

1 as I go through is the names -- sometimes there  
2 is -- you know, a lot of the same names appear as  
3 you go through the meetings, and sometimes they  
4 change. I'm just wondering what was behind that.  
5 Was it just an issue of who was available and  
6 availability, or was there -- at different  
7 meetings, you were calling different people for  
8 different expertise?

9 MS. BRATLAND: We attempted to have  
10 the same expertise represented at all of the  
11 meetings. But as this process took place over a  
12 number of years, occasionally people moved on to  
13 different positions; other people moved into that  
14 responsibility.

15 MR. BEDDOME: Okay.

16 MS. BRATLAND: And some people's names  
17 changed.

18 MR. BEDDOME: That happens sometimes.

19 Now, although you chose to adopt this  
20 routing model before the Bipole III report came  
21 out, in June of 2013, you indicated you were  
22 certainly watching the process and were paying  
23 attention to what was coming forward, and that was  
24 partly how you were looking towards this model.  
25 Would that be a fair statement, Ms. Bratland?

1 MS. BRATLAND: It would be a fair  
2 statement, but I would say we were more than  
3 watching. The Licensing and Environmental  
4 Assessment Department staff were intimately  
5 involved in that hearing and in the Bipole III  
6 project.

7 MR. BEDDOME: And I would expect that.  
8 So you were already aware that likely -- would it  
9 be fair to say you were already aware that likely  
10 the CEC was going to make some recommendations  
11 that you needed to find a more -- I think, as you  
12 called it, quantitative routing method or process;  
13 would that be fair to say?

14 MR. MATTHEWSON: I don't think we  
15 presumed what the CEC was going to come up with a  
16 finding. I started investigating the use of  
17 different technologies for routing as my role in  
18 the department had changed in the midst of that  
19 hearing, so I started investigating different  
20 approaches that utilize more geospatial data in  
21 analysis, and there was a growing field of study  
22 at that time on the use of geospatial technologies  
23 in planning in general, and I was investigating it  
24 for the purposes of transmission route planning.

25 MR. BEDDOME: Were there any other

1 models that caught your eyes that you almost  
2 adopted, rather than this model? Any other close  
3 runner-ups?

4 MR. MATTHEWSON: There were other  
5 approaches that were identified through our RFP  
6 process, when we did do an RFP process, looking  
7 for different routing approaches. And in our  
8 discussions with other utilities, we also were  
9 made aware of different approaches, certainly.  
10 None of them were as formalized as the EPRI-GTC  
11 methodology.

12 MR. BEDDOME: Okay. And is Minnesota  
13 Power using the -- what do you call it -- I call  
14 it the EPRI-GTC, but your routing methodology: Is  
15 Minnesota Power using the same methodology?

16 MR. MATTHEWSON: No, Minnesota Power  
17 did not use the same methodology.

18 MR. BEDDOME: Do you know what  
19 methodology they are using?

20 MR. MATTHEWSON: Broadly speaking --  
21 I'm not sure if they had a term for it -- they  
22 used a quarter-line analysis type of technology,  
23 where they were using a process of elimination, of  
24 eliminating quarter-line segments on the basis of  
25 proximity to residences and other values on the

1 landscape. They would eliminate segments, and  
2 eventually result in -- segments that were left  
3 behind, they joined together to form routes, as  
4 part of that process -- at a very high level -- of  
5 how they did that.

6 MR. BEDDOME: Now, I referenced  
7 yesterday, and I will reference them again -- I'm  
8 assuming you are both aware with recommendation  
9 6.1 and 6.2 from the Bipole III report of  
10 June 2013?

11 MS. BRATLAND: We are just going to  
12 look that up.

13 MR. BEDDOME: So you are not familiar  
14 with it off the top of your heads then?

15 MR. MATTHEWSON: There are numerous  
16 recommendations. We don't know them all.

17 MR. BEDDOME: Fair enough. There is a  
18 lot of stuff to go through, so I can appreciate  
19 that.

20 MR. MATTHEWSON: Yes, we have those in  
21 front of us now.

22 MR. BEDDOME: And what is also clear,  
23 if you look across from those recommendations,  
24 there is a paragraph directly across from it, and  
25 I will just quickly read it -- actually, no, I

1 will summarize it.

2                   It talked -- and it talks before, but  
3 it talks about the importance of incorporating ATK  
4 knowledge earlier in the process. Is that a fair  
5 summation? I mean, I could read the whole  
6 paragraph, but I'm also trying to be mindful of  
7 time here.

8                   Is that a fair summation of one of the  
9 things that certainly was clearly reflected in  
10 this -- the recommendations, particularly this  
11 part 6 of the Bipole III Clean Environment  
12 Commission report? Would you agree with that?

13                   MR. MATTHEWSON: Yes.

14                   MR. BEDDOME: Now, you mentioned that  
15 Manitoba Hydro did fund a number of self-directed  
16 ATK studies, and that -- you know, certainly  
17 that's reflected in the EIS, and I think it should  
18 be in the record that Manitoba Hydro deserves --  
19 and you get not enough praise here; there is a  
20 certain degree of praise that you were already  
21 doing that, that you were going out and you were  
22 funding these self-directed ATK studies.

23                   That said, I also want to put on the  
24 record that there is more to be done; it doesn't  
25 mean that things are perfect. But I do want to

1 acknowledge that certainly that is something that  
2 Manitoba Hydro was doing.

3 But these ATK studies weren't really  
4 started, in many cases, until roughly 2014?

5 MR. MATTHEWSON: So discussions  
6 started with Roseau Anishinabe First Nation in  
7 August 2013 about conducting an ATK.

8 MR. BEDDOME: Okay. So it started in  
9 August of 2013, that would have been after the  
10 alternative corridors had been selected. Correct?

11 MR. MATTHEWSON: Yes, that was after  
12 the alternate corridors were developed, on  
13 August 8, 2013.

14 MR. BEDDOME: Okay. Now, by the time  
15 the ATK report was completed, in August -- well, I  
16 guess it was submitted -- I see here July 8, 2015,  
17 although it is dated August 2015 -- you already  
18 would have been at the preferred route portion of  
19 the funnel, wouldn't you? The preferred route  
20 portion, by that point?

21 MR. MATTHEWSON: While it is true the  
22 final ATK report was filed at that time, Manitoba  
23 Hydro had ongoing engagements with Roseau River  
24 Anishinabe First Nation starting in August 2013,  
25 and up till -- as recent -- continuous until

1 today.

2 So we were gathering feedback on  
3 routes and alternatives from that August 2013  
4 point moving forward, even though their final  
5 report had not been published until much later.  
6 They shared with us their concerns and  
7 information.

8 MR. BEDDOME: And one of your concerns  
9 was that it has been Manitoba Hydro's experience  
10 that the focus always tends to work better if it  
11 is project-specific focus; would that not be  
12 correct?

13 MR. MATTHEWSON: That's been the  
14 preference shared by communities, is that they  
15 want to work with us on a specific project, not in  
16 generalities.

17 MR. BEDDOME: However, in a number of  
18 the ATK reports, when there were routing changes,  
19 it effectively limited their analysis, because  
20 they didn't have any ability to do any further  
21 field studies; would that not be a fair statement?

22 MR. MATTHEWSON: They did express  
23 concerns that they wanted to do further field  
24 studies, and as we are engaging with communities  
25 on an ongoing basis, we are still developing

1 methods by which we can engage with those  
2 communities to gather that further information on  
3 the final preferred route.

4 MR. BEDDOME: Investigating methods  
5 and trying to find ways that you can work with  
6 communities to get a broader range of field  
7 studies that you could utilize to access for  
8 routing purposes; that's a fair statement?

9 MR. MATTHEWSON: No, those are  
10 specific to the final preferred route.

11 MR. BEDDOME: So only specific. So  
12 Manitoba Hydro's focus would be they are only  
13 going to fund ATK studies specifically focused to  
14 a route; they are not looking to find anything at  
15 a broader level?

16 MR. MATTHEWSON: When we approached  
17 communities to discuss them conducting  
18 self-directed ATK studies, we let those  
19 communities determine the scope of their studies.

20 MR. BEDDOME: Just bear with me a  
21 moment.

22 I keep going back to this table,  
23 probably too much, but I wanted to go back to  
24 Table 5-3 again. You're probably sick of me going  
25 to that table, but ...

1                   Let me find my reference. Just bear  
2 with me. Your patience is much appreciated.

3                   Sorry, it is at 5-17 of the EIS.  
4 5-17. It is a long pull-out table.

5                   MR. MATTHEWSON: Yes, I have it in  
6 front. Go ahead.

7                   MR. BEDDOME: I'm just looking for it.

8                   So I notice, in areas of least  
9 preference, you have got religious and worship  
10 site parcels; that would be correct?

11                  MR. MATTHEWSON: Yes.

12                  MR. BEDDOME: Would I be correct in  
13 assuming that those wouldn't include indigenous  
14 religious and worship site practices; that that  
15 would include churches and other religious  
16 institutions that are more common to the settler  
17 population, notwithstanding that many indigenous  
18 people are also of that belief?

19                  I guess what I'm saying is the  
20 religious and worship sites, that would be  
21 churches, maybe cemeteries; would I be correct in  
22 that? Right? But it wouldn't include, say, a  
23 sacred spot, a sacred rock, or somewhere that's  
24 symbolically or culturally or religiously  
25 important to First Nations people, from a

1 spiritual sense?

2 MR. MATTHEWSON: Yeah, the -- yes, the  
3 religious worship site parcels typically included  
4 churches. There is a separate section for  
5 cemeteries in the areas of least preference.

6 But if and when any of those sites  
7 were identified through the TK studies, they were  
8 treated as areas of least preference from a route  
9 planning perspective, as they were identified. If  
10 there were routes identified that did cross over a  
11 particular sacred parcel, that was accounted for  
12 in the discussions of -- during the workshop where  
13 route evaluation took place.

14 MR. BEDDOME: Were there any  
15 subsequent sacred parcels that were identified  
16 that you would be able to identify to me?

17 MS. BRATLAND: I believe I covered in  
18 my presentation that there was a high potential  
19 for those sites in certain areas. The specific  
20 locations, we cannot release.

21 MR. BEDDOME: That makes sense. I  
22 recognize that those sites have to be protected.

23 And it would also be fair to say that  
24 they are harder for you to identify -- and this  
25 was noted in the Bipole III report -- because they

1 don't always stand out in the same way that we  
2 might recognize them, like a church, right, which  
3 we would see in a satellite flyover or a Google  
4 map; would that be a fair comment?

5 MR. MATTHEWSON: Yes, that's fair.  
6 There are certain characteristics or certain types  
7 of sacred sites that are identifiable and others  
8 that are not, and we do rely on the communities to  
9 inform us of those locations, in addition to our  
10 own field studies.

11 MR. BEDDOME: One of the  
12 recommendations of the Bipole III report was to  
13 look at Alberta's model and to work with the  
14 Government of Manitoba and First Nation  
15 governments -- and once again, I respect that the  
16 confidentiality of the information needs to be  
17 shared -- but to help create a broad data set,  
18 would that be an accurate summation of Section 6,  
19 basically, of the recommendations of the  
20 Bipole III report from June of 2013?

21 MR. MATTHEWSON: The non-licensing  
22 recommendation, as described in 6.2, is the  
23 Manitoba Government, with Manitoba Hydro,  
24 investigate the feasibility of developing an  
25 Aboriginal traditional knowledge data base that

1 can be used for future projects.

2 MR. BEDDOME: Okay. Did I say  
3 something different?

4 MR. MATTHEWSON: The Manitoba  
5 Government, to the best of our knowledge, has not  
6 approached Manitoba Hydro to investigate the  
7 feasibility of developing this.

8 MR. BEDDOME: Has Manitoba Hydro  
9 approached the Manitoba Government to investigate  
10 the feasibility of doing that?

11 MR. MATTHEWSON: We have not had any  
12 specific discussions about the development of an  
13 Aboriginal traditional knowledge data base. We  
14 have had discussions with Manitoba Cultural and  
15 Heritage Resources Branch to discuss storage of  
16 heritage resource information and the sharing of  
17 that information back and forth, some of which is  
18 Aboriginal traditional knowledge locations that  
19 are stored as archaeological and heritage sites as  
20 designated under the Heritage Act.

21 MR. BEDDOME: And perhaps most  
22 importantly, have you been in discussions with  
23 First Nation governments, and First Nations  
24 organizations like my client, about potentially  
25 trying to work with, in a way that's culturally

1 sensitive, that respects the privacy and the  
2 sensitive -- as you can imagine, harvesting areas  
3 are people's honeypots, quite literally, and so it  
4 is important that those are protected.

5 But have you tried to reach out to any  
6 First Nation government? Have you tried to reach  
7 out to any First Nation organizations to try to  
8 fulfill this non-licensing recommendation?

9 MR. MATTHEWSON: We have had  
10 discussions with indigenous communities, in the  
11 development of the MMTP project as well as  
12 Bipole III, that those communities prefer to not  
13 share their information in a large managed data  
14 base. So we have had those discussions with some  
15 communities.

16 MR. BEDDOME: And I recognize they  
17 don't want to share it in a large data base, but  
18 could there not be a way of working with First  
19 Nations to help them have that large managed data  
20 base, and then you could get the site-specific  
21 information when you needed it? Would that be  
22 something that you think might be able to work?

23 MR. MATTHEWSON: I think I'm certainly  
24 reaching, with respect to my experience and  
25 knowledge on this topic of Aboriginal traditional

1 as being part of the routing panel here, so I  
2 don't think I can provide any further information  
3 in that respect.

4 MR. BEDDOME: Fair enough. I  
5 appreciate your answers.

6 Ms. Bratland, you talked about how  
7 there was vigorous debate surrounding the SIL  
8 decision. And I note that the minutes are there,  
9 but you didn't really elaborate; you just -- you  
10 kept saying there was this vigorous debate. So  
11 what was the vigorous debate? Who was debating  
12 what, and where were people positioned?

13 MS. BRATLAND: Just so I can  
14 accurately paint the picture for you, would you  
15 like me to outline the vigorous debate in terms of  
16 the routing workshop, when we deliberated the  
17 preference determination on the set of finalists  
18 in Round 2?

19 MR. BEDDOME: I think -- yes, that's  
20 it. When SIL was recommended -- I could look at  
21 my notes to correspond to your slide, but I  
22 believe that would be correct.

23 MS. BRATLAND: Okay. One moment. I'm  
24 going to pull an IR.

25 MR. BEDDOME: Sure.

1 MS. BRATLAND: Okay. Taking us back  
2 to November 2014, November 17.

3 MR. BEDDOME: What were you doing  
4 then?

5 MS. BRATLAND: I was facilitating a  
6 routing workshop with my colleague Mr. Glasgow and  
7 my team of 37 project team members, who are listed  
8 in the response to SSC IR 129.

9 MR. BEDDOME: If you don't mind, I'm  
10 just going to pull that IR. 129, did you say?

11 MS. BRATLAND: 129.

12 MR. BEDDOME: Thank you. I've got  
13 her. Thank you very much for that.

14 Now, this gives me the list of the  
15 participants and their titles; fair enough. Tell  
16 me a little bit about what was being debated.  
17 And -- you know what, it goes back to my question,  
18 so I'm looking at this response here, and this  
19 gives me the list of attendees and their titles,  
20 but it doesn't tell me what the vigorous debate  
21 was all about. It doesn't tell me what was being  
22 debated. I assume there was two or more sides in  
23 terms of different ways to go, maybe --

24 MS. BRATLAND: I highlighted some of  
25 the corridor issues that were debated in my

1 presentation. Are you wanting me to go broader  
2 than that? Or is there a specific topic you want  
3 me to focus on? I just -- it is a long couple of  
4 days, with considerable discussion. We've tried  
5 our best to summarize, in the chapter and in the  
6 presentation, what the key points of difference  
7 were in discussions that led to a different  
8 selection of a route.

9           The dynamic in the room, in terms of  
10 how the process works, is that each team -- we  
11 come together as a team in the morning, and we  
12 review and go through the screening process, and  
13 then we go into breakout sessions, and each team  
14 discusses their perspective on the criteria that  
15 they have, sort of a first proposal, and what the  
16 ranking is.

17           Then we come back into the room, and  
18 we have our broader team discussions. And that's  
19 where the further rationale and underpinnings of  
20 logic behind determinations are presented and  
21 challenged and discussed.

22           MR. BEDDOME: So that's where the  
23 debate occurs, right? You comment a little bit  
24 about the debate, often, between the built and the  
25 natural --

1 MS. BRATLAND: Sometimes the debate  
2 occurs in the breakout rooms as well. The  
3 community team, when they talk about community  
4 perspectives, there is a vigorous discussion about  
5 the difference in those perspectives, where those  
6 perspectives concur, what different types of  
7 regions and land parcels and land features have  
8 different perspectives about them.

9 So the healthy discussion is  
10 continuous, and in many facets.

11 MR. BEDDOME: And I certainly haven't  
12 looked through the meeting notes, and that would  
13 be the best recollection of those discussions and  
14 those debates, then, in the meeting notes that you  
15 can find at the end of chapter 5?

16 MS. BRATLAND: The best summary of the  
17 outcome of those discussions is in the chapter  
18 itself.

19 MR. BEDDOME: Sure. Less looking for  
20 the outcome, more trying to get a sense of the  
21 different perspectives and how they were  
22 competing.

23 MS. BRATLAND: Again, if you can help  
24 me focus on one specific issue, I would certainly  
25 be willing to recollect for you -- to my

1 knowledge, and my memory from two and a half years  
2 ago -- the conversations and key points that go  
3 beyond what was produced in the document.

4 MR. BEDDOME: No, fair enough. I  
5 mean, it is there in the minutes. I think that  
6 that adds enough. I was more -- when I was  
7 watching your presentation, it was sort of  
8 something that I guess piqued my interest, and I  
9 was trying to get a better understanding.

10 I guess -- what I would say to you is,  
11 am I correct in assuming -- it is a little bit  
12 like the joke that lawyers use, that the best  
13 negotiation is one where everyone leaves a little  
14 bit unhappy; would it be fair to say that no one  
15 got exactly what they wanted, and all the project  
16 team had to --

17 MS. BRATLAND: That's a line from land  
18 use planning as well.

19 MR. BEDDOME: Fair enough. It  
20 probably has a relevance across, but ...

21 In terms of schedule delay, certainly  
22 I looked at the minutes; I think it is clear that  
23 working with First Nations was key to avoid  
24 schedule delay, that there was a schedule delay  
25 risk to not working with First Nations. That

1 would be correct; right?

2 MS. BRATLAND: I think that's a bit of  
3 a hypothetical, because Manitoba Hydro would never  
4 consider not working with First Nations --

5 MR. BEDDOME: Okay, but --

6 MS. BRATLAND: -- and the Manitoba  
7 Metis Federation.

8 MR. BEDDOME: Fair enough. But -- so  
9 I can refer you to -- it is actually the page  
10 before appendix 5E, from -- notes from Round 3.  
11 Because there is not page numbers on this, it is  
12 difficult for me to find it, but I got one quote  
13 here -- Mr. Chairman, may I approach, and provide  
14 the panel with this page out of my EIS?

15 THE CHAIRMAN: Yes, sure.

16 MS. BRATLAND: I think I have it here.

17 MR. BEDDOME: Do you have it there?

18 MS. BRATLAND: It is in a table with  
19 "Meeting adjourned at 3:30 p.m." at the bottom?

20 No?

21 MR. BEDDOME: That's at the back of  
22 it, yeah, "Meeting adjourned", on the flip side of  
23 it. And then you go right above "Expert judgment  
24 table scores routes were as follows."

25 It says:

1                   "Shannon Johnson indicated that  
2    Section 35 consultations were likely more of an  
3    issue with respect to risk to schedule than  
4    expropriation. Manitoba Hydro has defined  
5    processes in place to manage expropriation.  
6    Section 35 consultations are less well defined."

7                   MS. BRATLAND: That's what it says.

8                   MR. BEDDOME: Okay. And I put it to  
9    you that it is more important to protect  
10   indigenous rights, and that's what that comment is  
11   reflecting, than it is to protect private  
12   landowners' rights; would you --

13                  MS. BRATLAND: Absolutely not. I  
14   disagree with you.

15                  MR. BEDDOME: So when the two  
16   conflict, how do you decide?

17                  MS. BRATLAND: We have an IR on this  
18   topic.

19                  MR. BEDDOME: Could you just refer me  
20   to the IR? And I will address it later.

21                  MS. BRATLAND: SSC IR 102. And there  
22   is also SSC IR 116, which is related. This IR  
23   states:

24                         "Generally indigenous communities  
25   require more time and must engage more

1 broadly with our own members where  
2 projects will involve more Crown land.  
3 Manitoba Hydro's understanding is that  
4 Crown consultation occurs on a  
5 spectrum, with the length, intensity,  
6 and the scope of the consultation  
7 undertaking changing, depending on the  
8 specific circumstance of the matter  
9 being consulted upon."

10 MR. BEDDOME: So it is Manitoba  
11 Hydro's experience that indigenous communities  
12 require more time, generally speaking?

13 MS. BRATLAND: Manitoba Hydro's  
14 understanding is what I just read to you.

15 MR. BEDDOME: Yeah. No, I'm just  
16 confirming. So that's accurate?

17 MS. BRATLAND: What I read to you is  
18 accurate.

19 MR. BEDDOME: Okay. But that was in  
20 that statement, correct? That that --

21 MS. BRATLAND: Can you please repeat  
22 your statement, so that I can understand what  
23 you're trying to get me to --

24 MR. BEDDOME: Manitoba Hydro's  
25 experience is that indigenous communities often

1 require more time. I could re-read your --

2 MS. BRATLAND: They require more time  
3 and must engage more broadly with their own  
4 members when projects involve more Crown land.  
5 That's our experience.

6 MR. BEDDOME: When projects involve  
7 more Crown land. But this project involves a  
8 substantial amount of Crown land?

9 MS. BRATLAND: On the new  
10 right-of-way, there's approximately 30 per cent  
11 Crown land, 70 per cent private land.

12 MR. BEDDOME: But still, a substantial  
13 amount?

14 MS. BRATLAND: That's your definition  
15 of "substantial".

16 MR. BEDDOME: Okay.

17 MS. BRATLAND: I'm just telling you  
18 the number: 30 per cent.

19 MR. BEDDOME: 30 per cent is Crown  
20 land, so --

21 MS. BRATLAND: Yeah.

22 MR. BEDDOME: Okay. I would say  
23 30 per cent is a significant number; I recognize  
24 70 per cent would be private land.

25 If they need more time, though -- the

1 engagement process with respect to First Nations  
2 started at exactly the same time as it did with  
3 the public?

4 MS. BRATLAND: We started those  
5 processes at approximately the same time, but as  
6 Ms. Zebrowski outlined, we have ongoing  
7 relationships that we have with various  
8 communities, all the communities that we engage  
9 with that we strive to build over time, over  
10 projects, with the corporation and those  
11 communities.

12 MR. BEDDOME: But those ongoing  
13 relationships don't appear to start in the earlier  
14 part of the routing decisions; would you agree?

15 MS. BRATLAND: No, those ongoing  
16 relationships are ongoing. They don't start and  
17 stop based on projects. They are a continuum.  
18 And the information is shared, and the knowledge  
19 is gained over years and years, as we learn about  
20 each other and work together.

21 MR. BEDDOME: You will be happy to  
22 know I only have a few more questions. I won't  
23 say how many, because then I will catch myself in  
24 a lie.

25 Just one quick question. Certainly --

1 I recognize that TLE selections were indicated as  
2 an area of least preference, and that's great.  
3 Certainly Manitoba Hydro would have also been  
4 aware, though, that TLE selections can also be  
5 made on private lands?

6 MR. MATTHEWSON: Yes, we were aware.

7 MR. BEDDOME: Okay. Bear with me; I'm  
8 just reviewing my notes, making sure I didn't  
9 forget anything.

10 Yes, that's all of the questions that  
11 I have. I thank you very much for your time.

12 Thank you very much, Mr. Chair.

13 MS. BRATLAND: Thank you.

14 THE CHAIRMAN: Thank you, Mr. Beddome.

15 Do members of the panel have  
16 questions? All right, Mr. Gillies, why don't you  
17 start.

18 MR. GILLIES: I have two questions for  
19 the panel -- it is Ian Gillies.

20 The first one is to Mr. Glasgow. And  
21 based on your -- I think you said hundreds of  
22 experiences in applying the EPRI model to the  
23 routing decisions, can you give us a sense of  
24 whether Manitoba Hydro employs more or less  
25 geospatial data than what you see in other

1 jurisdictions where you use the model? And are  
2 there geospatial data layers that are missing in  
3 Manitoba that you might expect to find in other  
4 jurisdictions?

5 Background, where we are coming from,  
6 is just to get a relative sense of how Manitoba  
7 and Manitoba Hydro is doing in terms of having  
8 data available to populate the screens that you  
9 use.

10 MR. GLASGOW: Generally speaking, I  
11 would say it is pretty typical, on average. I  
12 think one data set -- James, you correct me if I'm  
13 wrong -- that what was not readily available was  
14 current aerial photography; is that right?

15 MR. MATTHEWSON: The photography was a  
16 couple of years old.

17 MR. GLASGOW: Oh, okay. A couple of  
18 years is not too bad. Sorry; some of these  
19 projects run together over time.

20 But yeah, I would say, on average, it  
21 was consistent with projects we've done in other  
22 areas. You know, Manitoba Hydro actually created  
23 several data sets for use on this project, such as  
24 mapping buildings, and probably some other  
25 features.

1                   So I think, where necessary, the data  
2 was enhanced for the specific project. But, you  
3 know, GIS people always want more data, for sure.  
4 So in these areas where stakeholders had  
5 identified criteria for us to analyze and no data  
6 was available, I would suggest that those are  
7 opportunities to build those data bases.

8                   MR. GILLIES: Thank you.

9                   One other question, and this would be  
10 for Ms. Bratland and Mr. Matthewson.

11                   During the beginning of your  
12 presentation yesterday, there was a slide titled  
13 "Siting Principles". I think it was Slide 18.

14                   Is this slide sort of foundational for  
15 work that you do on all transmission routing  
16 projects, or is it -- or was it specifically  
17 developed for this project?

18                   MR. MATTHEWSON: No, these principles  
19 apply to all transmission siting projects that I  
20 have done in recent history.

21                   MR. GILLIES: Okay, so a follow-up  
22 question to that is, in light of your experience  
23 in MMTP, and maybe with reference to Mr. Bedford's  
24 comments at the outset of this hearing, would  
25 you -- would Manitoba Hydro consider adding an

1 eighth principle, that has to do with respecting  
2 First Nations and Metis interests in the land  
3 affected by transmission projects?

4           Once again, if you want to think about  
5 that and get back to us, that would be fine.

6           MR. MATTHEWSON: When we develop  
7 routes, especially on Crown lands, where we are  
8 very well aware of indigenous use and practices on  
9 those lands, it is certainly something that is  
10 foremost in our minds, because of the intensive  
11 engagement with First Nations and Metis peoples on  
12 all the projects, all the recent projects in my  
13 seven years of doing this, it certainly has a lot.

14           How I would put it as a bullet point,  
15 as a siting principle, I would have to ponder  
16 that, on exactly how I would characterize that as  
17 a siting principle in the appropriate context. So  
18 we can get back to you with that.

19           MR. GILLIES: Thank you.

20           THE CHAIRMAN: This is the Chair  
21 again.

22           Mr. Nepinak.

23           MR. NEPINAK: Mr. Glasgow. Like  
24 Mr. Beddome, I like listening to your voice, so  
25 I'm going to ask you a question.

1                   You indicated yesterday that the EPRI  
2   model represented one of the most transparent  
3   transmission routing processes you have utilized.  
4   In your experience, what particular aspects of the  
5   MMTP routing process have been more transparent or  
6   open to the public than in any other jurisdictions  
7   that you've been a part of?

8                   MR. GLASGOW: I think, number one, the  
9   level of -- multiple rounds of engagement. I  
10  think it was three rounds of public engagement at  
11  different phases in the project. I think that was  
12  more engagement than I have seen on other  
13  projects. Typically it would maybe be one, or  
14  even two rounds. So at every decision point, I  
15  think, you know, the public and the community  
16  was -- other communities were consulted.

17                   Also the level of the documentation  
18  that's in the EIS. For example, working papers,  
19  meeting minutes, and -- sometimes it can get kind  
20  of messy, you know, but just kind of putting it  
21  all out there I thought was very transparent. And  
22  that's something that I haven't seen in other  
23  projects.

24                   So there is a couple of examples.

25                   MR. NEPINAK: Thank you.

1 THE CHAIRMAN: Ms. Streich, any  
2 questions?

3 MS. STREICH: Yes, I have a -- kind of  
4 a two-part question, primarily for Mr. Matthewson  
5 and Ms. Bratland.

6 So I just want to know, based on your  
7 experience in using the EPRI-GTC methodology,  
8 would Manitoba Hydro consider using it again for  
9 transmission routing?

10 MS. BRATLAND: Yes, we would. We  
11 found it a very helpful application. It helped  
12 to, as I noted in the presentation, bring together  
13 a lot of information in a structured process, and  
14 gave a forum for the discussions to be had in a  
15 consistent way, with those transparent weightings  
16 put forward. I think we will continue to use it  
17 on future projects.

18 MS. STREICH: Okay. And another part  
19 of this question: Would you consider that there  
20 might be certain applications or geographies where  
21 this methodology may be more or less suitable than  
22 a traditional siting approach?

23 MR. MATTHEWSON: I think there are  
24 certain siting of transmission lines that are  
25 smaller in scale, in size, where there are less

1 conflicting or -- sorry, not "conflicting", but  
2 there are much more varied type of land uses.

3 Say in Northern Manitoba, where  
4 predominantly it is Crown land, there isn't a lot  
5 of options with respect to the built perspective  
6 and the natural perspective there, where there is  
7 a lot less populace. So with having only a lot of  
8 information from one of the perspectives, it  
9 starts to weigh most of your information towards  
10 that perspective.

11 The general length of a transmission  
12 line, as well, the length of -- complexity of the  
13 line, whether it be a five-kilometre transmission  
14 line, it is fairly simple to just parallel an  
15 existing linear feature. I think Manitoba Hydro  
16 would look to just following that and our siting  
17 principles to guide us in development of that type  
18 of transmission facility, if one is of that  
19 smaller scale.

20 MS. BRATLAND: Okay. To build on what  
21 Mr. Matthewson said, we haven't had a northern  
22 transmission line project to consider, to apply  
23 this to, but we have had a fair bit of debate  
24 about how would that work, and would it have the  
25 same benefits as in the southern landscape, where

1 you have the more varied mix of uses in sort of a  
2 developed and undeveloped context.

3           And one of the reasons the alternate  
4 corridor model is called the Southern Manitoba  
5 alternate corridor model is because we felt that  
6 that was the appropriate regional scale to apply  
7 it to, and if we look to apply it in different  
8 landscapes, we would want to back up to that step  
9 and reconsider whether those perspectives and  
10 categories and features were the appropriate ones  
11 for application in that area.

12           MS. STREICH: Okay. Thank you very  
13 much.

14           MS. BRATLAND: I would like to return  
15 to Mr. Gillies's question about indigenous  
16 incorporation into the siting principles.

17           I think on Slide 63, where I went into  
18 the discussion, when I reviewed back on to the  
19 same principles, I talked about the three pillars  
20 that I felt are required for route planning, and  
21 one of those key pillars being that First Nations  
22 and Metis engagement process be conducted for a  
23 siting principle to even be applied. Without that  
24 pillar, just like a three-legged stool, if you  
25 take any one of those pillars away, if you take

1 away the expertise, or you take away the First  
2 Nations and Metis and public engagement, or you  
3 take away the geospatial data, if you take any one  
4 of those away, the stool is going to fall over.  
5 You need all three of them to really come up with  
6 sound routing processes and siting principles.

7 THE CHAIRMAN: I do have a couple of  
8 questions, and they are a lot more specific than  
9 pillars or principles, so I hope you don't mind.

10 The first is for Ms. Bratland.  
11 Questioning by Mr. Toyne, I believe that was  
12 yesterday, we thought we heard that Gardenton West  
13 was eliminated prior to the application of the  
14 EPRI-GTC methodology, yet Map 53 and other maps  
15 and our general understanding prior to that  
16 comment was the opposite.

17 It might be our understanding, but I  
18 wonder if you could clarify that.

19 MS. BRATLAND: I'm just looking at a  
20 time line here that helps me keep all these things  
21 straight.

22 The removal of Gardenton West occurred  
23 October 2013. So that would have been after the  
24 alternative corridors were developed, but prior to  
25 stepping further down the funnel in the process.

1 THE CHAIRMAN: Prior to ... ?

2 MS. BRATLAND: Prior to alternative  
3 route evaluation.

4 THE CHAIRMAN: Okay. So between  
5 alternative corridor evaluation --

6 MS. BRATLAND: Generation. Um-hum.

7 THE CHAIRMAN: -- and alternative  
8 route evaluation; would that be fair?

9 MS. BRATLAND: Yes.

10 THE CHAIRMAN: Okay, good. Thank you.

11 The second question concerns Map 5-9.  
12 Is that something you can put up, or not? Or you  
13 don't have that available to put up on the screen?

14 MS. BRATLAND: We will pull that up.

15 We are just trying to see if the  
16 projector over there is working.

17 THE CHAIRMAN: It is the map that  
18 shows alternative corridors to multiple border  
19 crossings, Map 5-9. I'm having trouble with the  
20 number, but I think that's 5-9. Anyway, just  
21 looking at, it is the one that we are looking for.

22 So just visually looking at it, there  
23 appear to be no corridors that -- or I will  
24 reverse that: All corridors begin at either the  
25 Riel end -- okay, we can work off this one.

1 I realize that the corridors here are  
2 not exactly starting from the Riel-to-Vivian end  
3 points, or that corridor, but -- or that  
4 right-of-way. However, it looks like they are  
5 beginning from close to the end points of that  
6 right-of-way, either the Riel end or the Vivian  
7 end. Is that an accurate observation?

8 MR. MATTHEWSON: Yes. So the  
9 Riel/Vivian corridor goes from the orange diamond  
10 to where this transmission line, existing 500 kV  
11 transmission line turns south. So the corridors  
12 are started at the end of the -- the alternate  
13 corridors start at the end of the Riel/Vivian  
14 corridor, and near the start in the south loop.

15 THE CHAIRMAN: Okay. And the reason  
16 we are raising this is because there was  
17 considerable discussion about the SIL option  
18 during the course of the last day and a half.  
19 There appears to be no corridor, or no thought to  
20 an end -- a corridor end point anywhere else along  
21 that right-of-way, at this point in the planning.  
22 Is that accurate?

23 MR. MATTHEWSON: We started it at  
24 these two points. They are representative of the  
25 area. We could have started the corridors at any

1 point along the Riel/Vivian corridor, but we did  
2 need a defined start point, so that's why we chose  
3 the start of it. And the end of it, because the  
4 Riel/Vivian corridor allowed us to bypass a lot of  
5 residential and agricultural areas there, that's  
6 why we chose to use the end of it as the starting  
7 point.

8 THE CHAIRMAN: Is it a fair  
9 conclusion, then, to say that prior to the  
10 development of the SIL route, you were looking for  
11 a route that could accommodate the -- I think  
12 there were two -- "assumptions" is the wrong word,  
13 but there were two segments that you wanted to  
14 accommodate in a route, so SIL was developed to  
15 accommodate those two segments. But prior to  
16 that, was there any consideration to starting the  
17 route or the corridors in the stage before, at a  
18 point along that line, along the Riel/Vivian line?

19 MR. MATTHEWSON: We are just going to  
20 bring up the Round 1 alternative routes, which  
21 would illustrate --

22 THE CHAIRMAN: That would help, yes.

23 MR. MATTHEWSON: So as you can see,  
24 this line right here is the Riel -- one of the  
25 segments within the Riel/Vivian corridor, past the

1 end of it, actually. And then we have various  
2 points that we came outside of the Riel/Vivian  
3 corridor, along its length.

4 And then in Round 2, we introduced  
5 other options that started exiting where SIL was.

6 Keep in mind, we also had a Bipole III  
7 500 kV transmission line that was coming up  
8 through this area as well, which we had concerns  
9 with, proximate to it, as well.

10 THE CHAIRMAN: Then it is fair to say  
11 that at the -- once you began to look at  
12 alternative routes, there were spots along that  
13 Riel-to-Vivian corridor were examined as a  
14 starting point -- that's what you're showing here  
15 -- but at the stage of the corridors, only the two  
16 end points were considered. Is that a fair  
17 conclusion?

18 MR. MATTHEWSON: Yes.

19 THE CHAIRMAN: For the reasons that  
20 you've given.

21 MR. GLASGOW: If I could address that.

22 So the corridors were meant to be  
23 representative corridors. In this situation, we  
24 could have started anywhere along that Riel/Vivian  
25 line. And if we would have started a corridor,

1 say, every -- you know, 1,000 metres, it would  
2 literally cover up the entire study area. So we  
3 didn't want to lose resolution there.

4 So that was one of the things that  
5 made this project more interesting, in that we  
6 could start anywhere along that line, and then we  
7 could finish anywhere along the four end points.  
8 So we choose to use representative corridors at  
9 either extreme end of that line to help develop  
10 routes within it.

11 THE CHAIRMAN: All right. So in order  
12 to limit the permutations or the combinations, you  
13 had to pick some spots, so you picked the two  
14 ends. That did not, in itself, mean that you had  
15 eliminated from consideration routes that could  
16 start in between, and in fact, in the end, you did  
17 look at routes that started in between. Would  
18 that be a fair way to ... ?

19 MR. GLASGOW: That is correct.

20 THE CHAIRMAN: Okay. That's good,  
21 thanks.

22 Okay, I've run past my own time, so it  
23 kind of puts me in a difficult position to address  
24 others. It is 5 after 3. We will take 15  
25 minutes; we will be back here at 3:20. Thank you.

1 (Recessed at 3:05 to 3:20 p.m)

2 THE CHAIRMAN: All right. Welcome  
3 back, everyone. And that will bring us to the  
4 construction, operations, and property panel.  
5 Have I got the name right?

6 Okay. So we will leave it to you to  
7 start your presentation. Thank you.

8 MS. JOHNSON: They have to be sworn in  
9 first.

10 Gentlemen, could you please state your  
11 names for the record.

12 MR. PENNER: Glenn Penner.

13 MR. MATTHEWSON: James Matthewson.

14 MR. STUART: Alec Stuart.

15 MR. IRELAND: Brad Ireland.

16 (Panel members sworn)

17 MR. PENNER: Thank you, and good  
18 afternoon. I will give a presentation on the  
19 construction process for the MMTP. Again, my name  
20 is Glenn Penner, Director of Transmission  
21 Construction at Manitoba Hydro.

22 So just quickly, the project schedule,  
23 as we see it from a construction perspective, is  
24 to start construction in January of 2018 and to  
25 complete the construction March of 2020. We see

1 two sections, Dorsey to Anola, and I think it has  
2 been referred to here as the Dorsey-Vivian  
3 portion, and then from Anola to the border.

4 So I see -- by giving you an  
5 understanding of the construction methods, I think  
6 we can break it down into kind of five areas. So  
7 access, clearing, construction of the foundations,  
8 tower assembly, and stringing.

9 So, firstly, access. Access and  
10 clearing.

11 So access trails are required to get  
12 to the right-of-way and to get the right equipment  
13 to the each tower location to put up the towers  
14 and string the conductor. Access, for the most  
15 part, is typically found either off municipal  
16 roads, or with approved approaches, or where we  
17 can't find specific existing access points, we  
18 will have to construct additional access.

19 This is a picture -- I believe it is  
20 from Bipole III, and it is an access trail that  
21 was repurposed to access to the Bipole III  
22 construction line. So in a Crown land area, this  
23 would be a typical type of access trail to the  
24 right-of-way.

25 This photograph shows essentially the

1 right-of-way at a river crossing, and you will see  
2 that there is actually an access trail along the  
3 right-of-way, and that's how equipment and  
4 vehicles will get from tower location to tower  
5 location.

6 This is some of the equipment that's  
7 used to access areas that pickup trucks and others  
8 won't be able to access initially once -- when the  
9 construction begins.

10 So moving on to clearing, this is what  
11 is known as a feller buncher. So clearing can be  
12 done in a variety of methods. We have shear  
13 blading, mulching, feller bunching, and hand  
14 cutting.

15 The goal of clearing a transmission  
16 line right-of-way to is to remove the tree growth  
17 while not disturbing the root mass and the  
18 understory of low-growing shrubs. Land that is  
19 grubbed, or removed right down to the root mass,  
20 is only at the access trail locations and at the  
21 tower.

22 So again, this is a picture of a  
23 feller buncher. And what it does is it reaches  
24 out with its arm and has a circular saw blade on  
25 the bottom that cuts the tree -- sorry, grabs the

1 tree, cuts the tree, and then goes on and grabs a  
2 series of trees before laying them down.

3 This is a dozer with a shear blade on  
4 the front. So the way shear blading works is in  
5 frozen ground conditions, the root mass is frozen  
6 into the ground, and this machine will push the  
7 tree, and it actually shears it off above the root  
8 mass.

9 If the ground isn't frozen, this  
10 operation doesn't work very well; it ends up  
11 pushing and uprooting the trees, and so other  
12 methods need to be used if the ground isn't  
13 frozen, but does a fairly good job when there is  
14 frozen ground.

15 This is a picture of a mulcher. So  
16 mulching can be done once the trees have been  
17 shear-bladed or feller-bunched and laid down.  
18 This mulcher can go over the trees and essentially  
19 turn it into a mulch to be spread on the  
20 right-of-way. Or there is other equipment that  
21 will also mulch directly from trees standing, but  
22 this piece of equipment would do it after the tree  
23 has been cut down.

24 And then of course hand cutting, with  
25 chain saws, in sensitive areas and areas where

1 there is lesser-dense trees.

2 Here is a shot of a cleared  
3 right-of-way. And you can see that there is a  
4 river crossing, and you can see that narrowed  
5 portion where there is a buffer zone, an  
6 environmentally sensitive zone, and it shows  
7 clearly the access trail along the right-of-way as  
8 well as that buffer zone that we referred to.

9 This is also a shot from Bipole III.  
10 This is a picture of the cleared right-of-way at  
11 the Assiniboine River crossing. And you can  
12 clearly see some of the understory that's been  
13 left after this was hand-cut.

14 So after it has all been cleared, we  
15 will start by doing a geotech investigation to  
16 determine what kinds of foundations are required  
17 at each tower site. So depending on the tower  
18 location and subsurface conditions, there are a  
19 variety of solutions to putting in foundations.  
20 There could be steel screw piles, cast-in-place  
21 concrete, or pre-cast footings may be used.

22 So mat footings and anchors, rock  
23 footings and anchors, screw piles, micropiles, and  
24 the cast-in-place concrete. Again, it all depends  
25 on what we find in a geotech investigation.

1                   This is a typical picture of the  
2    installation of a concrete mat anchor. So for a  
3    guyed structure, there is one foundation in the  
4    middle, and then there is four guys for the tower.  
5    This would be a typical good soil condition  
6    situation, where we would essentially dig a hole,  
7    place in a pre-cast concrete mat with a steel  
8    anchor rod on it, and then backfill that site, and  
9    then that's what we attach the guys to.

10                   Again, this is another picture of an  
11   excavator digging a mat foundation.

12                   And yet another picture of an anchor  
13   installation. And again, these would be mat  
14   foundations.

15                   So that on a guyed structure, again,  
16   we would have a single point in the middle; this  
17   would be a typical pre-cast foundation. So it is  
18   a concrete pad that's been cast in place, or --  
19   sorry, it has been cast in an -- inside a warm  
20   environment, and then bolted to the steel column,  
21   and that will be placed in a hole and then  
22   backfilled. So that becomes the centre  
23   foundation.

24                   This is a typical picture of what it  
25   looks like to install a screw pile. So steel

1 screw pile can range in diameter -- essentially it  
2 can be 20 or 40 feet long, and there will be  
3 flights at the end of it, and the idea is that  
4 this excavator has a torque head on it, and this  
5 anchor is essentially screwed into the ground.  
6 And if it needs to have a longer distance, it is  
7 extended with another pipe, and turned until it  
8 reaches its loading capacity.

9           Guyed structure. So this would be a  
10 typical cast-in-place situation, where we would  
11 have multiple pieces of equipment. There would be  
12 a piece of equipment to drill the hole, a piece of  
13 equipment to hold up the anchor, the rebar cage  
14 and the anchor that would go in there, and then we  
15 would bring in the concrete truck and cast the  
16 concrete right at location.

17           And this would be a situation if we  
18 encountered rock, and had suitable rock location  
19 shallow enough, we would drill a hole to rock and  
20 pour in a grout solution to anchor that steel rod  
21 right into the rock, as opposed to digging and  
22 placing a mat foundation.

23           This is an example of a pre-cast  
24 concrete foundation for a self-supporting  
25 structure, for an angle structure. And again,

1 that block is poured in a controlled environment,  
2 put on a truck, brought out to site, and then  
3 placed in the hole with a crane.

4 So once the foundations are well under  
5 way, we begin with tower assembly. So this  
6 project is using steel lattice towers, and they  
7 are made up of many pieces, with lots of bolts.  
8 And there is many hours of labour required to put  
9 these towers together.

10 So there is two families. There is  
11 self-supporting structures, and there are guyed  
12 structures, and both certainly have their place in  
13 construction. Guyed towers are a very good  
14 solution when there is not farming required around  
15 them, and self-supporting structures have a much  
16 smaller footprint, and allows for that -- for  
17 farmland activities.

18 This is a picture of a self-supporting  
19 structure. It looks like it's probably a corner  
20 structure, and it's traditionally erected with a  
21 crane. We refer to this as a panelling method.  
22 The panels are assembled on the ground and then  
23 lifted with a crane, and then the pieces are tied  
24 together as they go up, usually with several  
25 cranes.

1                   And this would be a picture, again, of  
2 the -- that same tower being panel-assembled, and  
3 then the tower top would be lifted on and bolted  
4 into place.

5                   So we would also have situations where  
6 it makes more sense to utilize helicopters to do  
7 the very same thing. And in that case, typically,  
8 the towers would be assembled in an assembly yard  
9 and then flown to the tower location.

10                  And in this case, this is a picture of  
11 Bipole III, in Southern Manitoba, where the towers  
12 were flown in two pieces. So the lower portion  
13 was brought out to the foundations, which were  
14 already installed, and the tower was placed, and  
15 then the helicopter would come back with the top  
16 portion, and they would place the top portion on  
17 this base section.

18                  And so once the towers -- there is a  
19 substantial -- enough substantial towers in place,  
20 then we start the stringing operations. And  
21 stringing is essentially running the conductor  
22 from one tower to another. We can string from  
23 dead end to a dead end; typically conductor reels  
24 are in the order of about three kilometres long.

25                  And it requires having a tensioner on

1 one side and a puller on the other. So  
2 essentially what we do is put wheels, or dollies,  
3 on every tower, and we start with a lighter line  
4 than the conductor, and we pull that out, and then  
5 we pull the conductor back.

6 And it is known as tension stringing,  
7 because the conductor stays in the air all the  
8 time, and stays under tension or under load as  
9 we're pulling it across.

10 And then once we reach that point that  
11 where we've pulled the three kilometres out, we  
12 will tie the conductor off and turn the equipment  
13 around and pull the other direction.

14 So we try to minimize the amount of  
15 times that this equipment is moving along. And  
16 essentially, then the conductor gets joined  
17 together.

18 So there is a number of splicing  
19 methods. On most of our recent projects, we have  
20 been using something known as an Implo sleeve.  
21 And what that is is an implosive device that you  
22 put the conductor into, and it's a bit like a  
23 shotgun blast when a series of these goes off, but  
24 it essentially crimps the conductor with an  
25 implosion, and does a very good job of bonding one

1 conductor to the next reel.

2           So along the way, as we are preparing  
3 the foundations, many times the contractors will  
4 require yards to store their material, as they  
5 assemble towers, or they need to place their  
6 equipment. So they will have storage or  
7 marshalling yards along the right-of-way.

8           So what they will typically do is look  
9 for places along the right-of-way that's  
10 accessible. And if they don't have that, they  
11 will also look for suitable locations that are  
12 close to major roadways, that are maybe on private  
13 land, and typically our contractors will arrange  
14 for those kind of yards on their own.

15           So of course many times, when we are  
16 building transmission lines of any length, the  
17 contractor needs to have a place to stay.  
18 Typically they will look for hotels or facilities  
19 within local areas. If those don't exist, the  
20 next stage would be is to provide mobile camps  
21 along the right-of-way. And they -- again,  
22 typically, camps would be located in areas that  
23 are close to the roadways, maybe along the  
24 right-of-way, or maybe in other developed areas,  
25 typically, where we can access power readily.

1                   So I want to talk a little bit about  
2     contracting strategies. So Section 1 is minimal  
3     clearing. It is on our own corridor. So we are  
4     looking to public-tender a construction contract  
5     at this point; it will be one contract for this  
6     section.

7                   And the second section, and that's  
8     from Anola to the international border, there is  
9     some clearing required; I understand it is about  
10    480 hectares. It is new right-of-way, and we will  
11    also be public-tendering this contract.

12                  We learned a lot of things over the  
13    last number of years on Bipole, and one of the  
14    ways that we involved indigenous communities,  
15    First Nations and Metis, on Bipole III was through  
16    some of the contracting strategies.

17                  And our last three major contracts  
18    that went out, we used a contracting method that  
19    set minimum mandatory First Nations and Metis  
20    content targets. So what that means is that the  
21    contract documents had a minimum target set for  
22    Metis and First Nation content. And that was  
23    around employment, subcontracting as well as  
24    training and other opportunities.

25                  So the latest strategies with

1 Bipole III were developed -- these were developed  
2 with the Metis and First Nation groups in the area  
3 of these contracts. And at the end of March 2017,  
4 this year, our employment tracking showed for this  
5 winter, on those specific contracts, that we were  
6 at 70 per cent indigenous employment. And that  
7 sort of summarizes January, February, and March  
8 for these contracts.

9 Now, we have to keep in mind that that  
10 70 per cent was at one point in time, and it was  
11 primarily due to that a lot of the labour force  
12 that went into this winter was in tower assembly.

13 But I think it is a fantastic number.  
14 I think that we are certainly on the right track,  
15 and I think that these are really good ways to  
16 engage First Nations and Metis on these contracts.

17 I believe that we went through a  
18 process of tower assembly training over the last  
19 couple of years, across the province, for  
20 Bipole III; and out of that, we had 87 hires, and  
21 they worked for an average of 98 days on  
22 Bipole III.

23 So we are going to utilize some of  
24 the -- some similar approaches in our publicly  
25 tendered contracts for MMTP that mirror what we

1 did on Bipole III with regards to minimum  
2 standards -- sorry, minimum mandatorys, in First  
3 Nations and Metis content.

4           And this is just a slide on the kinds  
5 of content that we are talking about. So direct  
6 employment, so we are talking about working right  
7 on the job, whether it is tower assembly or  
8 working on installing foundations. There will be  
9 training opportunities, as well as subcontracting  
10 and services such as fuel accommodations,  
11 trucking, and equipment rental.

12           So the way that these minimums are --  
13 I should just -- that's the last slide.

14           So the way these mandatory minimums  
15 are incorporated is that they are part of the  
16 evaluation matrix, when we evaluate contractors.  
17 So we see what they are proposing for indigenous  
18 content, and that factors in to how we evaluate  
19 their tenders.

20           And that's the end of my presentation.

21           MR. MATTHEWSON: Good afternoon,  
22 participants and Commissioners. I would like to  
23 apologize that I will be presenting a couple more  
24 times in this hearing, and I do not have an  
25 Alabamian accent, so I apologize.

1                   So you just heard from Glenn about the  
2 construction process for the project. In this  
3 presentation, I'm going to discuss how Manitoba  
4 Hydro is incorporating into this project the  
5 various mechanisms to reduce some of the potential  
6 effects through routing avoidance, design,  
7 construction, and operation mitigation measures.

8                   So, as you may have heard from me  
9 yesterday, the routing is our primary means to  
10 avoid effects on the people in the environment,  
11 and we included a lot of different criteria, as we  
12 discussed over the last two days.

13                   We considered those sensitive sites,  
14 those locations which are locations or features or  
15 areas, activities or facilities that were  
16 identified by either those field specialists, the  
17 discipline specialists, as we talked about  
18 previously, or First Nations, Metis, and the  
19 public, through their respective engagement  
20 processes.

21                   A sensitive site, it is kind of a term  
22 that we use, could include any valued and  
23 protected vegetation, wildlife habitats, cultural  
24 sites, which are considered heritage or  
25 archeological or spiritual sites, any type of

1 unique terrain that may be on the project, and any  
2 other important locations where route avoidance  
3 would be an effective means of mitigating those  
4 sensitive sites.

5           And then, as Mr. Beddome pointed out,  
6 if we can't avoid something, then we move to the  
7 next step, which is mitigation.

8           So Manitoba Hydro starts mitigation  
9 not at the construction phase; it starts  
10 mitigation at the design stage. So starting with  
11 transmission line routing, of course, and then  
12 engineering details, such as tower type,  
13 foundations, span, and tower locations, not only  
14 serve as a design criteria for engineering  
15 purposes, but also play a key role in the overall  
16 mitigation of effects.

17           So, as an example, for tower type, in  
18 the more intensively developed agricultural and  
19 rural residential areas, those tangent,  
20 self-supporting towers, an example of which is  
21 here, a tangent one. It is in line; also pointed  
22 out in the slide, these are inline ones, and in  
23 the corner one, there is the angle tower.

24           They will be used to limit the  
25 potential effects on farming activities and

1 adjacent residential properties by reducing that  
2 tower footprint to a much smaller footprint than a  
3 guyed structure-type structure.

4           The horizontal configuration of the  
5 conductors -- so we have one vertical and two  
6 horizontal planes there for -- where the  
7 conductors are, is chosen from a design criteria  
8 perspective, for -- as Mr. Swatek mentioned,  
9 separation for live-line maintenance work, and  
10 those types of things; but it also plays a role in  
11 bird-wire collisions.

12           Through various research -- if you had  
13 a tower structure that was more of a vertical  
14 configuration, where you had these conductors all  
15 stacked on top of each other, in a vertical sense,  
16 that is a less desirable structure type, from a  
17 bird-wire collision mitigation perspective, than  
18 the one that Manitoba Hydro has chosen here.

19           The tower foundations, as you saw from  
20 Mr. Penner's presentation, there is a wide variety  
21 of tower foundations that are chosen from  
22 engineering perspective, but also from an  
23 environmental perspective. Those are obviously a  
24 key component to keeping the tower standing, and  
25 are primarily chosen by the underlying

1 geotechnical, the ground conditions that exist.  
2 But there is environmental considerations, such as  
3 the wetlands, and biosecurity, and the proximity  
4 to borrow sources, to get some of those materials  
5 to build some of those cast-in-place foundations.

6           Also the screw piles, as illustrated  
7 in this picture, I've got another picture of a  
8 screw pile installation. You see it is a very  
9 low-impact type of installation, with one piece of  
10 equipment, and a screw pile, and a few staff.

11 Some of the other cast-in-place type foundations  
12 Mr. Penner had a picture of, where he had multiple  
13 cranes and concrete and cement trucks coming in,  
14 so the foundation types are tried to match and  
15 take into consideration some of the environmental  
16 considerations as well.

17           So a screw-pile-type foundation used  
18 in a wetland is certainly a mitigative solution,  
19 to mitigating effects on the wetland, as well as  
20 keeping the tower standing in that type of  
21 environment.

22           Also in design mitigation we look at  
23 tower location, so tower spotting, I referred to  
24 it previously as. It is the placement of the  
25 final location of the tower. While there is --

1 numerous engineering factors are considered, from  
2 the span length, the topography, the clearance  
3 standards that exist that transmission design  
4 engineers have to follow.

5           They also have in their design  
6 software, so while they are working in their CAD  
7 engineering environments, laying out where these  
8 towers go, the construction and environmental  
9 protection plan has developed environmentally  
10 sensitive sites, through the various forms of  
11 feedback that I mentioned before, where the  
12 discipline specialists have identified something,  
13 or it has been identified through First  
14 Nations-Metis or public engagement processes, all  
15 that data that is housed and collected through the  
16 public engagement process and the environmental  
17 assessment development is transferred directly  
18 into those computers of those design engineers.

19           They know exactly where the wetlands  
20 are; they know exactly where the heritage site is.  
21 And they take that into account when designing and  
22 tower spotting.

23           Other sensitive sites, such as the  
24 plant species of conservation concern, the  
25 streams, the river crossings, snake hibernaculum

1 that may be found on the right-of-way; all those  
2 things can be impacted by the tower foundation  
3 site itself.

4 So they try, through the design stage,  
5 to try to mitigate through tower spotting to avoid  
6 those effects. While we've tried to use the  
7 routing of the line to avoid as many as possible,  
8 now we are going to a finer scale, and using the  
9 actual placement of the tower location, and the  
10 foundations for that tower, we are using an  
11 avoidance technique in that process as well.

12 So on the lower left screen here, we  
13 have got an example of transmission lines where --  
14 when we have wetlands in Manitoba, they are very  
15 large; their expanse is huge. The environmental  
16 and design team work together to spot the towers  
17 with as little impact as possible, so trying to  
18 find the best place for placing that tower, to  
19 have as minimal impact on the wetland as possible,  
20 even though knowing that from a design  
21 perspective, they can only stretch the spans as  
22 far as they can. We work with the design  
23 engineers, one on one, to determine where the best  
24 place, from an environmental perspective, that  
25 tower spotting should be.

1                   Another example of tower spotting in  
2 another one of Manitoba Hydro's projects is in  
3 agricultural areas, through the landowner  
4 engagement, there's opportunities to adjust towers  
5 in line of the tower to avoid and accommodate  
6 field access, or unproductive portions of a field,  
7 moving a tower into that portion of a field, if we  
8 can, by adjusting our spans.

9                   In this example of a project, we were  
10 able to spot the towers on each one of the  
11 different parcels between the agricultural fields.  
12 So instead of placing the tower in the middle of  
13 the field, the way these farm management units  
14 were split up on this particular project, we were  
15 able to effectively avoid putting a tower right in  
16 the middle of any farming obstruction by aligning  
17 with those different farm management units.

18                   Span length. While span length of the  
19 area between the towers is driven by, again, a  
20 large variety of those engineering factors, such  
21 as the structure type, and the electricity load,  
22 and clearance above the ground, a project design  
23 that utilizes longer spans has some mitigative  
24 effects. There is less structures on the ground,  
25 which means less ground disturbance, fewer

1 obstacles to navigate around, and reduced  
2 biosecurity risks.

3           In this slide here you will see an  
4 example of a wood pole structure, and you can see  
5 how many wood poles it takes with the shorter span  
6 lengths. It does have a narrower right-of-way,  
7 but there are shorter span lengths, versus a  
8 picture like this, where we are taking across --  
9 clearly spanning across the field with a big steel  
10 lattice structure.

11           So there are advantages to the  
12 different type of structures we chose, and we try  
13 to choose the proper structure type to match the  
14 characteristics, electrical engineering  
15 characteristics of the project, as well as the  
16 environmental considerations that come to play  
17 along the landscape of the final preferred route.

18           Accidents and malfunctions. There are  
19 a variety of potential accidents and malfunctions  
20 during the construction or operations of a  
21 transmission line, so spill response is something  
22 that Manitoba Hydro is -- become very skilled at  
23 doing, just due to the nature of the type of  
24 activities that it takes to construct a  
25 transmission line, with the large amounts of heavy

1 equipment required, that contain the various types  
2 of hydraulic fuels and fuel.

3           So Manitoba Hydro has an extensive  
4 spill response plan in place for both its  
5 construction and operations, as well as each  
6 contractor develops a specific spill response  
7 plan, which identifies hazards, identifies all the  
8 protective equipment, spill response equipment  
9 that must be on site during construction and  
10 operations, when using this equipment.

11           All the explanations about how to  
12 contain the release and secure the site and notify  
13 spill response coordinators that plan the cleanup,  
14 sample the site, all the sampling that occurs, the  
15 disposal of the waste, and the restoration of the  
16 site when a spill does occur.

17           At the stations, there is more spill  
18 kits and spill containment plans, when you are  
19 talking about a larger-type spill, with -- some of  
20 the heavy transformers in our stations contain  
21 thousands of liters of insulating oil to protect  
22 and cool the equipment.

23           There are various strategies within  
24 the station to contain that, if there is a spill,  
25 contain that release, both at the point where the

1 transformer is located and around and within the  
2 perimeter of the station itself, so that if there  
3 is anything that were to spill, there are several  
4 mechanisms in place to contain and minimize the  
5 impact of that spill on the environment.

6 Tower collapse. So we talked a little  
7 bit about the weather study. This is an example  
8 of a tower on our S1/S2 transmission lines that  
9 was taken out by a tornado, so this is the result.  
10 This is a photo of the next morning. So these are  
11 the line maintenance crews that would have  
12 responded to that, if possible, during the night,  
13 if it happened then, or the next day, they would  
14 have come out and started their -- they would have  
15 initiated their emergency response plan.

16 It is possible for a transmission  
17 tower to collapse during construction or  
18 operation, as a result of that extreme weather  
19 that the weather study was trying to characterize,  
20 or mechanical failure, or intentional or  
21 unintentional human interaction with the tower.

22 The transmission line maintenance  
23 department patrols Manitoba Hydro's transmission  
24 infrastructure on an annual basis to look for  
25 deficiencies in the structures, or issues with

1 foundations, to mitigate any type of tower  
2 collapse. And to date, there has been no tower  
3 collapse on an operating transmission line as a  
4 result of a deficiency of the tower structure or  
5 its foundation.

6 Fire. There are a variety of  
7 different mechanisms by which fire can be started  
8 or caused by a transmission line. It can be  
9 caused by the line itself, if there is a  
10 vegetation management -- or, sorry, a vegetation  
11 contact with the transmission line itself, a tree  
12 were to fall on the line, it has the potential to  
13 start a fire. There could be fires started  
14 potentially by equipment that is operating to  
15 construct the transmission line, or to -- in the  
16 operation or maintenance of the transmission line.

17 So Manitoba Hydro has an extensive  
18 fire manual that outlines the different fire  
19 response procedures in the event of these  
20 activities occurring. Manitoba Hydro's system  
21 control centre, which manages and oversees the  
22 transmission line network on a 365-day 24/7 basis,  
23 is made aware of different types of trips or  
24 faults on the transmission line by which crews are  
25 dispatched to investigate the cause of those

1 faults, and if the cause is a fire, then  
2 appropriate emergency response measures and plans  
3 are enacted, as per Manitoba Hydro's corporate  
4 emergency management plan. And they include  
5 involving additional resources from municipalities  
6 and local fire departments on an as-required  
7 basis.

8 Collisions. There are potential for  
9 collisions with transmission towers. This can  
10 happen in a variety of forms. In an agricultural  
11 setting, there is the potential for an  
12 agricultural piece of equipment to collide with  
13 the tower. There is a potential for aircraft  
14 doing low-level flying operations to have a  
15 collision with the conductors.

16 So Manitoba Hydro uses a variety of  
17 different mechanisms to mitigate those. We use  
18 awareness programs with our farming operators to  
19 make them aware of the -- how to operate around  
20 transmission facilities, transmission lines, and  
21 the guy wires, for those facilities that have guy  
22 wires, in agricultural operations, from our  
23 historic transmission lines, so all of our new  
24 lines, we've of course talked about using  
25 self-supporting structures.

1                   For aerial -- potential for  
2 collisions, we use aerial marker buoys on the  
3 transmission wires in close proximity to airports  
4 and aircraft landing areas. We also use -- on the  
5 guy wires of the structures that use guy wires,  
6 there is guy wire shields, that are a  
7 high-visibility guy-wire shield, to make sure that  
8 those guy wires are visible to the public, whether  
9 they are transporting in trucks or snowmobiles and  
10 that sort of thing, as a way to mitigate the  
11 potential for collision.

12                   Of course all of these accidents,  
13 malfunctions, that involve the transmission system  
14 itself, as I mentioned before, there's a system  
15 control centre that is monitoring those  
16 transmission facilities at all times, looking for  
17 any types of anomalies or trips to the system, and  
18 implementing the emergency response plan as  
19 required.

20                   For constructions operations  
21 mitigation, there are numerous environmental  
22 mitigation measures in place that are applicable  
23 to both Manitoba Hydro staff and to the  
24 contractors that are hired to construct and  
25 maintain the infrastructure. We categorize these

1 into a couple of different types of plans, and  
2 there will be a presentation later on --  
3 unfortunately by me again -- that will talk about  
4 the environmental protection program at a later  
5 date, but I will just give you a brief overview.

6 We have construction environmental  
7 protection plans that are driven and designed to  
8 address the construction of a transmission line.  
9 And then there are operational environmental  
10 protection plans that address the operations and  
11 maintenance of those transmission lines. As you  
12 can imagine, there are different types of  
13 equipment and different types of activities being  
14 conducted in those two different environments.

15 Environmental management plans. We  
16 have a wide variety of management plans, and some  
17 examples include the access management plan, as  
18 Glenn had talked about, with those access trails.  
19 All those access trails and access routes to get  
20 to the transmission line are planned in advance,  
21 to the extent we can. There are certainly  
22 scenarios where a particular wetland does not  
23 freeze solid, and we may need to create a new  
24 access trail to bypass an area that isn't  
25 freezing, to allow access for the construction or

1 the maintenance of it.

2 We have an integrated vegetation  
3 management plan that I will be talking about a  
4 little bit later this afternoon, as well as  
5 rehabilitation and invasive species management  
6 plans, all to deal with rehabilitation of the  
7 construction sites, and management of invasive  
8 species. Those are just some examples of the  
9 variety of management plans that I will talk about  
10 in the environmental protection program  
11 presentation.

12 I'm just going to go through some key  
13 mitigation measures that we have for the variety  
14 of different valued components that you will hear  
15 about in the next few days, in the biophysical and  
16 socio-economic panels.

17 Proposed and existing protected areas.  
18 Large tracts of boreal forest and wetland have  
19 been avoided through routing. However, there are  
20 wildlife and wildlife habitats potentially  
21 affected by the project, and Manitoba Hydro  
22 utilizes a variety of measures to mitigate these  
23 potential effects.

24 So, as Ms. Bratland talked about with  
25 migratory bird breeding windows, we use reduced

1 risk timing windows to consider our works when  
2 designing and scheduling our activities during the  
3 period when wildlife species are sensitive to  
4 destruction, because of the sensitive life cycle,  
5 such as the bird breeding season, or calving for  
6 moose or deer.

7 Bird diverters will be installed on  
8 sky wires in areas of high collision risk  
9 potential. So Manitoba Hydro has done studies on  
10 the final preferred route where these high  
11 collision risk potential areas are for bird-wire  
12 collisions. As I was asked previously about  
13 flyways, we have done research with respect to the  
14 FPR on where the high collision risk exists, and  
15 we have a strategy in place to mitigate those  
16 potential effects.

17 We also have a wide variety of  
18 pre-construction surveys for wildlife features  
19 along the FPR, such as mineral licks, or stick  
20 nests, or snake hibernaculums, that will identify  
21 and mitigate -- will implement mitigation measures  
22 such as the tower spotting, or applying buffers to  
23 those features.

24 So some of those activities are  
25 ongoing and are occurring as I speak today, and

1 collecting that pre-construction information on  
2 the exact final preferred route.

3 Fish and fish habitat. In Manitoba,  
4 it is virtually impossible to route a transmission  
5 line to avoid a stream or river crossing. We are  
6 blessed with a wide variety of riparian and  
7 wetland habitats. So Manitoba Hydro, as we have  
8 implemented -- seen in some of the pictures that  
9 Glenn showed, these riparian buffers will be  
10 applied to these riparian habitats, which include  
11 those streams and rivers and lakes and wetland  
12 areas within the project development area, in  
13 which those shrubs and herbaceous vegetation will  
14 be retained.

15 So an example of that is -- while  
16 Glenn had some nice pictures, on a smaller scale,  
17 this example illustrates some of those mitigation  
18 measures. We have this -- what's called a  
19 seven-metre no-machine zone, which is directly  
20 adjacent to a wetland or a river or a stream,  
21 where a piece of equipment such as the feller  
22 buncher can reach in -- and that's where the seven  
23 metres come from; it is the distance by which the  
24 feller buncher can reach in to cut a tree, pick it  
25 up, turn the equipment around, and place it out of

1 the way. So no machine actually has to enter the  
2 zone; it reaches in and cuts the tree.

3           Sometimes those machine zones are  
4 handled by hand cutting, in areas of steep slopes.  
5 Outside of the seven-metre no-machine --  
6 machine-free zone, we have another 23 metres of  
7 management zone, by which we use a different  
8 clearing technique to clear the right-of-way.  
9 That could be something simply like a feller  
10 buncher or a hand cutting, something that has a  
11 lower disturbance, versus a shear-blade type of  
12 application, where there is a risk of disturbing  
13 the soil. We really want to be sensitive to these  
14 type of environments.

15           This is an example of the river  
16 crossing at the Assiniboine River.

17           The other crossing here -- so another  
18 thing that we take into consideration is erosion  
19 and sediment control along some of these wetland  
20 areas. This is an example of a wetland area in  
21 the wintertime, and these are erosion control  
22 sedimentation blankets, as well as branch debris,  
23 in order to stabilize the bank, to make sure there  
24 is -- minimize any potential for soil erosion  
25 during the spring runoff.

1                   Vegetation of wetlands. So with those  
2 large expanses of wetlands in Manitoba, we've  
3 timed our works in those wetlands to occur under  
4 frozen ground conditions, or when there is other  
5 mitigative measures, such as construction matting  
6 can be put in place.

7                   Again, in the wetlands and around  
8 vegetation, we can apply those riparian buffers  
9 around those wetlands, that I talked about.

10                  We also have in this picture -- this  
11 is another example of a buffer on a stream  
12 crossing. You can see that there is a centre-line  
13 trail that did need to pass through the riparian  
14 area; we do have to get across, to string those  
15 conductors. But you can see the different  
16 vegetation that's retained within the -- the  
17 low-growing vegetation that's retained.

18                  This picture here is an example of a  
19 buffer that's been left behind, around a site of  
20 species of conservation concern. So they've used  
21 a different type of clearing. Eventually these  
22 taller trees will be hand-felled out of the way,  
23 but the smaller plant that was being protected is  
24 protected throughout construction and operations.

25                  Also from vegetation, as Mr. Stuart

1 will be talking about, about biosecurity, one of  
2 the things that we do for vegetation and wetlands  
3 in more natural environments is cleaning of the  
4 equipment before it arrives on the construction  
5 site, making sure that we are not bringing any  
6 noxious and invasive weeds into more undisturbed  
7 natural areas.

8                   Land and traditional resource use.  
9 Maintaining access during construction for  
10 resource users is an important thing that we hear  
11 a lot through the First Nations and Metis and  
12 public engagement processes: We know there is  
13 construction activity happening, but we still want  
14 to carry out our traditional practice; how are you  
15 going to accommodate that, so that we can still go  
16 and do our hunting activities and use trails that  
17 Manitoba Hydro may be using as access routes for  
18 the construction?

19                   So this is an example of an access  
20 trail that had -- a trappers' snowmobile trail  
21 that they used for access to trapping areas. So  
22 those are signed, and the debris is made sure to  
23 be kept clear of those areas, so that we aren't  
24 introducing any type of safety hazard or  
25 infringing at all on the use of that access trail.

1 Existing access roads and trails is  
2 used as much as possible in the development of  
3 this project. We have developed an access  
4 management plan that has less than, I believe,  
5 500 metres of new access to be developed for the  
6 construction of the project. We use a lot of  
7 existing access trails and roads, due to the  
8 nature of where the final preferred route is  
9 routed.

10 Some of these examples -- these are  
11 some of the signs that are used to warn  
12 contractors about entering an environmentally  
13 sensitive site area. This one is about no  
14 equipment being allowed, other than what is on the  
15 trail.

16 One of the things that we constrain in  
17 the right-of-way in certain areas where there is  
18 vegetation, or traditional use areas, we constrain  
19 the equipment to ensure they stay only on the  
20 trail. After the area is cleared, the equipment  
21 can't just drive anywhere they want along the  
22 right-of-way; they are constrained to that one  
23 centre-line trail.

24 As we go through, as the traditional  
25 knowledge studies come into Hydro's possession,

1 and the information and the knowledge of the  
2 specific sites that come with that information, we  
3 can start to implement some of those site-specific  
4 mitigation measures, such as maintaining the  
5 buffer of trees between a trail and a site, a  
6 trail and the transmission right-of-way, to kind  
7 of keep the line of sight reduced as much as we  
8 can, using those existing access trails.

9           This is a photo of an area around the  
10 Bipole III project, where we have been working  
11 with community members to map and understand the  
12 effects of the transmission line clearing process  
13 on blueberries. And prior to the clearing of this  
14 area, we actually met with the community members,  
15 talked about the different clearing methods that  
16 we could potentially use in this area, and  
17 discussed with them the benefits and drawbacks of  
18 the different methods. And they were interested  
19 in increasing blueberry production, so we  
20 accommodated by doing a particular clearing method  
21 in that area that helped -- we hope helped  
22 increase the blueberry production along the  
23 right-of-way.

24           And that's some of the ongoing  
25 monitoring that we're doing with communities, to

1 go back to that site on an annual basis, to  
2 measure that -- that experiment.

3 Cultural and heritage resources. So a  
4 cultural and heritage resource protection plan is  
5 an integral part of Manitoba Hydro's environmental  
6 protection program. We have filed the draft plan  
7 for the Commission to review, as well as other  
8 indigenous communities, and get feedback on that  
9 draft.

10 Manitoba Hydro respects that intrinsic  
11 value of those cultural and heritage resources to  
12 all the peoples in Manitoba, and the plan sets out  
13 Manitoba Hydro's commitments to safeguard cultural  
14 and heritage resources, as it has a protocol and a  
15 component to the document. So the document  
16 outlines all the different steps by which  
17 construction will stop work if they identify any  
18 type of heritage resource; we'll talk about the  
19 types of mitigation measures -- or, sorry, the  
20 monitoring that goes into investigating these  
21 potential sites, that has been done as part of the  
22 environmental impact statement, as well as stuff  
23 that will happen -- investigations that will  
24 happen along the FPR as part of pre-construction.

25 We have a protocol document in place

1 to work with each community to determine key  
2 contact people, the areas of -- if they have any  
3 areas of specific interest, and any further  
4 information about cultural heritage resources.

5           So it is important to have a protocol,  
6 and sometimes we've -- many communities have  
7 filled out, on the Bipole III project, this  
8 protocol, and some of them are inherently part of  
9 our community liaison process, where we  
10 communicate with the local communities about a  
11 heritage -- a previously undiscovered heritage  
12 resource, so that appropriate measures can be put  
13 in place from obligations under the Manitoba  
14 Heritage Resources Act, as well as respecting the  
15 cultures and traditions of indigenous peoples.

16           So whenever we discover something like  
17 that, we try to have a process in place so that we  
18 have a quick access to people that can come to the  
19 site from the communities, and discuss the find,  
20 and what is there, that works with our project  
21 archeologist, to assess what the potential site is  
22 and determine some of the mitigation measures that  
23 could be implemented along that site to protect it  
24 from further disturbance.

25           Through construction, and all the way

1 through operations, these are maintained in that  
2 operational environmental protection plan.

3           Agriculture was one of those key VCs.  
4 As you are aware, the final preferred route does  
5 go across numerous acres of agricultural land, and  
6 Manitoba Hydro has developed a very extensive  
7 agricultural biosecurity policy to prevent the  
8 introduction and spread of diseases, pests, and  
9 plants, and Mr. Stuart is going to go into much  
10 greater detail than that in the next presentation.

11           Some of the other things we do is,  
12 again, restricting the travel of vehicles to the  
13 access -- the centre-line route, where feasible.  
14 And then, as Mr. Ireland will talk about, is some  
15 of the compensation programs that Manitoba Hydro  
16 has in place for damage to infrastructure such as  
17 tile drainage or crops from the construction or  
18 maintenance activities. And so there will be more  
19 information on that.

20           That's kind of a high-level overview  
21 of some of those key mitigation measures. You  
22 will hear about some more of them throughout the  
23 various panels coming over the next few weeks, and  
24 there is certainly great details in the  
25 environmental protection program that I will

1 discuss as well.

2 So I will pass it to Mr. Stuart.

3 MR. STUART: Thank you,

4 Mr. Matthewson.

5 Commissioners, participants, thank you  
6 very much for your attention this afternoon. My  
7 name is Alec Stuart, and I'm the manager of the  
8 Property and Corporate Environment Department in  
9 Manitoba Hydro. And one of my responsibilities is  
10 for agricultural biosecurity, so this is the topic  
11 of my presentation this afternoon.

12 What I would like to talk to you about  
13 is to start off with a little bit, if you will, of  
14 a sense of where this emerged from, how Manitoba  
15 Hydro has managed biosecurity and how we developed  
16 our procedures and our approach to managing  
17 agricultural biosecurity.

18 I will talk a little bit about our  
19 specific construction procedures, so how we take  
20 that higher-level commitment and operationalize  
21 it, if you will, or put it into action on the  
22 field.

23 I would like to introduce you to the  
24 monitoring program that we use on the Bipole III  
25 project, and I will conclude by talking a little

1 bit about some of the lessons that we've learned  
2 from past experience, again, largely from the  
3 Bipole III project.

4           So, briefly, agricultural biosecurity  
5 was first raised as a concern in the context of  
6 the Bipole III project by, in some cases,  
7 individual landowners; other cases, stakeholder  
8 groups.

9           So Manitoba Hydro made a commitment to  
10 developing a policy and procedures to actually  
11 manage this risk. So we have a corporate policy  
12 which essentially states that any group within  
13 Manitoba Hydro that's working on agricultural land  
14 has to develop procedures to both identify and to  
15 manage potential biosecurity risk.

16           We developed our procedures in a  
17 number of ways. We looked at industry best  
18 practices. You know, we are not the only utility  
19 that works in agricultural lands, so we did reach  
20 out to others in our industry to see how they  
21 managed these issues.

22           We also spoke to stakeholders.  
23 Manitoba is fortunate to have a number of good  
24 stakeholder groups for the agricultural industry,  
25 and we spent a fair bit of time with them, looking

1 at specific concerns for their industry, what  
2 their members and stakeholders felt, and reviewing  
3 our procedures with them. Have we met what we  
4 needed to do? Have we addressed the concerns that  
5 are out there?

6 We also took essentially a risk-based  
7 approach to this, so we take a number of factors  
8 into consideration. This being Manitoba,  
9 obviously the time of year can have a significant  
10 impact. Middle of January, with three or four  
11 feet of snow, is a much lower risk, for example,  
12 than, say, late April or early May, when the  
13 fields are muddy.

14 We look at soil conditions. We look  
15 at, for example, the type of work being done. Is  
16 this a large construction project, like the  
17 Manitoba-Minnesota Transmission Project, or is it  
18 simply a meter-reader entering a property to read  
19 a meter? So we have to consider that type of work  
20 being done as well. And we look for the presence  
21 of known pathogens, or pests: Is there a disease  
22 such as clubroot confirmed on the property or not?

23 So we look at all those kinds of  
24 issues through our procedures. At the end of the  
25 day, the goal is to prevent the movement of soil,

1 manure, pathogens, invasive species, what have  
2 you, between properties. If it is on a property,  
3 it should stay on a property, and not be taken to  
4 the neighbours'.

5 We also tried to build in flexibility,  
6 to address perhaps producer-specific or very  
7 site-specific concerns as well. And we have to be  
8 flexible to adapt to changing conditions. I think  
9 as we saw in the last winter, we had days in even  
10 January and February where the temperature would  
11 vary greatly within a few days. One day you have  
12 nice frozen-solid conditions; the next day it is  
13 muddy and wet out there.

14 So, again, our procedures have to be  
15 flexible and able to adapt to these conditions.

16 So, to look at the construction  
17 procedures, I will take us back to the Bipole III  
18 project. And one of the ways of managing  
19 agricultural biosecurity risk on Bipole III was to  
20 look at the properties, the agricultural  
21 properties, before construction begins, to  
22 essentially determine what that risk level is of  
23 the property.

24 One of the ways that we did this was  
25 that we sampled each quarter-section, as an

1 example, for the presence of clubroot. So we  
2 could say, with a great deal of certainty, that  
3 there was or was not clubroot present on any  
4 individual property.

5 We also spoke to producers and  
6 discussed their individual concerns, such as, for  
7 example, the presence of livestock; application of  
8 manure on their fields. Even more specific  
9 concerns, that some specialty producers, such as,  
10 for example, a pedigreed seed producer might have.

11 At the end of the day, though, the  
12 basic procedure is to ensure that vehicles enter  
13 and exit sites clean and are disinfected. And the  
14 same would apply to equipment and to footwear as  
15 well.

16 We also, on Bipole, brought in the  
17 third-party monitoring program, to help track  
18 compliance and to give our stakeholders assurance  
19 that we were managing biosecurity in an  
20 appropriate way, and I will speak to that in  
21 greater detail over the next few slides.

22 Then, as I touched on a little  
23 earlier, we had to ensure that our construction  
24 procedures are flexible enough to deal with  
25 changing conditions. Our procedures are designed

1 for use in frozen conditions and in wet  
2 conditions. Both of those, you have the same  
3 goal; you just have different methods of reaching  
4 it. And again, you have to be flexible, with our  
5 conditions here, to be able to adapt very, very  
6 quickly.

7 I do want to touch on a couple of  
8 points that Mr. Matthewson raised in his  
9 presentation as well, and that -- although we have  
10 construction procedures to manage that risk, we  
11 can also do our best to reduce the risk, through  
12 perhaps engineering or design procedures as well.

13 We spoke a little bit about the  
14 different kinds of foundations, in Mr. Penner's  
15 presentation. As an example, a screw pile  
16 foundation would present less agricultural  
17 biosecurity risk than, say, a cast-in-place  
18 foundation would. A cast-in-place foundation may  
19 require multiple trips onto site by a number of  
20 concrete trucks; it may require more workers over  
21 a period of time, whereas installing a helical  
22 screw pile will result in fewer trips on the  
23 field, and therefore less chance of spreading  
24 soil. So we can build additional mitigation  
25 measures such as this into our work on sites.

1                   So I want to take you now to talk a  
2 little bit about the monitoring program on the  
3 Bipole III project. And this is something that we  
4 introduced in the fall of 2016 as a response,  
5 largely, to stakeholder concerns about  
6 biosecurity.

7                   So Manitoba Hydro has committed to  
8 agricultural biosecurity and to managing the risk  
9 of it. We have developed a set of procedures for  
10 use on projects, and on other work, that manages  
11 the risk. In addition, on Bipole III, we also  
12 took an additional step of retaining an  
13 independent third party to essentially monitor our  
14 compliance. Are we doing what we say we're doing?  
15 We have these procedures; are they being followed?  
16 If not, what are the issues? What are the  
17 corrective actions to address that?

18                   So we worked with our monitors to come  
19 up with appropriate methods of sort of managing  
20 and ensuring compliance. One of the first things  
21 they did was they suggested a series of  
22 essentially grades of cleanliness, if you will,  
23 starting at Grade 1, which would be considered a  
24 failure -- or in biosecurity, noncompliance -- all  
25 the way to Grade 4, which would be a pass.

1                   So Grade 1 and 2, Grade 1 would  
2 essentially be you've made virtually no effort to  
3 clean. You've entered a site, or tried to enter a  
4 site, covered in mud.

5                   Grade 2, you've made an effort.  
6 You're partway there, but you've not fully managed  
7 the risk, and further cleaning is required. You  
8 might still have some mud, you might have some  
9 plant material present, and you need to take  
10 additional steps to address this.

11                  A Grade 3 is the first grade of a  
12 pass, where you've cleaned it; you've done your  
13 best; you've mechanically cleaned it, potentially,  
14 and anything left has been disinfected thoroughly,  
15 with products such as Virkon or Synergize, which  
16 we use on sites where livestock may be present or  
17 where manure has been spread.

18                  And then Grade 4 is a pass. Again,  
19 your vehicle, your footwear, your equipment, it's  
20 clean; there is nothing present on there. That's  
21 the expectation when you enter the site.

22                  One of the challenges, though, on this  
23 one, is that we all may have different definitions  
24 of what constitutes "clean". I think anyone who  
25 has got children would agree that their definition

1 of "clean", and yours as a parent, may be very,  
2 very different; at least that's been my  
3 experience.

4 I'm sorry, I've skipped a slide here,  
5 so I will touch on the cleaning in a second.

6 As a part of the monitoring work, one  
7 of the key pieces of this is the reporting. And  
8 we do have weekly biosecurity monitoring reports  
9 posted on our website. So we keep about two  
10 months' worth on there; we have additional ones  
11 available. If you'd like to reach those,  
12 certainly just contact us, and we'll be happy to  
13 share them.

14 And what this does is this tells  
15 people, this is how many trips we had on and off  
16 sites, and these are the number of  
17 non-compliances, or failures, if you will.

18 So you can see on the chart, here, the  
19 monitors have identified, again, Grades 1 through  
20 4. Grade 1 and 2 two are in red, and Grade 3 or 4  
21 are in green.

22 Out of the total trips on and off  
23 site, you had 28 pedestrians entering and 32  
24 exiting. At first glance, it may seem a little  
25 strange, but some pedestrians may have entered

1 through a vehicle and then gotten out of the  
2 vehicle and walked off, so the numbers don't  
3 always add up exactly.

4           And this demonstrates that they  
5 entered -- you had 28 pedestrians who fully  
6 complied. They are all Grade 3. Their footwear  
7 was clean, disinfected, and it passed muster.

8           Leaving, out of the 32 who left, you  
9 had 31 who again passed muster, had clean and  
10 disinfected footwear, and one individual who was  
11 assigned Grade 1 upon exiting, which could mean  
12 that they made no effort at all, or potentially  
13 that they decided to walk around the access point  
14 and leave through the field, which would be  
15 automatically assigned a Grade 1 at that point  
16 right there.

17           This is the level of detail, again,  
18 that we post on the website from the monitors.

19           So to touch again on the issue of  
20 cleanliness, which I seem to have skipped through  
21 earlier, the monitors also developed a series of  
22 essentially graphic aids to help us determine --  
23 "You know what? We all agree this is a Grade 1",  
24 or "We all agree this is a Grade 4."

25           They went and found pictures of what

1 they considered to be a Grade 1 failure, and these  
2 are the criteria that they use when they're  
3 working with our staff and contractors on sites.

4           So again, this is understood to be a  
5 Grade 1; essentially, you've made no effort, and  
6 clearly it shows on the picture here. The  
7 vehicles in question all have considerable amounts  
8 of mud or soil, plant material on them, and would  
9 constitute a Grade 1 fail.

10           At the same time, they also developed  
11 pictographs for the higher grades as well. So  
12 this would be considered clean. Again, this is  
13 the expectation, when you come on the site, you  
14 should be clean like this; you shouldn't have  
15 signs of soil or seeds or debris present on  
16 surfaces, as much as possible, keeping in mind  
17 that -- you know, sometimes as you're traveling to  
18 site, there are issues such as road dirt. But for  
19 the most part, this is the expectation as you  
20 enter the site right here.

21           So to conclude here, I do want to talk  
22 a little bit about some of the lessons that we  
23 learned on our past project, and from our  
24 experience, that we do intend to apply on the  
25 Manitoba-Minnesota Transmission Project.

1 I think one of the key ones here is to  
2 implement the project directly from the start. On  
3 Bipole III, we learned a lot; we learned an awful  
4 lot about how to manage biosecurity risk and to  
5 manage it appropriately. But we learned so  
6 through the course of the project. So in some  
7 cases, such as the monitoring program, some  
8 elements were brought in after work had started,  
9 as a response to concerns that had been raised.

10 Obviously we want to maintain  
11 flexibility and adaptability, but at the same  
12 time, we do intend to bring these in right from  
13 the start of the project. So biosecurity is  
14 brought in, for example, as a concern in the  
15 landowner liaison program. The liaison work is  
16 our first opportunity to engage with landowners,  
17 and one of the questions raised as a discussion of  
18 biosecurity risks, right from that first point, we  
19 can begin to identify those specific risks and  
20 work to mitigate them.

21 We also learned the value of carrying  
22 out this pre-construction sampling. Again, on the  
23 Bipole III project, Manitoba Agriculture  
24 recommended clubroot sampling. And this was also  
25 done partly to help them build up their knowledge

1 and their understanding of the spread of pathogens  
2 too. So we carried out the sampling in all the  
3 quarter-sections, and we shared the data with the  
4 Province and with landowners as well.

5           Again, the value in that is that it  
6 told us exactly where clubroot was or wasn't  
7 present, and allowed us to manage the risk  
8 appropriately.

9           We can also ensure on MMTP that  
10 biosecurity is fully built into the construction  
11 contracts. Again, with Bipole, by the time we  
12 implemented the procedures, the construction  
13 contracts had been let. And we were lucky enough  
14 to work with some good contractors, who were  
15 flexible, and were able to build this in very  
16 appropriately. But again, it is always easier  
17 right from the beginning. So this provides us  
18 with a good opportunity to do so.

19           And again, to have third-party  
20 monitoring right from the start of construction,  
21 so right when those first shovels hit the ground,  
22 the monitors should be there, watching and  
23 observing, and ensuring compliance as well.

24           Again, that's an effort to help manage  
25 potential landowner concerns about biosecurity,

1 and has been proved to be quite effective in  
2 Bipole III.

3 Thank you very much for your time.

4 THE CHAIRMAN: I notice -- is there  
5 one more presentation as part of this component?  
6 Two more.

7 I think, then, we are going to call  
8 it, because that's going to take significantly  
9 more time than the last one. So I think we will  
10 call it there.

11 Yes, we have one question.

12 MS. PASTORA SALA: Thank you,  
13 Mr. Chair. It's Joelle Pastora Sala, for the  
14 record.

15 I just wanted to ask, and just to  
16 clarify, I see that there are of course overlaps  
17 with the environmental protection plan discussion,  
18 which will be next Thursday, as I understand it.  
19 I just -- in terms of preparing for Monday, I  
20 wanted to know -- I know, Mr. Matthewson, you will  
21 be back on Thursday for the presentation; are we  
22 expected to bring all the questions on the issues  
23 that you bring forward in this discussion on  
24 Monday? Or will it also be available for  
25 questions on next Thursday?

1                   MR. MATTHEWSON: I think, depending on  
2 the nature of the questions, I think maybe some of  
3 those would be answered by my presentation next  
4 Thursday. So it may -- you can certainly ask some  
5 questions about the material I presented today, on  
6 Monday; but there will be more details about the  
7 environmental protection program as a whole, and  
8 all the other mitigation measures and plans and  
9 things in much greater detail on the Thursday  
10 presentation. I may have to defer some of your  
11 questions until the Thursday.

12                   MS. PASTORA SALA: Thank you.

13                   THE CHAIRMAN: Okay. Well, thank you.  
14 Thank you for the presentations, and we will see  
15 you all Monday morning at 9:30. Are there any  
16 documents to file?

17                   MS. JOHNSON: Yes, there are. MR 032  
18 is the first part of this presentation; 33, the  
19 second part; and 34, the third part.

20                   I will just remind you to take all  
21 your things with you, because we no longer have  
22 this room, and we will be at the Pan Am Room in  
23 the old part of the Convention Centre on Monday.

24                   (EXHIBIT MH-32: First part of  
25 presentation by Construction operation

1 and property panel)

2 (EXHIBIT MH-33: Second part of

3 presentation by Construction operation

4 and property panel)

5 (EXHIBIT MH-34: Third part of

6 presentation by Construction operation

7 and property panel)

8 THE CHAIRMAN: All right. Thanks for

9 that Cathy.

10 Thank you all.

11 (Adjourned at 4:30 p.m.)

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Cecelia Reid and Debra Kot, duly appointed  
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Cecelia Reid  
Official Examiner, Q.B.

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Debra Kot  
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