

MANITOBA CLEAN ENVIRONMENT COMMISSION

MANITOBA-MINNESOTA TRANSMISSION PROJECT

VOLUME 1

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Transcript of Proceedings  
Held at RBC Convention Centre  
Winnipeg, Manitoba  
MONDAY, MAY 8, 2017

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## CLEAN ENVIRONMENT COMMISSION

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Reg Nepinak - Commissioner  
Ian Gillies - Commissioner  
Cathy Johnson - Commission Secretary  
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1 MONDAY, MAY 8, 2017

2 UPON COMMENCING AT 9:30 A.M.

3

4 THE CHAIRMAN: Good morning everyone.  
5 We'll get started, and we will be starting at 9:30  
6 every morning.

7 So I'd like to welcome all our  
8 participants, to the representatives and  
9 proponents of the project, and Manitoba Hydro, and  
10 to other people present today.

11 My name is Serge Scrafield. I'm the  
12 Chair of the Clean Environment Commission and I'm  
13 also Chair of the panel that will be conducting  
14 the review of the Manitoba-Minnesota Transmission  
15 Project.

16 I would now like like to ask the  
17 members of the panel to introduce themselves and  
18 we'll start on my right.

19 MS. STREICH: Laurie Streich.

20 MR. NEPINAK: Reg Nepinak.

21 MR. GILLIES: Ian Gillies.

22 THE CHAIRMAN: Thank you. The staff  
23 present today include the Commission secretary,  
24 Cathy Johnson. That's the person you go to if  
25 there are issues to discuss. Our Commission's

1 administrative assistant is Cheyenne Halcrow, who  
2 is sitting at the back of the room and you may  
3 have met her on the way in. Our legal counsel is  
4 Mike Green, also sitting over to my left. And  
5 also at that same table on the left is Bob  
6 Armstrong, who is our writer.

7 I would also like to ask that you  
8 silence the ringers on your phones. And the  
9 participants, when you're speaking or questioning,  
10 you will have to come up to the mic at the small  
11 table here in front of me. And please remember to  
12 turn on the mics when you speak so that our  
13 transcriber, who is sitting on the far, at least  
14 my far right near the wall there, so that they can  
15 understand and record everything that's being  
16 said. I think you are all aware that we do  
17 transcribe the entire process.

18 Most of the hearings, as you know,  
19 will be here in Winnipeg with a couple of sessions  
20 in La Broquerie. The transmission project is, for  
21 the most part, located in east Manitoba, and we  
22 hope to hear from the residents of that area and  
23 their various communities that make up the area  
24 over the course of the next four weeks.

25 I would like to also acknowledge that

1 the project is within Treaty 1 territory. I  
2 believe the whole project is, and that's home to a  
3 number of First Nations. Several of those  
4 communities are participants in this process. And  
5 we will be hearing from them.

6 The area is home as well to members of  
7 the Metis community, who will be represented by  
8 the Manitoba Metis Federation and, of course,  
9 we'll also be hearing from them over the course of  
10 the next few weeks.

11 Is there anyone here who would like to  
12 do an opening prayer before we continue? All  
13 right. We'll certainly leave that open as a way  
14 to start other days of this process. So if there  
15 is someone who would like to do it later in the  
16 week, that would be fine.

17 In terms of a little background, we're  
18 here today because on December 31st, 2015, the  
19 Minister asked us to hold public hearings to  
20 review the Environmental Impact Statement prepared  
21 by Manitoba Hydro for the Manitoba-Minnesota  
22 Transmission Project.

23 We are guided by amended Terms of  
24 Reference issued to us by the Minister on  
25 February 15th, 2017. Under those Terms of

1 Reference, we are to review the Environmental  
2 Impact Statement, hold public hearings, and  
3 prepare and file a report with the Minister. This  
4 report is to outline the results of the  
5 Commission's review, what we heard, and to provide  
6 recommendations for the Minister's consideration.  
7 In particular, the Minister asked us to recommend  
8 whether an environmental licence should be issued  
9 to the proponent, and if so, to recommend any  
10 conditions that should be included in that  
11 licence.

12           The Minister also requested that we  
13 include consideration of the effect on First  
14 Nations, Metis, and other Aboriginal communities  
15 of any changes to the environment. And we will be  
16 doing that, of course.

17           And that's why we're here today, the  
18 first day of our hearings. These hearings will go  
19 on now for up to four and a half weeks. We have  
20 hearings in Winnipeg this week and next week. The  
21 third week we will split between Winnipeg, where  
22 we will hear presentations from participants  
23 seated at the tables here in the room -- and we  
24 will spend part of the week in La Broquerie, where  
25 we will hear from residents of those parts of the

1 project area that are further from the city.

2                   During the final week, or up to a week  
3 and a half back in Winnipeg, we will hear the  
4 remaining presentations, a rebuttal from Hydro, as  
5 well as closing arguments from all participants  
6 and the proponent.

7                   Anyone who has an interest in this  
8 project is welcome to attend these hearings and  
9 also welcome to make an oral statement. There is  
10 no requirement that you make a statement, but if  
11 you wish to do so, we ask that you just let  
12 Cheyenne Halcrow, who I introduced at the start of  
13 my remarks and who is at the reception table when  
14 you entered, if you would let her know so that we  
15 are aware that you wish to speak. The oral  
16 statement is a chance for you to give those,  
17 present your personal knowledge, your views, as  
18 well as any concerns which you might have about  
19 the project.

20                   I would note that you could give your  
21 oral statement in indigenous language, if you  
22 wish. We would ask, though, that you have someone  
23 who can translate for you, for the benefit of  
24 those in this room and on the panel who may not  
25 speak the language.

1                   We would also welcome statements in  
2 French. We ask only that you let us know at least  
3 a few days in advance so that we can arrange for a  
4 translator.

5                   Members of the public who make an oral  
6 statement will not be subject to questioning. The  
7 panel may ask for clarification, but only if there  
8 are one or two things that we have not understood.  
9 But generally there will be no questioning of  
10 members of the public who make presentations.

11 I would also note that if there is anyone in your  
12 community or generally from the area who is unable  
13 to attend our sessions, or if there is someone who  
14 doesn't really want to speak in public but they  
15 want to let the panel know their views, they are  
16 more than welcome to provide us with a written  
17 submission. A written submission may be by way of  
18 a letter, or an e-mail, or they can even go to our  
19 website and send their comments to us directly.

20 The panel will read all these written submissions  
21 that are received before noon on May 29th. Those  
22 written submissions will become part of the record  
23 and carry the same weight as if the party were  
24 here and made them in person. So we more than  
25 welcome written submissions and they will be

1 viewed equally strongly by the panel members.

2 For the formal participant groups, we  
3 have a schedule and an order of appearance for  
4 opening statements, closing statements and  
5 questioning. That is what we will be following  
6 and I believe you are all aware of that.

7 All of our hearings are recorded, as I  
8 said earlier. This is a requirement of the  
9 Environment Act. Transcripts are produced very  
10 quickly. By going to our website you can read  
11 copies of the verbatim transcript of whatever we  
12 heard on previous days, the day before and all the  
13 previous days.

14 We will be starting our morning  
15 sessions promptly, as I said, at 9:30, and our  
16 afternoon sessions also promptly at 1:30. So be  
17 ready to go at those times. We will include a  
18 short break in the morning and another one in the  
19 afternoon, and we'll do that at times that are  
20 opportune for breaks in the schedule.

21 Again, I just want to remind you to  
22 use your microphone when you speak, that will be  
23 up at this small table in front here, and to  
24 identify yourselves so that our transcriber can  
25 properly attribute your remarks.

1 I think that's all I have to say by  
2 way of opening comments and I would now like to  
3 turn to Tracey Braun, Director of Environmental  
4 Approvals, to provide an overview of the  
5 provincial licensing process. Thank you, Tracey.

6 MS. BRAUN: Thank you, Mr. Chair.  
7 My name is Tracey Braun, I'm Director of the  
8 Environmental Approvals Branch for Manitoba  
9 Sustainable Development. And the purpose of my  
10 brief presentation today is really to provide a  
11 summary of the regulatory process to date. It's  
12 also to provide a regulatory segue to the hearings  
13 that are starting today.

14 Here's the outline of what I'm going  
15 to talk about. I'm going to start with a very  
16 high level review of the jurisdiction that covers  
17 this project, the Manitoba to Minnesota  
18 transmission line. And I'm going to give a  
19 summary of key regulatory milestones that have  
20 happened to date and then what's ahead.

21 This project is an international power  
22 line, and as such it is federally regulated by the  
23 National Energy Board Act and the Canadian  
24 Environmental Assessment Act of 2012. The NEB  
25 Act, however, does allow for a provincial process

1 to take precedent, if it's done through an order  
2 in council, and that is what the proponent has  
3 chosen to do. And the OIC has been completed.  
4 And the reasoning behind that is we felt that this  
5 would better facilitate public participation in  
6 the hearing portion of the process.

7           The provincial legislation is the  
8 Manitoba Environment Act. And in the classes of  
9 development regulation, this project is a Class 3  
10 development, which means it is a Ministerial  
11 licensing decision under Section 12 of the  
12 Environment Act. And in this particular case, as  
13 the Chair has mentioned, the Minister has asked  
14 for the Clean Environment Commission to hold  
15 hearings for the project.

16           Because this is a federally regulated  
17 process, the process that we follow here in  
18 Manitoba must meet all of the requirements of the  
19 federal process as well. For Manitoba, a Class 3,  
20 it's very common to have Clean Environment  
21 Commission hearings. I think in the last 10  
22 years, we have only had two Class 3 projects that  
23 did not have Clean Environment Commission  
24 hearings. But this case, for this project, it is  
25 absolutely a requirement because it will be in

1 lieu of the Federal NEB hearings.

2           So the proposal was actually filed  
3 with us, the Environmental Approvals Branch,  
4 November 21st of 2014, in the way of a draft  
5 scoping document. And the purpose of the scoping  
6 document is to confirm the expectations for the  
7 Environmental Impact Statement, which would be  
8 filed later. The draft scoping document was  
9 advertised in newspapers, posted on the public  
10 registry, and comments were invited to  
11 February 9th, 2015. The draft document was  
12 reviewed by government's internal Technical  
13 Advisory Committee, the public, and also staff at  
14 the National Energy Board. We wanted to make sure  
15 that they were satisfied that the scope of the  
16 scoping document was broad enough to meet the  
17 federal requirements.

18           So the scoping document was finalized  
19 in June of 2015. The final version was posted on  
20 the public registry, and it did include comments  
21 and endorsement from the National Energy Board  
22 members. We did get comments from the public at  
23 that stage in the process, five of them, and they  
24 were primarily surrounding land values and basic  
25 process questions.

1                   So the Environmental Impact Statement  
2     itself was filed September 22nd, 2015. It also  
3     was placed in the public registry. It was also  
4     advertised, and comments were invited to  
5     November 30th, 2015. Comments were received from  
6     TAC, the public, and also the Federal Government.

7                   As is often the case with projects of  
8     this scope, it was a very iterative process,  
9     consisting of information requests back and forth  
10    between people commenting and the proponent that  
11    took place from October of 2015 to April 2016.  
12    And the final responses to information requests  
13    were provided to us on April 29th, 2016.

14                  With that information, the  
15    Environmental Approvals Branch of Sustainable  
16    Development prepared a summary of the process to  
17    that point in time, and finalized it, put it in  
18    the public registry in October of 2016.

19                  So the next steps, after the review,  
20    departmental review is done, we advised the Clean  
21    Environment Commission that our staff process was  
22    now complete and that we were of the view that  
23    issues raised during the review were either  
24    addressed in Manitoba Hydro's responses to the  
25    information requests, or that they could be

1 addressed in various licensing conditions.

2 And I've just put this slide up  
3 because I believe copies of the presentation are  
4 available somewhere in the room, and so if you  
5 wish to access the materials that we've prepared  
6 so far, this is where you can find them.

7 And now we go on to today, the next  
8 steps in the process. We're starting with the CEC  
9 hearings, and we expect a Ministerial report will  
10 be due 90 days after the hearings are complete,  
11 which hopefully will include licensing and  
12 non-licensing recommendations. We are also  
13 expecting a consultation report, which our  
14 consultation process is happening in parallel to  
15 this. And then finally, the Minister is to make a  
16 licensing decision, and that licensing decision  
17 would be informed by the Environmental Approvals  
18 Branch process which I have described to you  
19 today, the Clean Environment Commission  
20 recommendations report which is in the future, and  
21 the Crown Indigenous Consultation report, which  
22 also is in the future. So all of those three  
23 things will help the Minister make a licensing  
24 decision.

25 And before I close off, I would like

1 to thank the Clean Environment Commission for all  
2 their hard work so far to date, and ongoing. And  
3 I really look forward to your report and  
4 recommendations. And I would also like to thank  
5 all participants for their contributions to this  
6 process. Thank you.

7 THE CHAIRMAN: Thank you for that  
8 summary, Tracey.

9 So we'll move now to opening  
10 statements and we do have an order we're  
11 following. So we will begin with Manitoba Hydro.

12 MR. BEDFORD: Good morning,  
13 Commissioners, Commission staff, participants,  
14 colleagues from Manitoba Hydro, consultants and  
15 members of the public.

16 My name is Doug Bedford. I am one of  
17 the legal counsel to Manitoba Hydro at this  
18 hearing. To my immediate left is Ms. Shannon  
19 Johnson, the manager of the Licensing and  
20 Environmental Assessment Department in the  
21 Transmission Group of Manitoba Hydro. Next to  
22 Ms. Johnson is my colleague from the legal  
23 department, Ms. Janet Mayor. Next to Ms. Mayor,  
24 Mr. Shane Mailey, the vice-president of the  
25 transmission group at Manitoba Hydro. And at the

1 table immediately behind me, on the far left,  
2 another colleague from the legal department at  
3 Manitoba Hydro, Ms. Jennifer Moroz. Next to her,  
4 Ms. Maggie Bratland, who has played an important  
5 roll in the development of the Environmental  
6 Impact Statement in Ms. Johnson's department. And  
7 next to her, Mr. Glenn Penner from the  
8 transmission group. Mr. Penner will be largely  
9 responsible for constructing this project when  
10 it's licensed.

11 Ms. Mayor, Ms. Moroz and I are the  
12 primary counsel at this hearing to Manitoba Hydro.  
13 We will, however, at certain stages be joined by  
14 two other lawyers who have provided advice to  
15 Manitoba Hydro on particular issues regarding this  
16 project. Those lawyers are Mr. Bob Adkins of the  
17 firm of Thompson Dorfman Sweatman, and Mr. Brenden  
18 Hunter at the firm of Fasken Martineau.

19 The planning, engagement and  
20 development of the Manitoba-Minnesota Transmission  
21 Project owes much to the Bipole III project. A  
22 number of the individuals who worked on Bipole III  
23 have worked on the project that you are reviewing  
24 here. Like Bipole III, this project requires the  
25 selection of a right-of-way, the construction of

1 towers, and the stringing of conductors. Like  
2 Bipole III, it is a 500-kilovolt transmission  
3 line. But unlike Bipole III, it will carry an  
4 alternating current of energy with the current  
5 changing direction from positive to negative to  
6 positive 60 times per second, just as it is in  
7 this room. Bipole III, of course, will carry a  
8 current of energy that flows in only one  
9 direction, north to south.

10           The Manitoba-Minnesota transmission  
11 line to be presented here is designed to run for  
12 213 kilometres from the Dorsey Converter Station  
13 northwest of Winnipeg to the Village of Piney at  
14 the American border. Ninety-two of these 213  
15 kilometres are to be located in existing  
16 right-of-ways around and to the immediate east of  
17 the City of Winnipeg; 121 of the 213 kilometres  
18 are new and are to be found in southeastern  
19 Manitoba. These 121 kilometres of new  
20 right-of-way will occupy 36 kilometres of Province  
21 of Manitoba Crown land and 85 kilometres of  
22 privately owned land.

23           Manitoba Hydro will have to acquire  
24 the legal right to place the right-of-way on  
25 private land. In order to operate this new line,

1 Manitoba Hydro must make modifications to both the  
2 Dorsey and Riel converter stations, and must make  
3 changes to the Glenboro station which is located  
4 hundreds of kilometres to the west of Winnipeg.

5           The Manitoba-Minnesota transmission  
6 line will connect to a 500-kilovolt alternating  
7 current line presently being built in northern  
8 Minnesota. The line will carry energy to  
9 Minnesota, and it will carry energy generated in  
10 Minnesota and other northern states to Manitoba.  
11 Although Manitoba Hydro is a net exporter of  
12 energy and has been such for over 30 years, many  
13 Manitobans do not know that we must at times  
14 import energy. We certainly do this each year in  
15 the coldest months. We expect to do so when the  
16 next drought visits us.

17           Bipole III casts a long shadow. This  
18 Commission reviewed and recommended it be  
19 licensed. Your recommendations also influenced  
20 heavily the planning, engagement and development  
21 of the Manitoba-Minnesota transmission project.  
22 You told us in non-licensing condition 7.1 to your  
23 Bipole III report that you believed a more open  
24 and transparent route selection process was  
25 possible, and you said that you wanted to see more

1 use of quantitative data. We tried to do that  
2 with this project.

3           You told us in non-licensing condition  
4 7.2 to your Bipole III report that you wanted to  
5 see more participation of affected public and  
6 indigenous communities in the canvassing of  
7 alternative routes and route selection criteria.  
8 We tried to do that with this project.

9           This will be my fifth hearing before  
10 the Clean Environment Commission. When we  
11 completed the Wuskwatim hearing in 2004, I  
12 observed in the remarks I submitted to your  
13 predecessors on the panel that we had much room  
14 for improvement in how we go about integrating  
15 indigenous knowledge and western science. Since  
16 2004, all of us have watched the work of the Truth  
17 and Reconciliation Commission of Canada and have  
18 received its report. Call to action 45 of that  
19 report, although directed specifically to the  
20 Government of Canada, has some useful guidance for  
21 our work here. It recommends that indigenous laws  
22 and legal traditions be recognized and integrated  
23 in processes that involve land claims and other  
24 constructive agreements.

25           At Manitoba Hydro we have tried to

1 improve our recognition and integration of  
2 indigenous knowledge in our work. We have,  
3 arguably more than with previous projects, tried  
4 to listen and to avoid impacting lands that  
5 indigenous people told us were of a special value  
6 to them. It is no easy task to understand another  
7 culture's legal traditions when one does not speak  
8 the language and knows little of the history.

9 I have learned that Anishinaabe law is  
10 about relationships. These relationships, person  
11 to person, nation to nation, mankind to mammal,  
12 mankind to flora, mankind and water, give rise to  
13 rights and their corollary responsibilities and  
14 obligations.

15 Each person in Manitoba is a  
16 participant in an Anishinaabe legal relationship  
17 to co-exist peacefully and to share the land as  
18 confirmed in treaties. Anishinaabe legal  
19 tradition, as I understand it, provides that we  
20 must not leave all responsibility for the future  
21 to those not yet born to whom some day the future  
22 will belong.

23 The work we at Manitoba Hydro have  
24 done, and the work you will do, has much to do  
25 with satisfying ourselves that this project will

1 not result in any significant loss to the  
2 environment for future generations, and that it  
3 will help to provide for the future energy needs  
4 of all of the people of this province.

5           As with every project of this  
6 magnitude, the final decision to recommend to  
7 Manitoba Hydro's board that the project proceed to  
8 licensing was the responsibility of our senior  
9 management. Like you, they had an obligation to  
10 inform themselves sufficiently about the project  
11 in order to be comfortable in sending it forward.

12           This is not an easy time to be leading  
13 Manitoba Hydro. Everyone present here will know  
14 that we are losing colleagues whose jobs are being  
15 eliminated, that we are struggling to manage the  
16 costs of projects underway, and that we find we  
17 have to ask for rate increases that are higher  
18 than Manitobans have come to expect.

19           However, we are confident that as you  
20 hear more about this project, you will find that  
21 what has not changed over the years is the  
22 commitment my colleagues, our consultants and I  
23 have to professionalism, to hard work, to learning  
24 from thoughtful recommendations and informed  
25 criticism, and to getting the job done properly

1 and well.

2 In Manitoba, we at Manitoba Hydro are  
3 the most experienced in building and operating  
4 electrical transmission systems. We do not claim  
5 to be the most competent in assessing and  
6 predicting the environmental impacts of our  
7 projects, but we are getting better.

8 Your purpose is to review our work,  
9 the Environmental Impact Statement, and the public  
10 consultation we did, to consider the effects on  
11 indigenous peoples of the changes in the  
12 environment that the project will cause, and to  
13 make recommendations

14 When you are done, we are confident  
15 that you will recommend that the  
16 Manitoba-Minnesota transmission project merits  
17 licensing, and we expect that you will also match  
18 the hard work and professionalism of your  
19 predecessors, and provide the Minister with  
20 practical, thoughtful recommendations that will  
21 enhance the construction and operation of the  
22 project. Thank you.

23 THE CHAIRMAN: Thank you, Mr. Bedford.  
24 Next we will turn to the Consumers Association of  
25 Canada. Thank you.

1 MS. PASTORA SALE: Good morning  
2 Mr. Chair, members of the panel, and others. My  
3 name is Joelle Pastora Sale and I work as a lawyer  
4 at the Public Interest Law Centre. I'm here on  
5 behalf of the Consumers' Association of Canada,  
6 Manitoba branch, who I will refer to as CAC  
7 Manitoba throughout these hearings.

8 With me here today and seated at the  
9 CAC Manitoba table is Ms. Gloria DeSorcy,  
10 Executive Director of CAC Manitoba, as well as Max  
11 Griffin-Rill, who is a law student and is a summer  
12 intern in my office. My co-counsel Byron Williams  
13 will also be joining me at times during the  
14 hearing process. And in the audience also joining  
15 us is Dr. Patricia Fitzpatrick, who you will be  
16 hearing from later in the hearing.

17 Before I begin, I would like to  
18 acknowledge that we are gathered on Treaty 1  
19 territory and home of the Metis Nation.

20 CAC Manitoba is a non-profit volunteer  
21 organization that works to inform, empower and  
22 represent consumer interests in Manitoba. CAC  
23 Manitoba provides evidence-based advocacy to  
24 ensure that consumers can have access to accurate,  
25 verifiable information in accessible formats, and

1 the skills and knowledge necessary to make sound,  
2 sustainable choices.

3           Those of you who may not be familiar  
4 with CAC Manitoba may wonder why consumer rights  
5 advocacy organization is participating in an  
6 environmental assessment process of the  
7 Manitoba-Minnesota transmission line.

8 CAC Manitoba is guided by eight consumer rights  
9 and principles, including facts and information,  
10 the right to have opportunities to get the  
11 knowledge and skills we need to be informed  
12 consumers, a role in making government policies  
13 for the market-place, and a healthy environment  
14 now and into the future.

15           Guided by these rights and principles,  
16 CAC Manitoba has been involved in several  
17 environmental assessment hearings at the Clean  
18 Environment Commission. While there may be  
19 several definitions of environmental assessment,  
20 CAC Manitoba understands environmental assessment  
21 to be a proactive planning process which allows us  
22 to identify and mitigate, where possible, the  
23 potential negative impacts of proposed development  
24 projects.

25           From CAC Manitoba's perspective,

1 environmental assessment must be guided by  
2 principles of transparency, inclusivity, informed  
3 deliberations and meaningful consumer  
4 participation.

5 Environmental assessment is not a  
6 stagnant process. As consumers and citizens, our  
7 expectations of environmental assessment is that  
8 it will change over time, based on experience,  
9 available knowledge and technology.

10 As evidenced by the need for a review of a federal  
11 environmental assessment process, public trust and  
12 legitimacy are necessary elements of an effective  
13 environmental assessment process. As we're all  
14 aware, the environmental assessment and licensing  
15 process in Manitoba is guided and directed by the  
16 Environment Act. We know that at its core, the  
17 intent and purpose of the Environment Act speaks  
18 to the need to protect the environment as to  
19 ensure high quality of life, including social and  
20 economic development, recreation and leisure for  
21 this and future generations.

22 The Act also reinforces the importance  
23 of public participation in environmental  
24 assessment and recognizes the important role of  
25 the Clean Environment Commission in this respect.

1                   Within the context of hydro  
2   development, the Clean Environment Commission is  
3   the only way that consumers can have their voices  
4   heard, because we are subject to a monopoly. The  
5   CEC is therefore necessary for the realization of  
6   consumers rights.

7                   I am on page 6. CAC Manitoba has been  
8   involved in major environmental assessment  
9   proceedings since the early 2000s. This includes  
10   the environmental assessment hearings relating to  
11   Wuskwatim, Bipole III, Keeyask generation, as well  
12   as the hearings within Lake Winnipeg Regulation  
13   and the Need For and Alternatives To assessment of  
14   Manitoba Hydro at the Public Utilities Board.

15                  Page 7: With the assistance of  
16   experts, CAC Manitoba has accumulated knowledge  
17   about the impacts of development projects in a  
18   variety of aspects, including human and community  
19   health, the economy, traditional land users,  
20   elders and knowledge holders, as well as  
21   cumulative effects assessment and monitoring and  
22   follow-up.

23                  Thanks to the funding from the CEC,  
24   CAC Manitoba has learned about best practices  
25   within these areas.

1                   As we read in the EIS, Manitoba Hydro  
2   has also learned from past projects. The  
3   Manitoba-Minnesota transmission project is being  
4   reviewed at an interesting time, as was referred  
5   to by Mr. Bedford. In some respects, the MMTP  
6   represents a closing of a loop, as it is likely to  
7   represent the last in a series of applications by  
8   Manitoba Hydro for Class 3 development project  
9   licences.

10                   However, given best practices and  
11   environmental assessments will continue to evolve,  
12   consumers expect continual learning will lead to  
13   better management of environmental effects of  
14   projects.

15                   Page 8: Challenges of Manitoba Hydro.  
16   While CAC Manitoba certainly acknowledges Manitoba  
17   Hydro's desire to learn from past projects, our  
18   clients will suggest that Hydro continues to  
19   require improvements, including within the area of  
20   transparency and inclusiveness of consumers in  
21   decision-making, monitoring and follow-up. The  
22   silos within Manitoba Hydro and the Manitoba  
23   regulatory process, cooperation and coordination  
24   among provincial, federal and indigenous  
25   jurisdictions, the acknowledgment that best

1 practice environmental assessment is always  
2 evolving and that regulatory compliance is not  
3 sufficient, and its relationship with indigenous  
4 nations and people.

5 Page 9: As we go through the next few  
6 weeks of hearings, CAC Manitoba will be focusing  
7 on the review of Manitoba Hydro's monitoring and  
8 follow-up plans, its ISO compliance, and its plan  
9 for adaptive management.

10 For CAC Manitoba follow-up and  
11 monitoring programs are critical components of  
12 good environmental assessment, and adaptive  
13 management serves as best practice for the design  
14 and implementation of follow-up and monitoring  
15 programs.

16 Whether we are, or represent  
17 consumers, indigenous nations, governments,  
18 proponents, or regulatory bodies, monitoring and  
19 follow up provides a powerful opportunity for  
20 collective observing, verifying, learning and  
21 adapting. CAC Manitoba seeks to build on  
22 improvements made in EIS before the CEC in recent  
23 proceedings and to ensure that MMTP is consistent  
24 with best practices.

25 Page 10: Over the last decade or so,

1 the CEC has gained a reputation across Canada for  
2 innovative recommendations which have set  
3 standards for best practice. The recommendations  
4 of the CEC for Bipole III and Keeyask projects  
5 reinforce the iterative nature of the monitoring  
6 design, but it also set the stage for appropriate  
7 regulatory and industry practices in follow-up and  
8 monitoring programs. But environmental practices  
9 and standards have already evolved since these  
10 hearings. MMTP offers the CEC an opportunity to  
11 enhance its reputation and make recommendations  
12 which will exceed past standards and practices.  
13 The bar is being raised for environmental  
14 assessment across Canada. Not only do consumers  
15 expect that Manitoba Hydro has learned from the  
16 past, but consumers believe that Manitoba Hydro  
17 has the responsibility to continuously enhance its  
18 practices in a transparent, inclusive, informed  
19 and meaningful manner.

20                   Within the Terms of Reference in mind,  
21 CAC Manitoba hopes to assist the CEC panel in its  
22 deliberations regarding the public interest of the  
23 Manitoba-Minnesota transmission project.

24                   We thank the Clean Environment  
25 Commission panel for this opportunity and look

1 forward to the dialogue over the next few weeks.

2 Thank you.

3 THE CHAIRMAN: Thank you,

4 Ms. Pastora Sale.

5 Our next opening statement will come

6 from the Southern Chiefs' Organization. Thank

7 you. Chief Daniels.

8 MR. BEDDOME: Good morning

9 Mr. Chairman, other members of the panel, madam

10 secretary and other CEC staff, and representatives

11 of the proponent, Manitoba Hydro, and all other

12 people who may be in attendance today.

13 My name is James Beddome, I am legal

14 counsel for the Southern Chiefs' Organization.

15 It's my honour to be joined here today by Grand

16 Chief Jerry Daniels. Just to give you a quick

17 outline, Grand Chief Daniels will be speaking a

18 little bit about who Southern Chiefs' Organization

19 are and why they are here today. And then

20 following, I will give a brief outline of the

21 evidence we intend to call.

22 So without further adieu, Grand Chief

23 Daniels is a member of Long Plain First Nation and

24 he was recently elected the Grand Chief of the

25 Southern Chiefs' Organization in January of 2017

1 CHIEF DANIELS: Good morning everyone.  
2 Good morning, Mr. Chairman, panel members and  
3 attendees and participants.

4 The Southern Chiefs' Organization is  
5 an assembly of 33 First Nations of Southern  
6 Manitoba. Southern Chiefs' Organization is an  
7 independent political forum to protect, preserve,  
8 promote and enhance First Nations peoples'  
9 inherent rights, languages, customs and traditions  
10 through the application and implementation of the  
11 spirit and intent of the Treaty making process.

12 SCO members include signatories of the  
13 Treaty 1, 2, 3, 4, 5, and Dakota Nations who did  
14 not sign Treaty with Canada. This represents  
15 about half of the First Nations in Manitoba. Our  
16 population is over 70,000, both on and off  
17 reserve, with many in Winnipeg.

18 The objectives of the Southern Chiefs'  
19 Organization include assist member First Nations  
20 in the advancement and achievement of their goals  
21 as mandated by the chiefs meeting in summit;  
22 provide a common front for initiatives mandated by  
23 the chiefs meeting in summit; promote and assist  
24 member First Nation in providing good government  
25 for their First Nations; assist member First

1 Nations in promoting and defending Treaty and  
2 Aboriginal rights as mandated by the chiefs in  
3 summit; assist member First Nations in holding the  
4 Crown and holding the Federal and Provincial  
5 Governments responsible for fulfillment of their  
6 fiduciary duties and other responsibilities and  
7 obligations.

8           In 2004, at Dakota Tipi, the chiefs in  
9 summit passed resolution 16 on environmental  
10 stewardship, which resolved that First Nations  
11 must protect -- participate as active partners in  
12 any public and private environmental stewardship  
13 programs and initiatives, Southern First Nations  
14 perform their own environmental research studies  
15 in regards to environmental stewardship on their  
16 traditional lands and territories, and I as Grand  
17 Chief, to support and lobby financial support from  
18 the Federal and Provincial Government to  
19 participate fully in all environmental stewardship  
20 programs and initiatives.

21           SCO is here to support our member  
22 First Nations based on the 2004 resolution 16 and  
23 the decision at the SCO summit in September 2016.

24           MR. BEDDOME: Just before I move on, I  
25 realized I forgot to acknowledge and want to thank

1 the Commission for acknowledging that we are on  
2 Treaty 1 territory, as well as the homeland of the  
3 Metis Nation, and also on the traditional  
4 territories of the Dakota people who did not sign  
5 Treaty.

6 I just quickly want to outline the  
7 seven main issues that Southern Chiefs'  
8 Organization intends to address in the hearings.

9 Firstly, we want to explain who  
10 Southern Chiefs' Organization is, and we also want  
11 to explain a little bit about Treaty territories  
12 and indigenous rights.

13 We also want to talk a little bit  
14 about the historical loss of Crown land over time.

15 Thirdly, we want to talk about the  
16 impact on habitat, animals and other species from  
17 the project.

18 Fourthly, we want to look at hunting,  
19 fishing, gathering medicinal plants and other  
20 traditional use and land base practices and  
21 concerns that member nations have.

22 Fifth, we want to talk about the  
23 potential impact on Southern Chiefs' Organization  
24 member nations.

25 And sixth, the potential effect on the

1 ability for First Nations and indigenous peoples  
2 to exercise their rights on the remaining Crown  
3 land in the region.

4           And seventh, improving Manitoba  
5 Hydro's engagement with First Nations.

6 We will be calling one expert witness, being  
7 Dr. Petr Cizek. Dr. Cizek has considerable  
8 experience in geotechnical mapping and land use  
9 planning. He has appeared before the panel  
10 before, so I think you're familiar with him. But  
11 he's going to utilize available map sets and with  
12 that he's going to be able to map the study area  
13 from between 1930 and 2016, and will show the  
14 change in land use patterns. And particularly  
15 what will be shown is a net decline in forest  
16 covered areas, and at the same time a substantial  
17 increase in linear features and linear  
18 developments.

19           The Southern Chiefs' Organization will  
20 also be bringing forward a panel that will include  
21 the Grand Chief, who sits beside me, and other  
22 representatives from Southern Chiefs' Organization  
23 communities. The panel will present a  
24 cross-section of perspectives. And this will  
25 serve to highlight the fact that particularly in

1 Southern Manitoba, it's becoming extremely  
2 difficult for indigenous people to exercise their  
3 traditional rights due to the increased  
4 industrialization, which has decreased the amount  
5 of unoccupied Crown land and wildlife available  
6 for harvesting.

7           They will also demonstrate that the  
8 traditional territories of indigenous people  
9 occupy large areas and people may travel hundreds  
10 of kilometres to exercise their traditional rights  
11 based on seasonal and other natural patterns.

12 They will demonstrate that indigenous rights are  
13 not confined to a single Treaty area, but in fact  
14 indigenous people can hunt on any unoccupied lands  
15 anywhere in Canada. Moreover, they will highlight  
16 that many indigenous people live away from their  
17 own home community, but they are still able to  
18 exercise their indigenous rights on unoccupied  
19 lands close to where they do live.

20           And they will also demonstrate that  
21 indigenous people have local and traditional  
22 knowledge that could benefit Manitoba Hydro, the  
23 Clean Environment Commission and the Government of  
24 Manitoba.

25           We thank you very much for allowing us

1 to participate and for your time, and we look  
2 forward to the proceedings.

3 THE CHAIRMAN: Thank you, Chief  
4 Daniels and Mr. Beddome.

5 Our next presenter, or participant  
6 presenting an opening statement will be from  
7 Peguis First Nation.

8 MR. SUTHERLAND: Good morning,  
9 Mr. Chairman, Commissioners of the Clean  
10 Environment Commission. Good morning to the  
11 proponent and all participants. Good morning to  
12 our Aboriginal brothers and sisters in the room.

13 My name is Wade Sutherland and I'm a  
14 duly elected councillor of Peguis First Nation.  
15 One of my portfolios is lands and environment. I  
16 am responsible for the consultation and special  
17 projects office. Our consultation and special  
18 projects office has worked on several projects  
19 related to the MMTP, that being engagement with  
20 Manitoba Hydro about MMTP, land use and occupancy  
21 interviews, our current Manitoba Crown Aboriginal  
22 consultation, this Clean Environment Commission  
23 hearing, and we intend to be involved in the  
24 National Energy Board process and Federal Crown  
25 Aboriginal consultation.

1 Peguis First Nation appreciates this  
2 opportunity to participate in this hearing and  
3 make opening comments. Our aim is to participate  
4 in these hearings, inform the CEC, and bring our  
5 knowledge and skill to the hearing. Some here  
6 will know Peguis First Nation participated in the  
7 three previous CEC hearings about Manitoba Hydro  
8 projects; those include Bipole III, Keeyask dam,  
9 Lake Winnipeg Regulation. We also have begun to  
10 participate in the National Energy Board hearings  
11 about projects which affect Peguis access to land  
12 and territory.

13 Welcome to Treaty 1 and Peguis  
14 traditional territory. We are a short drive from  
15 our original reserve when we were the St. Peter's  
16 band up to 1906. Peguis First Nation traditional  
17 territory and modern land use by our members  
18 stretches through the region where the  
19 Manitoba-Minnesota Transmission Project would be  
20 located. We are a signatory to Treaty 1, signed  
21 in 1871. There are no distinguishing clauses in  
22 the Treaty document for land outside of Treaty 1  
23 area. As a result, Peguis First Nation members  
24 can exercise their right to land inside and  
25 outside the Treaty 1 area.

1                   When Treaty 1 was being negotiated in  
2 1871, some chiefs stated that they have to speak  
3 for the land because the land cannot speak for  
4 itself. We were asked by the Creator to be  
5 stewards of the land. This is our duty.

6                   In conclusion, Peguis First Nation is  
7 hopeful that our input at this hearing will  
8 provide a viewpoint and position that the  
9 Commission will consider seriously and appreciate.  
10 We hope for a fair and just report from the CEC.  
11 Meegwech.

12                   MR. VALDRON: Thank you. Good morning  
13 to the Commission, to more fellow participants, to  
14 Manitoba Hydro. My name is Den Valdron. I'm  
15 going to be the legal counsel representing Peguis  
16 First Nation on these Clean Environment Commission  
17 hearings with regards to the Manitoba-Minnesota  
18 transmission line project.

19                   Peguis has always been a leading First  
20 Nation in Manitoba. The people of Peguis were  
21 farmers in the region before Europeans even came  
22 here. When settlers came, it was the people of  
23 Peguis that sheltered them from the fury of the  
24 fur traders. The Peguis people signed the first  
25 Treaty and then they signed the numbered Treaty.

1 They were the people of the crossroads and they  
2 travelled as far north as Hudson's Bay and as far  
3 south as the lower reaches of the Red River. The  
4 people of Peguis were known and respected through  
5 the region.

6 Now today Peguis is a nation of 11,000  
7 people. It continues to be a leader among First  
8 Nations. In these sessions you will hear evidence  
9 from Peguis about our culture or traditions.  
10 You'll hear evidence of land use of Peguis members  
11 throughout southeast Manitoba and in and around  
12 the areas affected by the project.

13 Now, before I touch on that, I want to  
14 address two misconceptions that are quite common.  
15 These are proximity and exclusion. There is a  
16 notion that if a project isn't in close proximity  
17 to a First Nation, i.e. on its doorstep in some  
18 fashion, sometimes even, you know, touching on a  
19 specific reserve land or piece of reserve land,  
20 then the First Nation doesn't have an interest or  
21 may not have an interest. And there's a notion  
22 that if an area is primarily private land, then no  
23 indigenous interests are at risk. They are taken  
24 up, and taken out, and that in this act of taking  
25 up indigenous interests are excluded entirely from

1 the region. Both of these are false and our  
2 evidence is going to show that. I say to you, you  
3 cannot rely on these misconceptions. In fact, we  
4 will show that the history of Peguis past and  
5 current land use extends across vast areas of the  
6 province and, in fact, into the region in  
7 question. The southeast corner of the province is  
8 the site of extensive use by Peguis members.

9 Now, keep in mind that Peguis is not  
10 just a reserve. There are 5,000 Peguis members in  
11 and around Winnipeg. The region in question is  
12 literally the only accessible area that they can  
13 practice traditional activities, southeastern  
14 Manitoba, that corner is their preferred area.

15 As to exclusion, we want to point out  
16 that no taking up is ever total or complete.  
17 There's always leftover lands, there's patches,  
18 there's islands, there's riparian areas and road  
19 allowances. Over the last century, Peguis members  
20 have learned to practice their traditional areas  
21 in the modern context, in the margins of private  
22 property and through negotiations with private  
23 property owners. Even in areas dominated by  
24 private land, there remain patchworks of wild or  
25 public land and situations and area where

1 traditional rights are exercised.

2 Now, in support of these points, we  
3 bring two expert witnesses. Mike Sutherland,  
4 Director of Consultation Special Projects Unit for  
5 Peguis. He's a trapper, a hunter, a former  
6 councillor, a former Natural Resource officer, a  
7 teacher and a leader within the community. He  
8 possesses an unparalleled breadth of knowledge and  
9 will speak to land use activities and cultural  
10 importance of the area, and the impact of the MMTP  
11 on those traditional activities.

12 Our second expert witness is Dr.  
13 Niigaan Sinclair, a well-respected academic who  
14 will be speaking of the larger context of  
15 indigenous historical, national and traditional  
16 activities in southeastern Manitoba to provide  
17 information and background for the cultural  
18 knowledge and traditions in the areas covered by  
19 the MMTP.

20 Finally, we will have a panel of  
21 Peguis members to testify as to the community, the  
22 culture, traditions and use. They will speak  
23 about the MMTP project area and the impacts and  
24 potentials for impact for the members of the First  
25 Nation.

1                   And assisting the panel will be Jared  
2 Whelan, who will be acting as technical support.  
3 And I believe he will be providing technical  
4 support to Mike Sutherland as well. Also, he is  
5 not an expert himself and he is not a member of  
6 the panel.

7                   Now, why we are here? Why is Peguis  
8 here? The answer is simple. Our objective here  
9 is the preservation of our way of life and the  
10 manner and places in which we choose to live it.  
11 It is not satisfactory to say have your way of  
12 life, just practice it somewhere, because  
13 elsewhere turns into nowhere. It is not  
14 satisfactory to say have your way of life, we're  
15 just going to impinge on it a little bit, because  
16 impingement turns to termination.

17                  For the people of Peguis, our ways of  
18 life are intimately tied to the land. There is no  
19 distinction between land and people. It is  
20 through the land, through hunting, trapping,  
21 fishing, gathering, through spiritual activities,  
22 and recreation, and simply being there, relating  
23 to and working on and persisting on the land that  
24 identity is formed. You cannot have culture  
25 without that land.

1                   We are here to see that our rights are  
2    respected and not subverted, that our views are  
3    heard and not ignored, that our lives and  
4    advocations that the lands for which we are  
5    guardians are protected as set out in the  
6    Treaties.

7                   Our rights will not be subordinated.  
8    Our rights, our values, our way of life is as  
9    relevant, as valuable, as significant and  
10   important a value as any other interest or claim.  
11   We do not subordinate, we do not accept other  
12   priorities as higher.

13                  This hearing is about monitoring,  
14   mitigation, compensation, adjustments. These  
15   things will all be part of these discussions and  
16   we want to be part of these discussions.  
17   We will accept the need for accommodation and we  
18   will accommodate, but we must be accommodated. We  
19   are prepared to listen, but we will insist on  
20   being heard. And we are here to speak for our  
21   rights. Thank you.

22                  THE CHAIRMAN: Thank you very much for  
23   that statement.

24                  Our next opening statement will come  
25   from the Manitoba Metis Federation.

1 MR. MADDEN: Good morning, panel. My  
2 name is Jason Madden. I am legal counsel for the  
3 Manitoba Metis Federation. I'm here today with  
4 Meagan Strachan from our firm, as well as Marci  
5 Riel, the Director of Infrastructure and Energy at  
6 the Manitoba Metis Federation.

7 I'm going to focus my presentation and  
8 opening comments to just set out the legal  
9 framework and to draw the Commission's attention  
10 to what we think are very important key issues of  
11 all of the evidence that the Manitoba Metis  
12 Federation is going to provide and feed into over  
13 the hearing.

14 I'm going to start with who is the  
15 Manitoba Metis Federation. It's their  
16 self-government representative of the Manitoba  
17 Metis community and it represents over 100,000  
18 Metis within the population of Manitoba. It's  
19 participated in past CEC hearings such as Bipole,  
20 Keeyask and others.

21 And I just want to start by saying  
22 that the history of the Metis and  
23 reconciliation -- or these hearings are actually  
24 reconciliation in action. Lots of people talk  
25 about it. Reconciliation is thrown around, it's

1 kind of like a consultant speak word, like synergy  
2 or horizontal management now. It has to have  
3 meaning. It has to have meaning in practical and  
4 real ways. And the Commission is obliged, and I'm  
5 going to outline a bit on that, to affect that.  
6 And it's not just saying, well, we're listening  
7 better but we're not changing what we're doing and  
8 it's status quo. It has to change.

9           So the legislative framework that the  
10 CEC is under, or guided by, is actually very  
11 unique to Manitoba. And I think this is why  
12 you're going to hear a lot of different types of  
13 evidence from the indigenous representatives  
14 generally, as well as the Manitoba Metis  
15 Federation specifically.

16           So first you have the Environment Act,  
17 and it's unique to Manitoba in one particular way,  
18 it assesses the effects on people. That does not  
19 exist in other jurisdictions across this country  
20 in relation to environmental assessment. And  
21 environment is defined as air, land, water, plant,  
22 animal life, including humans. So understanding  
23 the effects of a project on a people, including  
24 Aboriginal people, is absolutely necessary. It is  
25 within your mandate. We accept the principle that

1 the duty to consult process is separate and apart.  
2 But what you're hearing, as past presenter  
3 indicated, is that you can't separate indigenous  
4 people from the land. And the evidence being put  
5 forward is contextually around that.

6           Second, Manitoba is unique in all of  
7 Canada with its Path to Reconciliation Act. And  
8 we don't think that legislatures pass legislation  
9 which are kind of empty vessels or meaningless.  
10 And in fact, this unique piece of legislation  
11 actually mandates each Minister to advance  
12 reconciliation in section 3.2 of the legislation.  
13 And reconciliation refers to the ongoing process  
14 of establishing and maintaining mutually  
15 respectful relationships between indigenous and  
16 non-indigenous peoples in order to build trust,  
17 affirm historic agreements, address healing, and  
18 create more equitable and inclusive society. You  
19 are legislatively bound by that. That's not a  
20 common law principle flowing from the duty to  
21 consult and accommodate. This was passed by the  
22 Manitoba Legislature and you are obligated to  
23 ensure that your ultimate decision is advancing  
24 this.

25           And as I indicated, section 3.2 of the

1 section says each member of the executive council,  
2 which is essentially Manitoba Cabinet, is to  
3 promote the measures to advance reconciliation  
4 through the work of the members' department and  
5 across government.

6                   So I'm going to talk to you a little  
7 bit about the people that I represent, which is  
8 the Manitoba Metis community as a part of the  
9 larger Metis Nation. And you know them well, but  
10 I want to give you a context, because  
11 reconciliation is about telling the true story of  
12 Canada. It's about actually understanding our  
13 history. I always viewed it as it's "his story"  
14 usually. It's written from a different  
15 perspective. And it is usually seen as  
16 essentially driving over indigenous languages,  
17 indigenous cultures, indigenous territories. It's  
18 kind of like a virus in a computer. It infects  
19 and it rewrites the code. It's no longer that  
20 lake of what we used to call it, it's someone  
21 else's name on it. And the process of  
22 decolonizing or reconciliation is acknowledging  
23 that we don't know our own history as a country  
24 and that we have to do better. And it's not about  
25 blaming, and it's not about unringing the bell, or

1 going back and doing redos, it's about trying to  
2 do better through the recommendations that this  
3 Commission will make to advance reconciliation,  
4 but also fulfill its mandate under the Environment  
5 Act.

6                   This is the map of Canada that  
7 everyone kind of knows and there's intrinsic  
8 biases based in there, right? Canada is this  
9 little rump of a country at the east coast,  
10 there's this, you know, go west young man. And  
11 this concept that there's not peoples there with  
12 their own governments, their own languages, their  
13 own cultures and their own traditions. And that  
14 narrative has essentially, and colonization has  
15 took hold for 150 years. But in Manitoba there  
16 was no way Sir John A. could get his vision of  
17 creating a country from coast to coast to coast  
18 without dealing with the Metis Nation in the Red  
19 River Settlement.

20                   Back in 1869, '70, there is 12,000  
21 people living along the banks of the Red River,  
22 and in the settlement 10,000 of them are Metis,  
23 7,000 of them are children. Think about that.  
24 That's what this province used to be, and this  
25 territory that you're on currently, as well as

1 other indigenous groups who will speak about their  
2 own histories.

3 I just want to say this is Canada's  
4 perspective, this is deconstructing colonization.  
5 Here's Canada's perspective in 1869. This is from  
6 our Prime Minister of the day. It will require  
7 considerable management to keep those wild people  
8 down. Those are my people, the Metis. In another  
9 year, the present residents will be altogether  
10 swamped by an influx of strangers, who will go  
11 with the idea of becoming industrious and peaceful  
12 settlers, and essentially the homeland of the  
13 Metis will be swamped by others and taken away by  
14 others. This is Riel's vision, or the Metis  
15 perspective at the time.

16 When the government of Canada  
17 presented itself at our doors, it found us at  
18 peace. It found that the Metis people of the  
19 northwest could not only live well without it, but  
20 it had its own government, with its own free,  
21 peaceful, well-functioning, contributing to the  
22 work of civilization in a way that the company  
23 from England could never have done without a  
24 thousand soldiers. It was a government with  
25 organized constitutions, whose junction was more

1 legitimate and worthy of respect because it was  
2 exercised over the country that belonged to it.  
3 That's Riel in 1885.

4           And what is forged is a Treaty  
5 relationship. There were two societies who  
6 treated together. One was small, but in its  
7 smallness had its rights. The other was great,  
8 but in this greatness had no greater rights than  
9 the rights of the small.

10           And this is what comes out, the  
11 promise of 1.4 million acres of land for the  
12 children of the half breeds. So when that influx  
13 of settlers came, the Metis wouldn't just be a  
14 footnote within history.

15           And those are the lands that were  
16 talked about, about what the half breed grant was  
17 supposed to be. And of course, what I think we  
18 now know from the Supreme Court of Canada's  
19 decision in 2013, is that was undermined and  
20 delayed in order to ensure that that promise to  
21 the original Treaty partners was never fulfilled.  
22 And ultimately the court saying that the Crown  
23 breached the honour of the Crown in implementing  
24 section 31 of the Manitoba Act.  
25 That's our history. That's where these lands,

1 where this project is, that's what happened. The  
2 Metis story here is a story of dispossession. It  
3 is past the point of infringement. The thousand  
4 little paper cuts have already happened, and  
5 you're going to see that from the evidence. And  
6 so it's not going to just solely be about, well,  
7 here's where they hunt and here's where they trap,  
8 because they are not doing that any more because  
9 colonization won. Colonization was extremely  
10 effective.

11                   And we have to talk about  
12 reconciliation, which is about how do we  
13 rebalance? If we're sincerely committed to  
14 reconciliation, how do we rebalance those  
15 relationships? So it's not just more taking, more  
16 dispossession, and one more little paper cut.  
17 This project, of course, you'll hear from  
18 proponents always saying, but that's not our  
19 project, we can't solve this giant thing. Well --  
20 but we can. We can do better. And other  
21 jurisdictions do better on it. And I think that  
22 we are going to hear from the evidence that we  
23 need to do better if reconciliation is going to  
24 matter, or we're going to achieve it.

25                   So why does all this matter in the

1 hearing? You can't understand the potential  
2 effects on the people without understanding who  
3 they are. And you're going to hear from  
4 indigenous peoples about who they are. They know  
5 who they are and they want to tell you who they  
6 are. You can't understand the context of what's  
7 already happened to a people -- or understanding  
8 the context of what's already happened to a people  
9 is necessary to appreciate how this future  
10 development is going to appreciate them. You  
11 can't minimize and say, well, it's already passed.  
12 You can't just -- the context is important in  
13 order to understand how we can advance  
14 reconciliation. And you can't advance  
15 reconciliation if you're just going to repeat the  
16 indifference and exclusion of the past. It must  
17 be real and it must have meaning.

18                   And there's examples out there, other  
19 jurisdictions, whether it's revenue resource  
20 sharing, whether it's meaningful accomodation  
21 agreements, that's standard in other jurisdictions  
22 in this country. It's not always in Manitoba.  
23 And I hope that by the end of the hearing, we're  
24 going to be able to illustrate to you of how that  
25 is actually being achieved in relation to this

1 project, or needing recommendations in relation to  
2 that. Because it's not just about Aboriginal  
3 communities, or Aboriginal peoples and nations  
4 cannot be just narrowed down to harvesting or  
5 trapping or -- all of those things are  
6 fundamentally important, but they also need to  
7 become what they were originally envisioned to be,  
8 partners in Confederation.

9 And with that, thank you very much.

10 THE CHAIRMAN: Thank you very much,  
11 Mr. Madden. I think we'll take a short break, 15  
12 minutes to stretch your legs. So we'll be back  
13 here at 10:55. Thank you.

14 (PROCEEDINGS RECESSED AT 10:41 A.M.

15 AND RECONVENED AT 10:57 A.M.)

16 THE CHAIRMAN: Welcome back everyone.  
17 Our next participant opening statement will be  
18 Manitoba Wildlands. And thank you, Ms. Whelan  
19 Enns.

20 MS. WHELAN ENNS: Good morning. Good  
21 morning participants, legal counsels, plural,  
22 Manitoba Hydro staff, indigenous peoples, and the  
23 CEC panel and CEC staff. My name is Gaile Whelan  
24 Enns, I am the Director of Manitoba Wildlands.

25 Previously I have managed

1 environmental programs and campaigns in Manitoba  
2 for Nature Canada and for the World Wildlife Fund  
3 Canada. I was also a board member and advisor to  
4 Sierra Club Canada over a 15 year period.

5 Currently I am on the board of Climate Action  
6 Network Canada for Manitoba, a position I have  
7 held for almost a decade.

8           So here we are again, the fourth CEC  
9 hearing regarding a Manitoba Hydro project since  
10 late 2012. Manitoba Wildlands has been a  
11 participant in each of those Hydro CEC hearings.  
12 And I and various of the environmental and public  
13 advocacy roles that I occupy have been an attendee  
14 or participant for every CEC hearing regarding a  
15 non-Winnipeg decision since 1993. The Winnipeg  
16 wastewater hearings for the CEC are the exception.  
17 This may mean that I've been part of more CEC  
18 hearings than anyone else here today. I haven't  
19 taken a poll.

20           My professional relationship with the  
21 origins of the Clean Environment Commission and  
22 our Environment Act are a matter of record and are  
23 detailed in the Manitoba Wildlands response to the  
24 two reviews of our Environment Act. And that  
25 document is in the public registry, of course, and

1 also posted on the Manitoba Wildlands website. In  
2 short, I was a staff person for the political  
3 policy committee, which initiated the need for a  
4 Manitoba Environment Act more than 30 years ago.  
5 And then I was on the advisory committee to the  
6 Minister when that Act was written, tabled and  
7 passed third reading.

8           The proclamation of the Act was left  
9 to the government elect of 1988. The independence  
10 of the CEC was central to all policy discussions,  
11 and the language that lead up to the Act as is  
12 that independence central today.

13           I may also be the only person in  
14 Manitoba who has consistently appealed Class 3  
15 licenses under the Environment Act. This step is  
16 taken as a citizen and as an advocate who  
17 continues to believe that Manitoba is not quite  
18 doing a good enough job in its standards for  
19 Environmental Impact Statements, scoping documents  
20 and licensing conditions.

21           We certainly are not paying enough  
22 attention to the life cycle of infrastructure that  
23 may be in place for as long as a hundred years.  
24 And to date do not have regulatory requirement for  
25 reviews of the operation, licensing and

1 environmental effects for such long-term projects.  
2 We will return, that is Manitoba Wildlands will  
3 return to the subject of the Environment Act,  
4 environmental assessment and cumulative effects  
5 assessment in Manitoba as part of our contribution  
6 to the review to the MMTP.

7           For this hearing, there are some  
8 firsts. We have a new chair of the CEC, and we  
9 wish Mr. Scrafield the best as Chair of his first  
10 CEC hearing. We also have a panel of three, panel  
11 rather where three of the four panel members for  
12 this hearing are new to the content and the  
13 context for a Class 3 hearing regarding a Manitoba  
14 Hydro proposal under the Environment Act.

15 I would recommend -- I'm sort of known for  
16 recommends when I get to the mic -- I would  
17 recommend that you may want to read sections of  
18 the Keeyask Generation Station transcript, that  
19 will assist you in your learning and your  
20 deliberations. And your colleague on this panel,  
21 Mr. Nepinak, could probably suggest some relevant  
22 sections to take a look at.

23           One of the other firsts for this  
24 hearing was having one of the two lead Manitoba  
25 Hydro legal counsel for the MMTP hearings present

1 and participating in the interviews to assess  
2 participants' proposals for funding. To the best  
3 of my knowledge, that's never happened before.  
4 I would advise you that the technical and  
5 regulatory teams inside Manitoba Hydro do not  
6 necessarily talk to each other about regulatory  
7 matters, that is as far as I had ever been able to  
8 tell. That is they do not share what they heard  
9 or learned or committed to during each of the  
10 separate regulatory hearings. This is one the  
11 biggest eccentricities of our utility and its  
12 planning and management structure.

13 I would concur with the use of the  
14 word "silos" from one of the previous participants  
15 this morning. This was most evident during the  
16 Lake Winnipeg Regulation hearings, when the team  
17 responsible for our huge lake, our huge reservoir,  
18 who had never dealt with a public review in 40  
19 years, seemed to have no context or knowledge  
20 regarding any of the other regulatory reviews,  
21 even when the content was relevant to their  
22 responsibilities.

23 You may wish to consider the certainty  
24 demonstrated already this morning about First  
25 Nation and Aboriginal participants in CEC

1 hearings, starting with Louisiana Pacific hearings  
2 in 1996/97, with the first ever presentation by a  
3 First Nation during a CEC hearing, and then moving  
4 to the Wuskwatim hearings in 2004. One thing is  
5 certain about a CEC hearing now, the majority of  
6 the participants are likely to be First Nation and  
7 Aboriginal.

8                   Starting with the Wuskwatim hearings  
9 then, our office has been active in supporting and  
10 assisting First Nation and Aboriginal participants  
11 in CEC hearings and proceedings.

12                   There are also, each to their own, but  
13 there are also myths about CEC hearings, and a  
14 little myth busting may be a better way to start  
15 the weeks, best way I can think of this morning in  
16 terms of the weeks we're going to be working  
17 together. So here's two comments from the point  
18 of view of being a participant in multiple  
19 hearings. The participants here in the hearing  
20 are not the only organizations or the only  
21 communities affected by the project. And the  
22 participants are those then who have navigated the  
23 steps to be present and participating with some  
24 funding support.

25                   Another myth that comes up from time

1 to time that might need a little bit of busting is  
2 to basically point out that there's no parity in  
3 the process. That is those who are paid for each  
4 day and all of their activity connected to the  
5 MMTP proceedings and hearings are not the  
6 participants. A look at the provisional order for  
7 the MMTP hearings tells the same story. Call it  
8 volunteer or pro bono work, as one of the legal  
9 counsel has recently, the participants whose role  
10 it is to inform the CEC and bring independent  
11 analysis and external experts about the subject  
12 matter that the CEC panel hopefully needs to and  
13 will consider, are the ones here today who are not  
14 fully compensated. Simply put, the participants  
15 are providing the content, questions and advice to  
16 the CEC possible within the funding arrangements  
17 for their participation. Most of us in this room  
18 then are aware that various independent experts  
19 who could have been here to inform and assist the  
20 CEC were not funded.

21 The only CEC hearing that came close  
22 to parity was the Keeyask hearing. The quality of  
23 content and significance of independent experts'  
24 contributions to that proceeding lives on. And  
25 Manitoba Hydro will be relying on certain of those

1 experts' contributions in this proceeding.

2 No doubt some other myths may emerge  
3 while we work together for the next month.

4 I wanted to basically thank the MMF  
5 this morning for the references to the Path to  
6 Reconciliation Act and point out that it was  
7 passed unanimously in the legislature. It's not a  
8 point in time and it was unanimous.

9 As per the outline for evidence filed,  
10 Manitoba Wildlands in these hearings will be  
11 aiming to shed light on the EIS for the MMTP, in  
12 particular what approach for EA, cumulative  
13 effects planning, sustainability, and preferred  
14 standards for Class 3 projects are possible and  
15 needed in Manitoba's environmental protection and  
16 environmental assessment process, including the  
17 regulatory steps.

18 We will also be aiming to shed light  
19 on the missed potential in how to protect the  
20 environment, plan a transmission project, and look  
21 at the options for that project in the context of  
22 this environmental regulatory process.

23 We will also be aiming to shed light  
24 on the non-linear changes in our weather and  
25 climate system which Manitoba Hydro needs to pay

1 more attention to. It is becoming tired when the  
2 utility continues, or keeps suggesting that there  
3 really aren't any climate change impacts or risks  
4 to worry about until 2050. Our presenters,  
5 experts and content will aim to inform the panel  
6 and those here in the room through the hearings  
7 about the MMTP.

8 As always, the opportunity to  
9 participate is appreciated. Thank you.

10 THE CHAIRMAN: Thank you,  
11 Ms. Whelan Enns. And hopefully you'll be sharing  
12 your long history with the CEC with all of the  
13 participants over the course of these hearings.  
14 Thank you.

15 Our next participant will be the  
16 Southeast Stakeholders' Coalition.

17 MR. TOYNE: Thank you very much,  
18 Mr. Chair.

19 My name is Kevin Toyne and I am the  
20 lawyer for the Southeast Stakeholders' Coalition.  
21 The Coalition is a group of affected and otherwise  
22 concerned landowners in southeast Manitoba. And I  
23 apologize in advance for the brisk and less than  
24 comprehensive pace, but I do have only 10 minutes,  
25 so I shall do my best.

1                   So the coalition will be making three  
2 primary points throughout this hearing. First  
3 that Manitoba Hydro has relied on a flawed  
4 methodology to select the proposed route for the  
5 MMTP.

6                   Secondly, the Coalition will be  
7 attempting to convince you that using that flawed  
8 methodology, Manitoba Hydro then selected a flawed  
9 route for this transmission line.

10                  And finally that there is a better  
11 alternative that is available and that is an  
12 alternative that should be recommended by this  
13 Commission.

14                  And I'll touch on each of those three  
15 points briefly in my opening remarks. And if the  
16 Commission agrees with the Coalition's position,  
17 the Coalition's submissions with respect to the  
18 proposed outcome of this hearing are as follows:  
19 First you should decline to recommend that a  
20 licence be granted to this project until such time  
21 as Hydro has selected a more appropriate route for  
22 the line. Second and in the alternative, the  
23 first and final thirds of the line are less  
24 objectionable than the middle third, and that  
25 perhaps they could be licensed while Hydro redoes

1 the middle third of the line. But finally I'm  
2 going to explain to you why that alternative  
3 outcome should not be pursued by the Commission.  
4 So first turning to the methodology.  
5 So as you'll hear, Manitoba Hydro is relying on  
6 something called the EPRI-GTC methodology. And  
7 it's the first time that this Commission will have  
8 an opportunity to assess that methodology. And I  
9 anticipate that you're going to be told that that  
10 methodology is scientific, it's objective, it  
11 minimizes biases inherent in human decision  
12 making, and it reflects various perspectives and  
13 inputs. Nonetheless, I will be asking you to  
14 reject though this methodology. Why? Simply put,  
15 this methodology can perhaps best be described as  
16 the Donald Trump of routing methodologies. It's  
17 arbitrary decision-making based on faulty  
18 assumptions, bias, and it derives its  
19 respectability and credibility from its impressive  
20 sounding title. It significantly undervalues some  
21 of the key principles that govern routing  
22 decisions in Canada, and it suffers from two of  
23 the primary criticisms that this Commission  
24 levelled at the methodology used in the Bipole III  
25 hearing, false precision and subjectivity. I'll

1 talk very briefly about each of those now.

2           So with respect to false precision, as  
3 you'll hear, one of the final stages of this  
4 methodology is something called preference  
5 determination. Basically a small number of routes  
6 get ranked 1, 2 or 3 on a series of criteria, and  
7 then some weights are applied to those criteria.  
8 And much like golf, whichever route has the lowest  
9 score wins. Now, unfortunately, the use of that  
10 weighting can really magnify and really distort  
11 the differences between those scores.

12           So I'll use an example that I hope  
13 works, an example from the 2016 Rio Olympics. You  
14 might remember a fellow named Usain Bolt who won  
15 in the 100 metre dash, and a Canadian, Andre  
16 De Grasse came in third and he won the bronze.  
17 There was .1 of a second difference between two of  
18 them. That's all that separated one from three.  
19 But as you'll hear, the methodology that Manitoba  
20 Hydro is using would try to convince you that  
21 Andre De Grasse actually took three times as long  
22 to get to the finish line as compared to Usain  
23 Bolt, when the actual difference is only .1 of a  
24 second. That's an extraordinary distortion of the  
25 differences between those two individuals.

1                   Now, with respect to subjectivity, you  
2 will also hear that this methodology, it's like a  
3 funnel, there's even a diagram in chapter 5 of the  
4 EIS, and that all sorts of inputs and bits of  
5 information and analysis get put into this funnel.  
6 And the funnels run a number of times. And as the  
7 funnels run, routes get eliminated. And you don't  
8 go back and reconsider routes once they have been  
9 eliminated. So, for example, once the border  
10 crossing was selected, it eventually gets shifted,  
11 and some potentially viable routes to that revised  
12 border crossing that had previously been  
13 eliminated, they still might have been viable, but  
14 nonetheless Hydro did not go back and reconsider  
15 them because the process says you don't do that.  
16 And conceptually that's one of the prices that you  
17 pay for this particular model is the elimination  
18 of potentially viable routes, regardless of change  
19 of information or circumstance. I suspect you'll  
20 hear that's an acceptable price to pay given all  
21 of the other alleged benefits you'll be told  
22 about. But some routes that are eliminated are  
23 like zombies. No matter how many times they get  
24 eliminated, they keep coming back to life.

25                   And that brings us to the final

1 preferred route that Hydro will be asking you to  
2 bless. It's based on one of those zombie routes.  
3 So the final border crossing was selected and the  
4 routes that went to it was a route called AQS, and  
5 that route forms the foundation for the final  
6 preferred route. But in round two of the process,  
7 there were a number of alternatives variations on  
8 that AQS route that you'll hear a lot about over  
9 the coming days. And after various engagement  
10 activities, both with the public, First Nations,  
11 Metis, other activities that were undertaken, a  
12 number of variations of AQS make their way to the  
13 preference determination stage.

14           And there's four finalists. Two of  
15 those finalists you'll hear a lot of evidence  
16 about, at least when I'm at the microphone, AY and  
17 SGZ. There were two other routes that also made  
18 it to the final four. One of the routes, however,  
19 that was eliminated was a route called SIL. But  
20 even though it was eliminated, someone at Hydro  
21 suggested that it be put back in. So instead of  
22 four routes going to the final stage, five routes  
23 went. And the process worked the way it was  
24 supposed to. Various scores of 1, 2, 3 were  
25 attributed, various weightings were applied. And

1 wouldn't you know it, SIL comes in third. Two  
2 routes beat it, including one of the routes that  
3 the Coalition will be speaking a lot about, AY.

4           So you would think at this point,  
5 having been eliminated twice, the SIL route would  
6 be off the table. But like any good zombie in a  
7 movie, SIL just won't stay dead. Someone suggests  
8 that it get put back in, and notwithstanding that  
9 it's already been eliminated twice, and the scores  
10 are redone so that SIL is the successful route.

11           Now, rather than endorsing the zombie  
12 route that Hydro will be asking you to accept,  
13 there's a better alternative that's available, and  
14 it will be one that will be discussed when Bob  
15 Berrien, who has presented before this Commission  
16 before, appears. That route will be a modified  
17 version of AY and SGZ. And that alternative  
18 route, at least in our respectful submission,  
19 better reflects and respects accepted routing  
20 principles in Canada. It will have less impact on  
21 landowners in Tache and La Broquerie, and it may  
22 very well result in less delay than the current  
23 proposed route.

24           You'll hear a lot of talk about delays  
25 that were taken into account by Hydro. You'll

1 also hear about delays that were not taken into  
2 account by Hydro. And those are delays that  
3 resulted from landowners exercising their rights.  
4 Those are delays that were intentionally excluded  
5 from consideration by Manitoba Hydro. And that  
6 when those delays are taken into account, the  
7 alternative being proposed by the Coalition may  
8 actually result in less delay than some of the  
9 other routes that Manitoba Hydro has considered,  
10 and less delay than the route that they have  
11 actually put forward here today.

12 So if you agree with the Coalition's  
13 position, we will be asking you to refrain from  
14 recommending that Manitoba Hydro receive the Class  
15 3 licence until such time as they have selected a  
16 more appropriate route. Put differently, there  
17 should be a round four so that some of the  
18 outstanding issues and concerns that I'm sure you  
19 may hear about from some of the other  
20 participants, and from Hydro themselves, from the  
21 alternative that's been suggested can be taken  
22 into account.

23 Alternatively, you could suggest that  
24 the first and the final thirds of the proposed  
25 route be licensed, while Hydro does a truncated

1 round four to correct the flaws and deficiencies  
2 in the middle third of the route. But I told you  
3 I'd tell you why you shouldn't do that, even  
4 though you can and perhaps will do that, and  
5 that's because the Commission needs to send a  
6 message to Manitoba Hydro.

7           So Manitoba Hydro does not have  
8 permission to construct the route along the  
9 current proposed route. But you wouldn't know  
10 that from the way that they're acting. Land  
11 surveyors are out, easements are being offered to  
12 landowners, money is being offered. They have  
13 even started to purchase houses along the route.  
14 And they don't have permission to build there yet.  
15 Even this morning you heard Mr. Bedford say, "when  
16 it is licensed." Well, that's treating this  
17 process like it's a mere formality, like the  
18 outcome is a foregone conclusion. You aren't a  
19 rubber stamp, and it almost seems that's what  
20 Hydro is counting on. You have a statutory  
21 mandate and you have heard some people talk about  
22 that this morning.

23           So given your blessing, at least in  
24 the Commission's perspective, to this flawed  
25 routing methodology, that's going to be put before

1 you, you will be doing a tremendous service to  
2 Manitobans, and that if the Commission simply  
3 rubber stamps what Hydro is asking both with  
4 respect to the routing methodology and the route  
5 itself. The message that you're sending to  
6 Manitoba Hydro, it's the wrong message, and that  
7 message would be "Ask and you shall receive."

8           The Coalition is asking that you send  
9 a different message to Manitoba Hydro. And it's  
10 twofold: First, that the Commission demands  
11 better from Manitoba Hydro, and that's because  
12 Manitobans deserve better.

13           Thank you very much.

14           THE CHAIRMAN: Thank you, Mr. Toyne.  
15 Our next participant opening statement will be  
16 from Dakota Plains Wahpeton Oyate.

17           MR. MILLS: Good morning,  
18 Mr. Chairman. You're probably anticipating that  
19 we're getting out early.

20           My name is Warren Mills. I and my  
21 business partner, John Stockwell, assist Dakota  
22 Plains Wahpeton Oyate. Sitting to my left is  
23 Craig Blacksmith, who is a spokesperson for Dakota  
24 Plains.

25           On behalf of hereditary Chief Orville

1 Smoke and his council of elders, we have been  
2 asked to listen to and understand or attempt to  
3 understand what Manitoba Hydro is up to, and  
4 provide that information to the Chief's council of  
5 elders, and respond with their comments, thoughts  
6 and concerns.

7 We wish to thank Mr. Bedford for  
8 Hydro's opening comments, and we certainly heard  
9 some language in there that is of interest to us  
10 and we look forward to reading those transcripts  
11 tomorrow and confirming, in fact, what he said.

12 We must open by commenting that we  
13 certainly appreciated your acknowledgment that  
14 we're on Treaty land and that we're within the  
15 Metis territories. We are also, Mr. Chairman, on  
16 lands that the Dakota Sioux have ceded or vested  
17 to the Crown by any agreement whatsoever. And  
18 Dakota Plains, to be very clear, is one element,  
19 one group of the Dakotas. And we don't pretend,  
20 nor do we have authority to speak on behalf of all  
21 of the Dakotas per se. Chief Smoke wanted me to  
22 be crystal clear that we are here on behalf of the  
23 members of the Dakota Plains.

24 As you would know, Mr. Chairman, we  
25 come without legal assistance. My mother warned

1 me about taking a knife to a gun fight, but we  
2 will attempt to see what we can do.

3           The community of Dakota Plains, when  
4 we talk to them and when we listen to them, they  
5 ask us to voice several concerns. First and  
6 foremost is they question the authority of the  
7 Crown to access these never surrendered lands.  
8 The trade route between Red Lake and the Red and  
9 Assiniboine is a significant part of the Dakotas'  
10 territory and lands travelled. And Craig will  
11 speak to that shortly and provide some further  
12 description.

13           The members of the community indicate  
14 that Mother Earth is of significant concern to  
15 them. This Clean Environment Commission is going  
16 to hear talks of all sorts of things, routes and  
17 in matters of lands and path and direction. We  
18 enjoy and respect those discussions and we may  
19 participate, but our emphasis will be on Mother  
20 Earth and the Dakota Plains concern that it  
21 appears to be under continuous attack. And they  
22 ask us to make all efforts to ensure that the  
23 Clean Environment Commission includes in their  
24 recommendations firm, fair recommendations of care  
25 and concern as to Mother Nature.

1                   We come here with no false  
2    expectations. We don't expect that the Dakota  
3    Plains community will cause this Commission or  
4    Manitoba Hydro to make substantive changes to what  
5    they do. But we do believe that there are  
6    numerous micro matters that we have concerns about  
7    and that we believe we can provide good inclusions  
8    in what we anticipate and candidly expect will be  
9    a long list of recommendations to the Minister.

10                  We do have concerns as to the process  
11    itself. We enjoy and appreciate that the director  
12    and her team are here. We've often wondered if  
13    she hears us, Mr. Chairman, and we know that today  
14    she does. We observe that within the Environment  
15    Act, her Minister has two mandatories. The  
16    Minister must consider the greenhouse gas  
17    component of this project and the Minister must  
18    consider the energy efficiency of this project.

19                  We intend to vigorously test the  
20    applicant's witnesses in regards to those two  
21    matters. And we expect that the witnesses they  
22    will provide us as to their EMF will be thoroughly  
23    tested and vetted. And we note with significant  
24    disappointment that once again the Clean  
25    Environment Commission will be asked to consider a

1 mandatory, within the Environment Act, that being  
2 greenhouse gas assessment, without the authors  
3 that Hydro relies upon being present.

4           We will, in their absence, test the  
5 value of the greenhouse gas information that Hydro  
6 provides, and we will also thoroughly test the air  
7 quality matters that Manitoba Hydro's consultants  
8 speak to.

9           In closing, Mr. Chairman, we  
10 appreciated Mr. Bedford's comments that Manitoba  
11 Hydro has learned from the past, as have we, and  
12 we intend to talk about matters before this  
13 Commission in relation to other work that Hydro  
14 has previously done. And we think that a lot can  
15 be learned from the conditions that this  
16 Commission applied to Bipole III. And I think  
17 that there will be, we trust that you will allow  
18 some discussion as to whether or not those  
19 conditions can be strengthened, or stiffened, or  
20 additional reporting to those conditions could be  
21 applied.

22           I realize that you'd like us to move  
23 along. I noted you checked your watch,  
24 Mr. Chairman. I'll ask Craig Blacksmith to speak  
25 to the Dakota Plains.

1 MR. BLACKSMITH: Good afternoon,  
2 Commission. Thank you, Warren. Fellow greetings  
3 to our fellow proponents.

4 My name is Craig Blacksmith and I'm  
5 from Dakota Plains Wahpeton Oyate. Our history as  
6 Dakota people basically hasn't been told properly  
7 by the Canadian Government through the education  
8 system. I'm going to read something from the  
9 Dominion Lands Act, which was passed in 1872. Any  
10 person, male or female, who is the sole head of  
11 the family, or any male, who has attained the age  
12 of 18 years, shall be entitled to 160 acres of  
13 unappropriated Dominion lands for the purpose of  
14 securing a homestead right.

15 Our Dakota people were never afforded  
16 this right. In the Dominion Lands Act on page --  
17 what I read from was page 34. Page 43 they make  
18 mention of Indians.

19 We as Dakota people, we do not  
20 recognize ourselves as anything other than Dakota  
21 people. We are not indigenous or First Nation or  
22 Indians according to the Crown or the Government  
23 of Canada.

24 Our people were had economic  
25 sovereignty as late as 1956. 1956 food rations

1 first came to our people. And the Canadian  
2 government restricted the economic development of  
3 our people to the point where rations had to be  
4 delivered to our people. And these economic  
5 sanctions are being subjected to our people by the  
6 Indian Act.

7 We have records which we will make  
8 light to the Commission and to the other  
9 proponents that the Dakota people were never  
10 dependent on the federal government.

11 The name of this project is called  
12 Manitoba-Minnesota transmission. Our people had  
13 been deemed refugees by the Canadian government  
14 and this is what is being used against us and  
15 against our traditional leader, Orville Smoke, and  
16 our people. Minitopa (ph) was the name given to  
17 Portage la Prairie. Minitopa is Manitoba.  
18 Minishota (ph) is smoky water which is the name  
19 given to the State of Minnesota. North Dakota  
20 sits south of us across the 49th Parallel. And  
21 somehow our Dakota people were deemed to be  
22 refugees and we never crossed that imaginary line.  
23 Information and letters from the government which  
24 I will also make public.

25 My colleague Warren Mills stated that

1 we would not interfere or try and impede the  
2 progress. That's not the intent of our  
3 presentation. The intent of our presentation is  
4 to bring to light the history of our Dakota  
5 people. And we at one time had economic  
6 sovereignty.

7           The City of Portage la Prairie in  
8 1911, March 27, 1911, passed a motion asking the  
9 federal government to remove Dakota people from  
10 Portage. In turn, Dakota people, some had moved  
11 to different communities but the core group stayed  
12 and were relocated to a neighboring First Nation.  
13 Land was purchased from the First Nation. This is  
14 where the Dakota people were moved to.

15           As I had stated that we had economic  
16 sovereignty up until that point and now the  
17 federal government has created a dependency on our  
18 people. We had never been given the respect of  
19 people, we had never been afforded the right  
20 accorded under the Dominion Lands Act, and this is  
21 something that has to be addressed.

22           In closing, I'm going to make mention  
23 of the Manitoba Hydro Act. We are not dealing  
24 with the regular corporation that registers itself  
25 down on Broadway and Kennedy. Manitoba Hydro was

1 approved by the Province of Manitoba, and it reads  
2 as follows:

3 "Her Majesty, by and with the advice  
4 and consent of the legislative  
5 assembly of Manitoba, enacts as  
6 follows:"

7 And there's provisions in here that  
8 Manitoba Hydro does not even need the approval of  
9 the people to do any of its projects.

10 We're sitting here without legal  
11 counsel because we have come to realize that legal  
12 counsel is always in a conflict of interest when  
13 dealing with issues with the government. Legal  
14 counsel has already sworn our allegiance to the  
15 Crown and as such are working as agents of the  
16 Crown.

17 A message from our Dakota people has  
18 said we would like our economic sovereignty  
19 restored. Thank you.

20 THE CHAIRMAN: Thank you,  
21 Mr. Blacksmith and Mr. Mills. That concludes the  
22 opening statements from the participants and the  
23 proponent and I think we have got time, if Hydro  
24 is willing, to begin the introduction and project  
25 description. Are you prepared to do that? Yes?

1 Thank you.

2 Before you begin your presentation  
3 once you are all up there, we will ask you to  
4 state your name and to affirm. Thank you. And it  
5 will just be the front row that needs to affirm.

6 MS. JOHNSON: Could you please state  
7 your names for the record?

8 MR. SWATEK: Yes, my name is David  
9 Swatek.

10 MR. MAILEY: Good morning, my name is  
11 Shane Mailey.

12 MS. S. JOHNSON: My name is Shannon  
13 Johnson.

14 MR. MATTHEWSON: My name is James  
15 Matthewson.

16 (David Swatek, Shane Mailey, Shannon Johnson and  
17 James Matthewson, sworn)

18 THE CHAIRMAN: Okay. Go ahead.

19 MS. S. JOHNSON: Good morning. Before  
20 starting, Manitoba Hydro would wish to acknowledge  
21 all the participants today, the people in the  
22 communities and the lands they represent. Both  
23 this hearing and the project, if licensed, are on  
24 the land they live on and utilize.

25 My name is Shannon Johnson and I'm the

1 manager of licensing and environmental assessment  
2 for Manitoba Hydro. And it's my pleasure to kick  
3 off Manitoba Hydro's presentation of the  
4 Manitoba-Minnesota Transmission Project.

5 One of the rules of licensing an  
6 environmental assessment department is to  
7 development environmental assessments for linear  
8 developments such as the Manitoba-Minnesota  
9 Transmission Project. And as such, I work with  
10 many of the presenters you will see over the  
11 coming weeks.

12 Manitoba Hydro appreciates the  
13 opportunity to take you on a journey of how we  
14 planned, routed and assessed the project, as well  
15 as how we incorporated feedback through the public  
16 and First Nation and Metis engagement processes.

17 While there are many familiar faces in  
18 the room from previous hearings, we also look  
19 forward to working with some of the new faces we  
20 see here today.

21 Manitoba Hydro will have nine panels  
22 with a variety of topics that we will be  
23 presenting over the next couple weeks. Today,  
24 myself, Mr. Shane Mailey, Vice-president of  
25 Transmission, Dr. David Swatek, Manager of System

1 Planning, and Mr. James Matthewson, Senior  
2 Environmental Officer in Licensing and  
3 Environmental Assessment, will be providing you  
4 with a high level overview of the project.

5 I will begin by providing background  
6 on how we got here. Mr. Mailey and Dr. Swatek  
7 will provide a high level overview of the project  
8 itself. And actually Mr. Matthewson is going to  
9 take us on a pictorial trip of what the route will  
10 look like. And with that, let's let the journey  
11 begin on how we got here today.

12 In order to proceed with the project,  
13 Manitoba Hydro needed approval through the Needs  
14 For and Alternatives To process, which reviewed  
15 the preferred development plans proposed by  
16 Manitoba Hydro. The plan included the  
17 construction of a 500 kV international power line,  
18 now known as the Manitoba-Minnesota Transmission  
19 Project. The hearing took place in 2013, and the  
20 Public Utilities Board issued a report  
21 recommending moving forward with the project.  
22 This was accepted by the province in June of 2014,  
23 and it authorized Manitoba Hydro to enter into  
24 agreements and take all necessary actions related  
25 to the construction and operation of a new

1 transmission interconnection.

2           The Needs For and Alternative process  
3 provided for a fulsome review of the need for the  
4 project and comparisons to alternative plans.  
5 This included detailed financial review, and as  
6 such these topics will not be covered as part of  
7 this process.

8           So now that we had approval to build  
9 an international power line, Manitoba Hydro had to  
10 determine where it would go, which began the  
11 environmental assessment process, which resulted  
12 in the Environmental Impact Statement we will be  
13 reviewing over the coming days.

14           The Environmental Impact Statement was  
15 based on four rounds of public engagement and  
16 Metis engagement starting in 2013, two year multi  
17 season, multi discipline biophysical field program  
18 starting in 2014, data requests and key person  
19 interviews with government departments,  
20 organizations and stakeholders. This resulted in  
21 the filing of a 24 stand-alone chapter  
22 Environmental Impact Statement in September 2015.

23           In order to proceed with the project,  
24 Manitoba Hydro will need approvals from both the  
25 Provincial and Federal levels, and as such

1 Manitoba Hydro developed the EIS to meet the  
2 requirements of both of these processes.

3 Now, let's talk a bit about the  
4 Provincial review process. Ms. Braun did a much  
5 better job than I can in one slide, and I think  
6 it's suffice to say that in October 2016,  
7 confirmation that the EA process was completed and  
8 that the CEC process could begin was given. And  
9 as such, that really takes us to where we are  
10 today.

11 Manitoba Hydro hosted a pre hearing  
12 presentation to facilitate the understanding of  
13 the routing process in January 2017, as part of  
14 this process. We have also completed a  
15 multi-round information request process with 795  
16 information requests and close to 1,400 questions  
17 within those information requests from the CEC and  
18 the participants.

19 Now, while the number of information  
20 requests was large, it gave Manitoba Hydro the  
21 opportunity to provide further background on  
22 various aspects of the Environmental Impact  
23 Statement.

24 Manitoba Hydro filed the final round  
25 of IRs on April 13th, and we have now arrived at

1 day one of the hearing.

2 I'd now like to give a bit more detail  
3 on what we will be presenting over the coming  
4 days. I have already described what you will see  
5 today. The remaining presentations will be made  
6 by people with expertise in their field and will  
7 provide a more detailed explanation of the  
8 different facets of the project. The topics will  
9 include engagement, a review of both the public  
10 and First Nation and Metis engagement processes,  
11 routing. As mentioned, as part of the pre hearing  
12 activities, Manitoba Hydro provided background on  
13 the methodology. The presentations you will see  
14 in the coming days will delve deeper into the how  
15 and why of the decision-making associated with  
16 routing.

17 We'll have a presentation on  
18 construction, operations and property. The  
19 presenters here will show you how we will  
20 construct the project and the measures that we put  
21 in place to mitigate effects on the environment,  
22 including an overview of our vegetation management  
23 practices and our bio-security standard operating  
24 procedures. We will also talk about Manitoba  
25 Hydro's property policy. This will be followed by

1 methodology and approach, where we will give a  
2 background on how we approach the assessment  
3 itself and the process used to predict the  
4 environment and effects of the project on people  
5 and the environment. Then we will talk about  
6 electric and magnetic fields.

7                   Dr. Bill Bailey will be here  
8 presenting for us, and he is one of the foremost  
9 experts in the field of electrical and magnetic  
10 fields.

11                   We will then have presentations on the  
12 socio-economic environment, which will include  
13 topics such as agricultural and visual quality.  
14 This will be followed by a biophysical panel,  
15 which will include presentations on topics such as  
16 fish and fish habitat, and wildlife and wildlife  
17 habitat.

18                   We will finish out our presentations  
19 with an overview of the environmental protection  
20 program, where we will talk about how we will  
21 protect the environment and then how we will  
22 monitor those activities so that we can validate  
23 the predictions in the environmental impact  
24 statement.

25                   As we go through the presentations

1 over the coming days, you are going to see some  
2 themes. The first includes a team approach taken  
3 in the development of the EIS and in  
4 decision-making.

5           The EIS was developed using the  
6 expertise and perspectives from close to a hundred  
7 individuals from a wide variety of disciplines.  
8 While the number is simply too large to have every  
9 one of them here, many of them you will see  
10 presenting over the coming weeks.

11           As will be described in much more  
12 detail during the routing presentation, a team  
13 approach was used in order to leverage the  
14 expertise and perspectives from many of these  
15 individuals. This approach also included the  
16 public and First Nation engagement process.

17           All of this contributed to  
18 decision-making when it came to routing this  
19 project. Decisions regarding route selection were  
20 guided by a framework, and decision-making was  
21 made by a multi-disciplinary team leveraging the  
22 expertise and collective knowledge of more than 60  
23 professionals.

24           One of the other themes that you are  
25 going to see in the presentations is transparency.

1 For example, in order to provide detail as to how  
2 this team approach worked and details into the  
3 background of the decision-making, Manitoba Hydro  
4 committed itself to a more transparent process  
5 such that we could better share information.

6 Manitoba Hydro made the decision to  
7 share the details through meeting notes of what  
8 transpired at milestones and key decision points  
9 during the routing process. The reasoning behind  
10 this was to provide background and try to create  
11 understanding on what drove these decisions.

12 Manitoba Hydro also wanted to provide information  
13 and transparency through the public and First  
14 Nation and Metis engagement processes. And to do  
15 that, we engaged earlier and with a broader reach  
16 using a variety of communication tools.

17 We had four rounds of public  
18 engagement, notification to more than 25,000  
19 individuals, including press releases, letters,  
20 postcards, e-mail campaigns, telephone calls,  
21 newspaper and radio advertising, social media  
22 posts and website updates. Public engagement  
23 involved more than 30 open houses and numerous  
24 meetings and stakeholder workshops with the  
25 establishment of several landowner information

1 centres.

2                   The First Nation and Metis engagement  
3 processes involved 13 First Nations, the Manitoba  
4 Metis Federation, four Aboriginal organizations,  
5 and more than 90 leadership meetings, community  
6 open houses, information sessions, workshops and  
7 field visits.

8                   Manitoba Hydro's engagement process  
9 has been evolving over the last several years.  
10 And that leads me to the next theme you will see  
11 both in the EIS and in coming presentations,  
12 commitments to lessons learned.

13                  Manitoba Hydro has been constructing  
14 and operating transmission lines in the province  
15 for more than 50 years and has completed several  
16 environmental assessments on different projects.  
17 Part of that process is a review to see what went  
18 well and what could be done better. So you will  
19 see in the EIS references to learnings from past  
20 assessments and things that have been raised  
21 through previous EAs. Some of the results of that  
22 is adding more clarity in the analysis process,  
23 more inclusive cumulative effects assessment, a  
24 better integration of Aboriginal traditional  
25 knowledge, and more concise, plain language

1 approach to writing. Regulatory oversight has  
2 also provided an opportunity to learn and do  
3 better.

4 One of the recommendations that came  
5 from Bipole III from the Clean Environment  
6 Commission was to develop a more streamlined, open  
7 and transparent approach to route selection,  
8 making more use of quantitative criteria. This  
9 contributed to the routing methodology that we  
10 have done and what you're going to see in the  
11 coming days.

12 Manitoba Hydro looks forward to  
13 presenting the highlights of the EIS and answering  
14 questions. Manitoba Hydro is confident in the  
15 route that it is proposing, and after considering  
16 project effects and measures taken to avoid or  
17 lessen potential negative effects, Manitoba Hydro  
18 has concluded that this project will not result in  
19 significant effects to the biophysical or  
20 socio-economic environments. How we made that  
21 determination will be presented over the coming  
22 days.

23 I am now going to pass it over to  
24 Mr. Shane Mailey and Dr. David Swatek, who will  
25 describe the project itself to you.

1 MR. MAILEY: Good morning and thank  
2 you for this opportunity to present to the  
3 Commission.

4 I would like to start with a high  
5 level overview of the Manitoba Hydro system.  
6 Manitoba Hydro's existing supply resources can be  
7 divided into four resource types: Hydroelectric  
8 generation, thermal generation, wind generation  
9 and imports.

10 Hydroelectric power is by far the most  
11 significant resource in the Manitoba Hydro  
12 generating system, providing almost 90 per cent of  
13 the generating capacity that Manitoba Hydro owns,  
14 and typically about 98 per cent of electric  
15 energy.

16 Generating stations located along the  
17 lower and upper Nelson River contributes  
18 approximately 75 per cent of Manitoba Hydro's  
19 current hydroelectric capacity. Manitoba Hydro  
20 has 15 hydrogen rating stations on five river  
21 systems.

22 Manitoba Hydro has two thermal  
23 generating systems located in Brandon and Selkirk,  
24 Manitoba. Thermal resources offer important  
25 support in Manitoba Hydro's system. Thermal

1 resources can be used for capacity purposes to  
2 help meet peak loads during winter or when there  
3 are hydro generation outages. In a drought,  
4 thermal resources would be expected to produce  
5 energy. Thermal resources can also be used as a  
6 source of supply during major transmission or  
7 other outages, and for local area electrical  
8 requirements.

9 Manitoba Hydro has purchased the  
10 entire output of the St. Leon and St. Joseph wind  
11 generation farms in Manitoba. The combined  
12 maximum hourly generation capability of the two  
13 wind farms is 258 megawatts. Wind generation is  
14 an intermittent resource in that hourly wind  
15 generation can only be relied upon when wind  
16 resources are available, and are a function of the  
17 current wind speed.

18 Manitoba Hydro has four import  
19 contracts currently in effect, imports of energy  
20 from a large power market such as MISO, whose  
21 resources are predominantly thermal and pose very  
22 little delivery risk due to lack of energy supply.

23 There are two major components of the  
24 Manitoba Hydro system currently under  
25 construction, that being the Bipole III

1 transmission project and the Keeyask Generating  
2 Station. The Bipole III project adds  
3 2,000 megawatts to Manitoba Hydro's high voltage  
4 direct transmission capacity, increasing our  
5 ability to deliver renewable electricity from  
6 hydrogen generating stations in northern Manitoba.  
7 Once completed, Bipole III will strengthen  
8 reliability and security in Manitoba's electricity  
9 supply by reducing dependency on existing high  
10 voltage direct current transmission lines and the  
11 Dorsey converter station. We currently rely on  
12 these facilities to deliver over 70 per cent of  
13 the electricity produced in the province.

14           The Keeyask project is a 695 megawatt  
15 hydroelectric generating station located  
16 approximately 725 kilometres north of Winnipeg on  
17 the lower Nelson River. When completed it will  
18 add approximately 4,400 gigawatt hours of  
19 renewable electricity per year to Manitoba Hydro's  
20 total supply.

21           This map illustrates the transmission  
22 system in Manitoba. The transmission system has  
23 two major components, the alternating current, AC  
24 transmission system, and the high voltage direct  
25 current DC transmission system.

1                   As approximately 70 per cent of the  
2 existing hydro generation capacity in Manitoba is  
3 located on the lower Nelson River near Gillam,  
4 some 800 kilometre north of the major population  
5 load centre in Winnipeg, Manitoba Hydro's  
6 transmission systems features a major north/south  
7 transmission element, that being the HVDC system.

8  
9                   The existing HVDC system was designed  
10 to bring the combined output of the Kettle, Long  
11 Spruce and Limestone generating stations in the  
12 Gillam area, south to the Dorsey converter station  
13 northwest of Winnipeg near Rosser, Manitoba.

14                   The existing HVDC system consists of  
15 Bipole I and Bipole II and connects to the  
16 northern collector system. Bipole I consists of  
17 the northern Radisson AC/DC converter station, a  
18 500 kV DC transmission line from Radisson to  
19 Dorsey, and a DC/AC converter station at Dorsey.

20                   Bipole II consists of the northern  
21 Henday AC/DC converter station, a 500 kV DC  
22 transmission line from Henday to Dorsey, and a DC  
23 to AC converter station at Dorsey. The two HVDC  
24 transmission lines which connect the Radisson and  
25 Henday converter stations to Dorsey are

1 approximately 900 kilometres in length and run on  
2 a single right-of-way.

3 The AC transmission system forms the  
4 bulk of the length of the transmission lines in  
5 Manitoba. The system delivers power from Manitoba  
6 generating stations and power supplied from the  
7 HVDC system at the Dorsey converter station to  
8 dozens of electrical stations around the province  
9 and to export market as well. From these  
10 stations, the power is generally delivered to end  
11 use customers through the distribution system.

12 This map illustrates Manitoba Hydro's  
13 transmission interconnections. Manitoba Hydro's  
14 transmission interconnections with adjacent  
15 provinces and states are a very important part of  
16 Manitoba Hydro's transmission system. These  
17 benefits include improving reliability by enabling  
18 imports during drought conditions and under supply  
19 contingencies -- an example would be temporary  
20 loss of a supply due to equipment outages -- and  
21 increasing revenues by enabling the export of  
22 surplus hydro power and import of market energy  
23 that costs lower than the cost of thermal  
24 resources available within Manitoba.

25 The import capabilities from the

1 interfaces are independent at the present time  
2 since no long term import capability is available  
3 from Ontario or Saskatchewan.

4 Manitoba Hydro's interconnections  
5 provide significant reliability benefits in  
6 several ways, including sharing of generation  
7 contingency reserves, sharing of capacity  
8 resources due to load diversity, importation of  
9 energy during drought conditions or extreme supply  
10 loss in Manitoba, and the ability to supply  
11 cross-border load when this load is isolated from  
12 the system.

13 The MMT project includes a 213  
14 kilometre long 500 kV AC transmission line from  
15 Dorsey station to the U.S. border. Station  
16 upgrades are also required at Dorsey station, Riel  
17 and Glenboro station. The updates to Dorsey  
18 station are required to terminate the transmission  
19 line. The Riel station upgrades include adding a  
20 500 to 230 kV transformer bank and associated  
21 equipment, which is required to transfer maximum  
22 power along the MMTP transmission line during an  
23 outage or bank failure at Dorsey or Riel. The  
24 transmission system needs four banks between the  
25 two stations once MMTP is in the system, and

1 currently there are only three banks.

2 Glenboro South Station upgrades  
3 include the addition of two phase shifting  
4 transformers and associated station modifications.

5 A phase shifter is a type of transformer that is  
6 used to control power flow by adjusting phase  
7 displacement of the input and output voltage.

8 When there's a certain amount of power generation  
9 in the system, electricity can inadvertently flow  
10 through Glenboro to Rugby line. These phase  
11 shifters are required to control power flow and  
12 manage congestion in the transmission system for  
13 maximum transfer capability along the MMTP  
14 transmission line. It is a congestion management  
15 tool to avoid overloading particular tie lines  
16 during maximum transfers.

17 The MMTP transmission line will  
18 increase our export capacity by 883 megawatts from  
19 2,300 megawatts to 3,183 megawatts. It will also  
20 double our import capacity from 700 megawatts to  
21 1,400 megawatts.

22 So this map illustrates what I just  
23 spoke to in the project overview. Up on the  
24 northwest side of Winnipeg is the Dorsey station  
25 where the line starts. It runs around what we

1 call the south loop, the south side of Winnipeg,  
2 passes by the Riel converter station on the east  
3 side of Winnipeg, and it runs east out towards the  
4 Riel-Vivian corner, and then proceeds south  
5 towards the U.S. border. Also out to the west  
6 there is a red box that you can see is labeled  
7 Glenboro South Station. This is where the phase  
8 shifting transformers I mentioned are located.

9 I'm now going to pass the presentation  
10 over to Dr. David Swatek, who will carry on, on  
11 the line components.

12 MR. SWATEK: Thank you very much.  
13 Good morning panel.

14 I'd like to say a little about the  
15 tower design we will be using for the MMTP. We  
16 are using a lattice steel tower design for minimal  
17 impact. The lattice steel design allows for long  
18 span lengths, which allows for fewer towers on the  
19 right-of-way. These long span lengths and fewer  
20 towers allow us to optimally locate these towers  
21 for minimal impact.

22 The tower design uses a compact Delta  
23 configuration tower head. This reduces the span  
24 length -- this reduces the width of the cross  
25 arms. And while being compact, this tower head

1 allows for electrical clearances to allow for line  
2 work. That's the ability to do maintenance on the  
3 line without taking it out of service, which is  
4 critical to the availability of this important tie  
5 line.

6           On this next slide, we have a map  
7 showing the various tower types used along the  
8 route. The MMTP transmission line route contains  
9 92 kilometres of existing corridor and 121  
10 kilometres of proposed new right-of-way. The  
11 existing corridor will use 100 per cent  
12 self-supporting tower structures, while the new  
13 right-of-way uses 50 per cent self-supporting and  
14 50 per cent guyed towers. The guyed towers are  
15 used over non-agricultural land and swampier land  
16 where that type of tower construction is most  
17 advantageous. The self-supporting structure is  
18 used over agricultural land to reduce the  
19 footprint.

20           The right-of-way required for the  
21 self-supporting tower type is 80 metres, while the  
22 right-of-way for the guyed tower is 100 metres,  
23 which allows for the width of guyed wires.

24           So this slide just has some numbers  
25 that are an overview again of the transmission

1 line on the preferred route. The length is 213  
2 kilometres in total, which now 43 per cent of that  
3 is existing right-of-way and 57 per cent will be  
4 new right-of-way. And of that new right-of-way,  
5 30 per cent of that will be on Crown land, while  
6 70 per cent will be on private land.

7 Now, I would like to say a little bit  
8 about the reliability requirements for this new  
9 line. Manitoba Hydro trades power into the MISO  
10 power pool. That's the Mid-continent Independent  
11 System Operator. And Manitoba Hydro is subject to  
12 NERC reliability standard requirements under  
13 Manitoba regulation 25/2012.

14 Now, these NERC transmission standards  
15 require the transmission system to continue to  
16 serve load following the loss of the single  
17 largest element that impacts that load. Now, this  
18 is referred to as a single contingency event, and  
19 there is a long list of single contingency events  
20 that get studied annually.

21 Now, currently in the MISO trading  
22 pool, loss of the M602F line, that's the existing  
23 500 kV line for Manitoba into Minnesota, this  
24 represents the single largest, or this represents  
25 the largest single contingency event currently.

1                   Now, covering for a single contingency  
2 event is what NERC refers to as category B in  
3 their standards. NERC also has a category C,  
4 which includes coverage for credible double  
5 contingencies, such as the loss of a double  
6 circuit line where two transmission circuits are  
7 carried on the same structure. If you lose the  
8 structure, you lose two lines.

9                   Now, these are deterministic criteria,  
10 whereby we assume that any line can go down at any  
11 time, and the system must be planned for  
12 continuity.

13                   Now, NERC also acknowledges the need  
14 for non-deterministic criteria in what they refer  
15 to as category D events. Now, these are low  
16 probability but high impact events. Now here NERC  
17 requires the planning authority, that would be  
18 Manitoba Hydro, to consider these low probability  
19 but high impact events and develop mitigating  
20 strategies as deemed appropriate.

21                   Now, these two 500 kV lines, the  
22 existing line and the new MMTP, will represent the  
23 sum total of Manitoba's firm electric power import  
24 capability. So the simultaneous loss of these two  
25 lines was studied as a NERC category D extreme

1 event. And the separation between these two  
2 transmission lines was considered as mitigation.

3 Now, by comparison of these two  
4 transmission lines to other critical transmission  
5 corridors, particularly the recent work that had  
6 been done to establish the minimum separation  
7 distance between Bipole III and the existing  
8 Bipoles I and II that are on a common corridor for  
9 900 kilometres, Manitoba Hydro had established a  
10 10 kilometre buffer as being a reasonable  
11 mitigating strategy.

12 Now, following round 1 of the public  
13 engagements, there was strong desire to relax that  
14 10 kilometre buffer to examine routes -- yeah, to  
15 be able to examine additional routes. So at this  
16 point, system planning revisited that 10 kilometre  
17 buffer. We decided that for the Riel-Vivian  
18 corridor, which is in very close proximity to  
19 Winnipeg, we would be able to respond very quickly  
20 to outages affecting that portion of the line. So  
21 it would be permissible to look at routes within  
22 the 10 kilometre buffer along the Riel-Vivian  
23 corridor.

24 However, for the remaining portion of  
25 the line which travels through some remote areas

1 that are harder to access, we insisted on  
2 retention of that 10 kilometre buffer. However,  
3 we felt it necessary to sharpen our pencils on  
4 that, and we commissioned a weather study to look  
5 specifically at extreme weather events in that  
6 southeast corner of Manitoba that could  
7 potentially take out these two lines.

8                   Monte Carlo simulation of tornadoes  
9 was carried out. This Monte Carlo simulation  
10 involved randomly generating 1 million potential  
11 tornadoes being drawn from well-established  
12 probability distributions of tornado intensity,  
13 path length and direction of travel. And the  
14 result of that weather study showed us that a 10  
15 kilometre separation along the north/south portion  
16 of the line is absolutely critical, as there is a  
17 33 year return period for tornadoes whose strength  
18 and travel distance could take out those two  
19 lines.

20                   This 33 year return period is  
21 significant, because in the North American western  
22 interconnection, a 30 year return period is  
23 considered their criteria for determining when  
24 something changes from a low probability but high  
25 impact event to a NERC category C, a credible

1 double contingency which you must protect for.

2 Manitoba Hydro's topology with long  
3 transition lines between generation and load  
4 centres is very consistent with the transmission  
5 topology in the western interconnection, which is  
6 essentially the western half of the North American  
7 continent.

8 Now, something else we learned from  
9 the weather study is that weather patterns in  
10 Manitoba, including tornadoes, they predominantly  
11 travel from west to east. Of course, this makes a  
12 north/south transmission corridor more vulnerable  
13 to being taken out than an east/west. And this  
14 validated our decision that we could relax the 10  
15 kilometre criteria in the Riel-Vivian corridor,  
16 which is an east to west transmission corridor.  
17 The return period for a tornado that can take out  
18 the north/south portion of the line is 33 years,  
19 whereas the return period of a tornado that could  
20 take out Riel-Vivian was 93 years. So that was  
21 quite comforting.

22 So as a result, the 10 kilometre  
23 buffer was retained for the section of the line  
24 between Vivian and the U.S. border, while we  
25 allowed the lines to run on a common corridor

1 between Riel and Vivian.

2 I would now like to pass it on to  
3 Mr. James Matthewson who will show us what these  
4 transmission corridors look like.

5 MR. MATTHEWSON: Good morning,  
6 Commission and participants. I am going to play a  
7 video here, it's about 20 minutes in length. It  
8 is a fly-over simulation of the route from Dorsey  
9 station to the Canada/U.S. border. This  
10 simulation is not intended to render the exact  
11 landscape by which the transmission line will  
12 follow. It is intended only to give an overview  
13 of the different landscapes by which the  
14 transmission line will traverse from Dorsey to the  
15 border.

16 Due to length of this transmission  
17 line we couldn't render all the different  
18 components on the landscape. So the primary  
19 component that were rendered is tree vegetation  
20 that you will see in the video as we fly through  
21 it. And I will provide a bit of a narration as we  
22 go. There are several stops along the way in the  
23 video to illustrate some of the different  
24 components on the landscape that this transmission  
25 line is near.

1 (Video played)

2 The video is broken into three main  
3 components. There will be pauses between each  
4 one. One is the south loop transmission corridor.  
5 The next is Riel-Vivian corridor, as David talked  
6 about. And then the final preferred route, the  
7 new right-of-way in blue.

8 So as David mentioned, Dorsey  
9 converter station is the start point and Riel  
10 converter station is the point by which the  
11 transmission bypass is alongside.

12 This illustrates the expansion of the  
13 Dorsey 500 kV switchyard. And as we fly through,  
14 the orange line will represent the  
15 Manitoba-Minnesota transmission line, also known  
16 as D604I. The other lines that are in existence  
17 will appear on the right with labels. The red  
18 mark on the right-hand side is simply a way-finder  
19 and where we are in the south loop, as we fly  
20 through.

21 This is illustrating the self-support  
22 structures that Dr. Swatek mentioned and the  
23 parallel alignment with the existing transmission  
24 lines when doing tower spotting is also  
25 illustrated. So the two lines on the right are

1 existing transmission lines.

2 We're coming up to the TransCanada  
3 Highway and the Assiniboine River. So at this  
4 point we'll take a brief stop and illustrate some  
5 visualizations from each, from two different  
6 perspectives, the north and the south, to  
7 illustrate what the right-of-way will look like  
8 currently and what it will look like in the  
9 future, if this project is approved.

10 So again the two lines on the left are  
11 currently in place and MMTP is the line on the  
12 right.

13 On the left-hand side of the D604I is  
14 the future St. Vital to Letellier transmission  
15 line that was recently approved -- sorry, St.  
16 Vital to Laverendrye. So it's not been built yet,  
17 it's expected to be construction in 2019.

18 As David had talked about with the  
19 steel lattice structure, you can appreciate the  
20 longer span lengths that that design affords in  
21 these videos.

22 As we're coming up to the Red River  
23 floodway, and here is the point where the  
24 St. Vital-LaVerendrye goes left towards St. Vital  
25 station, and we've also crossed over the St. Vital

1 to Letellier transmission project future.

2 And now the next portion of the video  
3 will be a fly-through through the Riel-Vivian  
4 corridor starting adjacent to the Riel station.  
5 And this time MMTP is highlighted in yellow. And  
6 I'll just stop here briefly and Mr. Swatek will  
7 explain a key design criteria here.

8 MR. SWATEK: All right. Thank you  
9 very much, James.

10 Now, in order for the new MMTP line to  
11 share a common corridor with the existing -- yes,  
12 so in order for the new MMTP line to share a  
13 common corridor with the existing 500 kV line, we  
14 actually do a line swap where the new, to squeeze  
15 them on to the same right-of-way, the new towers  
16 are being built to the north of the existing 500  
17 kV line. So that would require MMTP to cross the  
18 existing 500 kV line, run the 24 kilometre length  
19 of this corridor, and then to cross that line  
20 again to head south. Rather than have those two  
21 tower crossings, what we propose to do is to swap  
22 the towers at that point, to move the existing 500  
23 kV line on to the new MMTP towers to the north,  
24 and to let the new MMTP line run on the existing  
25 M602F towers to the south. And then once we get

1 to the end of the Riel-Vivian corridor, the MMTP  
2 turns and heads south. This way, we avoid having  
3 to build two 500 kV line crossings. The tower  
4 types required for line crossings are much larger,  
5 more substantial, so it's a very nice thing to be  
6 able to avoid that.

7 MR. MATTHEWSON: And also to build on  
8 Mr. Swatek's comments, the transmission line  
9 crossings, it was one of the key decision criteria  
10 for the engineering perspective on any  
11 transmission line of the routes during the  
12 evaluation. So crossing of 500 lines is  
13 especially important.

14 On the left-hand side, you'll see this  
15 is the currently under construction Bipole III  
16 transmission project.

17 As David had mentioned, the  
18 accessibility of this corridor for, in the event  
19 of both lines being taken out of service at the  
20 same time, certainly lends itself to ease of  
21 restoration of service in a very effective and  
22 efficient manner.

23 And now we're approaching the turn to  
24 the new right-of-way, and this is where M602F  
25 reconnects to the existing structures in place.

1 So this is the same crossing point, we're just  
2 coming from the north now.

3 As we approach one of our paralleling  
4 opportunities of R49R, this is an existing 230 kV  
5 transmission line that we are paralleling. Also  
6 by paralleling this existing right-of-way, we are  
7 able to lessen the right-of-way requirement for  
8 MMTP, the additional right-of-way clearing  
9 requirement.

10 As David had mentioned, the cleared  
11 right-of-way width for this portion is 80 metres.  
12 And here we are reconnecting again with the  
13 opportunity of paralleling of the R49R  
14 transmission line again. Passing over the  
15 TransCanada highway near the community of Ritcher.  
16 And here is the point where we switch to a guyed  
17 structure, due to the wet terrain in the area  
18 we've moved to a guyed structure and the  
19 right-of-way is increased to 100 metres in width.  
20 And now as we enter back onto agricultural land,  
21 we switch back to a self-supporting structure  
22 along a parcel line.

23 This is the Quintro Road area which  
24 you will hear more about from the public  
25 engagement panel, with respect to the landowner

1 concerns. And where we develop mitigative  
2 segments to address those concerns during the  
3 routing process.

4           Also from the viewpoint from the town  
5 LaBroquerie, near the school, we wanted to  
6 illustrate there was lots of concerns from the RM  
7 of LaBroquerie, the town, from the perspective of  
8 the proximity of the transmission line. And you  
9 can illustrate the line will appear here and here  
10 in the final. So this is the view point from the  
11 school. It's approximately a mile, a mile and a  
12 half.

13           And this is the Seine River crossing,  
14 as well as a golf course by which we have retained  
15 the shelter belt on the right-hand side of it  
16 through routing to allow that visual barrier to  
17 exist.

18           This was again, we were offset  
19 alignment here to retain the vegetation adjacent  
20 to that home, which we will talk further about in  
21 our routing presentation. We're back to half a  
22 mile alignment.

23           As we move further south of La  
24 Broquerie, more industrial, agricultural  
25 operations exist, and we've been working with

1 those agricultural operators throughout the public  
2 engagement process, and the routing of the line as  
3 well, to mitigate their bio-security concerns.

4           We switch to guyed towers again. This  
5 illustration that we're showing you here is not  
6 showing any vegetation on the right-of-way to kind  
7 of give a full extent of what the right-of-way  
8 will look like immediately after construction.

9 But as illustrated in several plans with respect  
10 to Golden Wing Warblers and Manitoba Hydro's  
11 integrated vegetative management plan, that  
12 right-of-way will return to a shrub, low growing  
13 under storey through management. And much of the  
14 right-of-way in the Golden Wing warbler area will  
15 be retained in the Golden Wing warbler plan.

16           This tower we're coming up here, this  
17 is an example of an angle structure. You can see  
18 we have switched from guyed to self-supporting.  
19 Due to the extra strain of an angle change, a much  
20 more robust structure is required.

21           Another key thing in this structure  
22 design you'll notice is the large frame in the  
23 centre, which as David mentioned was to facilitate  
24 the maintenance of the line and keeping the  
25 conductor separated to allow live line maintenance

1 crews to perform maintenance duties on parts of  
2 the line that need service. By spreading those  
3 conductors apart in that fashion we can facilitate  
4 that.

5 And here's some crossings of the  
6 wetter areas as we move south across the Rat River  
7 and the Caliento and Sundown bogs approaching.

8 This does illustrate the shrubs. We  
9 didn't illustrate the shrubs had been retained on  
10 river crossings as per our riparian buffer  
11 management prescriptions.

12 As we approach the Sundown Road, we  
13 come up to a key landowner consideration that was  
14 discussed, and I'll pause here for a second. This  
15 is the Ridgeland cemetery, which you'll hear more  
16 information about from the public engagement  
17 folks. And we have Loewen (ph) Sand Lake, over  
18 here. It's more of a wetland, the lake is more to  
19 the left, but it was a wetland area. So this was  
20 an area where, as you will note, we have changed  
21 back to a self-supporting structure to narrow the  
22 right-of-way to address concerns, both from a  
23 visual aesthetics perspective at the cemetery, as  
24 well as maintaining this side of trees to help in  
25 mitigation for bird wire contributions. So it was

1 a key area of discussion in the public engagement  
2 as well as the routing process, which we will hear  
3 about more later, as we go through the week.

4 This corner here represents the --  
5 very close to the Watson P Davidson Wildlife  
6 Management Area, which you will see on many of our  
7 maps moving forward as kind of a landmark for this  
8 southeast corner of the province, by which you can  
9 find where the -- as a way marking on our maps.

10 This area is known as the Piney bog.  
11 Again, quite a bit of mitigative segments were  
12 developed in the routing near this area which  
13 you'll hear more about in the routing  
14 presentations and public engagements to come, the  
15 First Nation and the Metis engagement  
16 presentations.

17 And as we approach agricultural land  
18 again, we switch to a guyed structure across this  
19 landscape.

20 The routing of this entire portion of  
21 the line was done quite hand in hand with the  
22 landowner who owns a large portion of this area,  
23 in order to offset a lot of future plans that they  
24 had in place. Pine Creek. And this is the point  
25 at which the transmission line, Manitoba-Minnesota

1 transmission line will end and the Great Northern  
2 transmission line from Minnesota Power will start.  
3 Thank you. (Video finished)

4 THE CHAIRMAN: Would this be an  
5 opportune time to take our break?

6 MS. S. JOHNSON: Yes.

7 THE CHAIRMAN: Thank you very much.  
8 That certainly gives good perspective for the  
9 route. Thank you. So we will adjourn for one  
10 hour, so we will start again at 1:45. Thank you.

11 (Proceedings recessed at 12:42 p.m.  
12 and reconvened at 1:45 p.m.)

13 THE CHAIRMAN: Welcome back, everyone.  
14 I wonder if you can take your seats, and we will  
15 start here in about 30 seconds. Thanks.

16 All right. Before we turn to  
17 questioning, Manitoba Hydro has asked to make a  
18 clarification to this morning's presentation, so  
19 we will let them do that first.

20 Go ahead.

21 MR. SWATEK: Thank you very much.

22 With regards to the two international  
23 power lines, the IPLs, the existing M602F and the  
24 Harvey Glenboro 230 kV line, I just wanted to be  
25 very clear on what the modifications were.

1                   With regards to M602F, Manitoba Hydro  
2 proposes to move a portion of the Riel IPL  
3 45.7 metres north within the existing transmission  
4 corridor. This is between Riel and Vivian.  
5 Tower 6 of the Riel IPL will be removed, and the  
6 existing segment of the IPL from Tower 5 through 7  
7 will be relocated. The Riel IPL will then  
8 continue eastward along a new section of the line.  
9 Existing Towers 61 and 62 of the Riel IPL, and  
10 approximately 1.07 kilometres of transmission  
11 line, will be removed and salvaged.

12                   Now, with regards to the Harvey  
13 Glenboro 230 kV line, in order to accommodate the  
14 phase-shifting transformers, a segment of the IPL  
15 must be relocated. A portion of the IPL will be  
16 salvaged. A new segment of the IPL and one new  
17 permanent tubular steel tower will be built to  
18 connect to the Glenboro Station.

19                   Thank you very much for the  
20 opportunity just to clarify those changes.

21                   THE CHAIRMAN: Thank you very much for  
22 that clarification.

23                   So at this point we will begin the  
24 questioning of Manitoba Hydro's introduction  
25 segment of their overall presentation. And I

1 believe that we've had a change in the order,  
2 which we are fine with. We have indicated to all  
3 participants if they would like to change the  
4 order of their appearance, with the agreement of a  
5 different participant, they are free to do so as  
6 long as you advise the secretary.

7                   So now appearing first will be the  
8 Southeast Stakeholders Coalition, and they will  
9 switch places with the Consumers Association of  
10 Canada. Thanks.

11                   MR. TOYNE: Thank you very much,  
12 Mr. Chair.

13                   All right. So as I'd indicated just  
14 before we started, I have a series of questions  
15 that I suspect will be primarily directed at  
16 Dr. Swatek, and a series of questions directly  
17 primarily at Mr. Mailey, although I appreciate  
18 that you may answer questions collaboratively as a  
19 panel, but that's really what I'm planning to do.

20                   Which one of you won the coin toss?

21                   All right. Well, you know, why don't  
22 I start with Dr. Swatek, just because you are on  
23 the end there.

24                   So my questions for you, sir, are  
25 primarily about the 10-kilometre buffer and the

1 reliability concerns.

2                   Before your part of the presentation  
3 this morning, I'd understood that there were  
4 really three primary reasons for this buffer.  
5 First, the risk of weather impacts damaging both  
6 of those 500-kilovolt lines; second, concerns  
7 about the reliability of import capability if the  
8 HVDC lines were down, or if there was a serious  
9 drought; and finally there were concerns about the  
10 ability to repair the lines, given the distance  
11 from the City of Winnipeg.

12                   But I now understand that there is a  
13 fourth issue, and that's this issue with complying  
14 with those NSERC or NERC reliability standards.  
15 Is that correct?

16                   MR. SWATEK: I believe that those  
17 three points you made are -- that is substantially  
18 it. But the NERC -- well, the compliance with  
19 NERC TPL4, the Category Ds, this compels Manitoba  
20 Hydro to consider low probability, high-impact  
21 events. So as we are considering those, it is  
22 exactly with respect to those three points that  
23 you made, yes.

24                   MR. TOYNE: So why don't we talk about  
25 those standards briefly, because for some of us

1 here today, they were new information today, and  
2 then we will move on to some of those other  
3 issues.

4 So the reasons why those reliability  
5 standards were engaged, you had said, is because  
6 the Province of Manitoba passed a regulation in  
7 2012 mandating Manitoba Hydro comply with them.  
8 Is that correct?

9 MR. SWATEK: Okay. The NERC  
10 reliability standards -- NERC is the North  
11 American Electric Reliability Corporation; they  
12 make standards. Those standards are enforced in  
13 the U.S. by FERC, and here in Manitoba -- they are  
14 enforced by the Manitoba government, through  
15 legislation and regulation.

16 MR. TOYNE: And that's been the case  
17 since 2012.

18 MR. SWATEK: 2012 --  
19 Regulation 25/2012, that's the current regulation.  
20 I would have to check to see if there was  
21 legislation prior to that.

22 MR. TOYNE: Okay, fair enough.

23 And the reason that you had said that  
24 those particular standards were engaged for this  
25 project was the impact that both of those lines

1 going down would have on Manitoba Hydro's ability  
2 to import power from Minnesota. Correct?

3 MR. SWATEK: We consider those  
4 standards for all projects. And in this case the  
5 particular concern was the simultaneous loss of  
6 those two lines during high-import conditions.  
7 Yes.

8 MR. TOYNE: Okay. And the standards  
9 that we are talking about, whether it is TPL3 for  
10 Category C events or TPL4 for Category D events,  
11 those standards require Manitoba Hydro to both  
12 assess risk and take steps to mitigate those  
13 risks; correct?

14 MR. SWATEK: Correct.

15 MR. TOYNE: And the step that was  
16 taken to address the tornado risk for this  
17 particular project was that 10 kilometre buffer?

18 MR. SWATEK: I will say yes. The  
19 10-kilometre buffer gets the risk within a  
20 manageable range.

21 MR. TOYNE: Okay. Now, you had also  
22 made reference to a particular return period, and  
23 you'd indicated that the weather study that was  
24 conducted showed that there was a 33-year return  
25 period. And as I understand it, a return period

1 is just an estimate of how likely a particular  
2 event is.

3 MR. SWATEK: It's the probability.  
4 That means that in any given year, there is a  
5 1-in-33 probability that those lines could  
6 simultaneously be taken down. Yes.

7 MR. TOYNE: So if the return period  
8 was 100 years, it would be a 1 per cent chance; is  
9 that right?

10 MR. SWATEK: That's correct, yes.

11 MR. TOYNE: All right. But of course  
12 you would agree with me that that particular  
13 estimate may not actually be borne out as time  
14 goes on. Right?

15 MR. SWATEK: That is the estimate  
16 produced by the expert we hired to do the study,  
17 Mr. Bob Morris. He was formerly with Environment  
18 Canada and one of the authors of the Canadian  
19 Building Code. There is really no one else more  
20 qualified to make that estimate.

21 MR. TOYNE: Okay. And I appreciate  
22 you may not have this up there in front of you;  
23 normally the panel -- but there is a figure in the  
24 EIS. It is the figure that has the tornadoes  
25 plotted all over it. Are you familiar with that?

1 MR. SWATEK: No. If you could point  
2 us to ...

3 MR. TOYNE: Sure. It is Figure 20-2.  
4 I don't know if the machine in front of Mr. Mailey  
5 can pull that up.

6 MR. SWATEK: One moment.

7 MR. TOYNE: Or perhaps a slightly more  
8 old-school form of pulling the figure up will  
9 happen in the row behind you. It is on page 20-7  
10 of the EIS.

11 MR. SWATEK: I have that, yes.

12 MR. TOYNE: That's an illustration of  
13 the number of tornadoes in southeastern Manitoba  
14 from 1980 until 2009, correct?

15 MR. SWATEK: Correct, yes, right.

16 MR. TOYNE: And at least as I  
17 understand it -- and I'm not the expert; you  
18 are -- at least during that 29-year period, there  
19 were very few, if any, tornadoes in the area where  
20 line M602F is. Would you agree with that  
21 statement?

22 MR. SWATEK: I wouldn't -- I'm not  
23 sure how to categorize "very few."

24 MR. TOYNE: How about zero?

25 MR. SWATEK: In the zone of M602F?

1 MR. TOYNE: Yes. Because that's the  
2 line that the 10-kilometre buffer relates to.

3 MR. SWATEK: There are certainly  
4 tornadoes in that portion of the map. This is a  
5 map of southeastern Manitoba, and it shows a  
6 distribution of tornadoes. These tornadoes are  
7 fairly random, so the fact that there is not a  
8 tornado on a particular spot on the map isn't that  
9 relevant.

10 MR. TOYNE: Maybe a different way to  
11 ask the question is, when was the last time M602F  
12 was damaged by a tornado? Do you know?

13 MR. SWATEK: M602F has not been  
14 damaged by a tornado, no.

15 MR. TOYNE: And how long has that line  
16 been in existence for?

17 MR. SWATEK: That line has been in  
18 service since 1979.

19 MR. TOYNE: So by my math, that's 37,  
20 38 years.

21 MR. SWATEK: That would sound right.

22 MR. TOYNE: Okay. The vulnerability  
23 of the north/south transmission lines to eastbound  
24 tornadoes, that's a fairly well-known  
25 vulnerability in the electricity sector?

1 MR. SWATEK: Weather patterns do tend  
2 to track from west to east. So a north/south line  
3 would have a higher vulnerability, yes.

4 MR. TOYNE: And you would agree with  
5 me that there is a number of steps that can be  
6 taken to address that vulnerability?

7 MR. SWATEK: Really, separation is the  
8 key, the key step. What other steps were you  
9 thinking of?

10 MR. TOYNE: Again, I'm not the expert;  
11 that's you. It struck me, if we are talking about  
12 tornadoes, the elements of tornadoes that could  
13 damage a transmission line would be, say, the wind  
14 speed of the tornado; how wide the path of the  
15 tornado is; and how long the path of the tornado  
16 is. Would those be the three elements of a  
17 tornado that could affect a power line?

18 MR. SWATEK: Those are, certainly,  
19 yes.

20 MR. TOYNE: Okay. And the  
21 10-kilometre buffer that we are talking about,  
22 that only addresses one of those three factors:  
23 How long the tornado is. Right?

24 MR. SWATEK: And that's really all you  
25 can do. You can design towers for various wind

1 speeds, but these are straight-line winds. There  
2 is no design standard for tornadoes, so we look at  
3 the probability of a tornado with a particular  
4 path length, and that's the key mitigation, is  
5 separation.

6 MR. TOYNE: Okay. So a minute ago you  
7 had used the phrase "design standard," and I take  
8 it what you are referring to is that there is no  
9 sort of accepted industry practice for how much  
10 wind speed a power line or a tower should be able  
11 to withstand; is that what you were saying?

12 MR. SWATEK: No, that was not my  
13 comment. There are design standards for  
14 straight-line winds; there are no design standards  
15 for tornadoes.

16 MR. TOYNE: Maybe a different way to  
17 ask the question, then, is the towers that are  
18 being used on MMTP, have any steps been taken in  
19 the design of those towers and intended  
20 construction of those towers to address the risk  
21 posed by tornadoes? And if so, what are they?

22 MR. SWATEK: To address the risk posed  
23 by tornadoes, specifically, no. Those towers are  
24 designed to a 1-in-150-year return period for high  
25 winds. They are designed to a 200 -- those towers

1 are designed to a 105 kilometres per hour  
2 straight-line wind. Now, that's a 1-in-150-year  
3 return period. Yes.

4 MR. TOYNE: All right. So as long as  
5 the wind is not much faster than somebody  
6 traveling along the Trans-Canada Highway, there is  
7 not going to be any issues; is that sort of a  
8 rough-and-ready way to describe it?

9 MR. SWATEK: Yes, that would be fair.

10 MR. TOYNE: Are there ways to design  
11 or construct these towers to have a greater  
12 resistance to straight-line wind speeds?

13 MR. SWATEK: One important design  
14 aspect of these lines is they are designed -- the  
15 MMTP is designed using anti-cascading towers, such  
16 that if one tower falls down, it is not likely to  
17 bring down adjacent towers. That's a key  
18 mitigating strategy that has been employed or will  
19 be employed.

20 MR. TOYNE: And is that a recent  
21 innovation? Or would that have been done on the  
22 M602F as well?

23 MR. SWATEK: That's not a recent  
24 innovation, no.

25 We do not use -- I misspoke; I meant

1 to say we do not use anti-cascading towers on  
2 M602F. Thanks.

3 MR. TOYNE: The distance between  
4 towers, is that distance calculated -- sorry, let  
5 me rephrase that.

6 The distance between towers, does that  
7 distance take into account the potential widths of  
8 a tornado's path in any way, shape, or form?

9 MR. SWATEK: No, it would not.

10 MR. TOYNE: So the tornado that we are  
11 talking about, the one where there is a  
12 1-in-33 per cent, or 1-in-33 chance every year, do  
13 you have any idea how wide that particular tornado  
14 is?

15 MR. SWATEK: I don't have that  
16 information on me, no.

17 MR. TOYNE: You also wouldn't know how  
18 many towers might get taken out by that particular  
19 tornado that's driven this 10-kilometre buffer?

20 MR. SWATEK: No.

21 MR. TOYNE: Although I guess that  
22 would really just be an issue with the M602F, as  
23 opposed to the MMTP, because the MMTP has the  
24 anti-cascading towers?

25 MR. SWATEK: Is that your comment, or

1 a question?

2 MR. TOYNE: I raised my voice at the  
3 end, so I guess it would be a question.

4 MR. SWATEK: I just want to go back to  
5 my previous statement, that for tornadoes versus  
6 straight-line winds, these are very different  
7 phenomena. You can't mitigate for a tornado with  
8 a particular tower design.

9 MR. TOYNE: Says who?

10 MR. SWATEK: Says transmission line  
11 designers across this great nation of ours.

12 MR. TOYNE: Right. And Manitoba Hydro  
13 hasn't made any reference to any of those people  
14 or their statements in the EIS. Right?

15 MR. SWATEK: The design standards are  
16 for straight-line winds for ice loading. That's  
17 what they are. There are no design standards for  
18 tornadoes for towers.

19 MR. TOYNE: My understanding -- and  
20 you can correct me if I'm wrong -- is that there's  
21 a part of the final preferred route east of  
22 Ste. Genevieve down to Giroux that's close to the  
23 10-kilometre buffer, but just a bit outside; do  
24 you know the part of the route that I'm referring  
25 to?

1                   MR. SWATEK: We are just going to  
2 check the map to see exactly what you are  
3 referring to.

4                   MR. TOYNE: Sure.

5                   MR. SWATEK: Okay. I do see that on  
6 the map. Yes.

7                   MR. TOYNE: So as I understand it,  
8 that part of the route doesn't violate the  
9 10-kilometre buffer, but in some areas it is  
10 starting to come close to the edge of the buffer.  
11 Is that a fair statement?

12                   MR. SWATEK: That would be fair.

13                   MR. TOYNE: Are there any concerns  
14 about that particular part of the line, given that  
15 it's close to the buffer, even though it is just  
16 outside?

17                   MR. SWATEK: These concerns are about  
18 averaging, about averaging and averages, and I'm  
19 looking at a very small portion of the line  
20 that's -- that may be coming close there. For a  
21 good chunk of this line, it is actually beyond --  
22 it is outside of that 10-kilometre buffer. I  
23 would not be particularly concerned with that  
24 small encroachment, given the averaging over the  
25 whole length.

1 MR. TOYNE: So let's sort of change  
2 direction just for a minute or two.

3 Does Manitoba Hydro monitor weather?

4 MR. SWATEK: Manitoba Hydro does not  
5 perform its own weather monitoring.

6 Okay, I should clarify. We don't do  
7 it on a long-term basis, but of course our system  
8 control centre is monitoring weather -- is  
9 monitoring weather on a daily basis to take  
10 appropriate action when required.

11 MR. TOYNE: So if conditions that are  
12 favourable to the development, say, of tornadoes  
13 start to arise in a certain part of the province  
14 where you have infrastructure, that's something  
15 that Manitoba Hydro would become aware of and  
16 begin to monitor; is that a fair statement?

17 MR. SWATEK: That is correct, yes.

18 MR. TOYNE: And once you are aware of  
19 those weather conditions, does Manitoba Hydro have  
20 any protocols or policies in place to start to  
21 prepare for potentially damaging weather  
22 conditions?

23 MR. SWATEK: Manitoba Hydro, through  
24 our system control centre, can posture the system  
25 if they feel there is a particular -- a particular

1 threat.

2 MR. TOYNE: And would one of those  
3 threats be tornadoes?

4 MR. SWATEK: It could be. Subject to  
5 check.

6 MR. TOYNE: So if a power line in  
7 southeast Manitoba goes down, where do the repair  
8 crews come from? Are they all Winnipeg-based?

9 MR. MATTHEWSON: I can answer that  
10 question.

11 So there are a variety of line  
12 maintenance crews stationed throughout the  
13 province. There are facilities in Lac du Bonnet,  
14 in Winnipeg; so there are -- Steinbach -- there  
15 are a variety of locations for line maintenance  
16 crews to respond to any outages in the system.

17 And those responses are started by the  
18 employment of Manitoba Hydro's corporate emergency  
19 management plan, and that's the trigger by which  
20 emergency response procedures are initiated and  
21 those particular crews are called to action.

22 MR. TOYNE: So if one or more of the  
23 power lines in the Riel-to-Vivian transmission  
24 corridor goes down, would the repair crews be  
25 coming from Winnipeg, or would they be coming

1 up 12 from Steinbach? Or potentially both?

2 MR. MATTHEWSON: It depends on  
3 staffing availability at the time; the time of  
4 day. It could be coming from both. Likely there  
5 would be -- all available assets in close  
6 proximity may be mobilized to restore service as  
7 quickly as possible.

8 MR. TOYNE: And where M602F starts to  
9 ebb southeast from that transmission corridor, if  
10 that line was damaged, where would the repair  
11 crews be coming from?

12 MR. MATTHEWSON: Likely from the City,  
13 and Lac du Bonnet.

14 MR. TOYNE: What about from Steinbach?

15 MR. MATTHEWSON: Possibly from  
16 Steinbach, because as well, there is a variety of  
17 different crews.

18 I'm just looking at the map behind you  
19 to see who is closest to the response area, so  
20 that's where I was basing my information from.

21 MR. TOYNE: Right. Well, as I  
22 understand it, this 10-kilometre buffer was  
23 particularly problematic, from Manitoba Hydro's  
24 perspective, for the routes that started to --  
25 they went a little bit further east and began to

1 turn south at Vivian, and then head a little bit  
2 more east than the current final preferred route.

3 I guess what I'm trying to figure out  
4 is if you had two power lines in that area that  
5 were close to one another, where the repair crews  
6 would come from. Potentially, all three, again:  
7 Winnipeg, Steinbach, and Lac du Bonnet?

8 MR. MATTHEWSON: Yes.

9 MR. TOYNE: And right now, for M602F,  
10 if one or more towers on that line go down, how  
11 long would it take for Manitoba Hydro to put them  
12 back up?

13 MR. MAILEY: I would say that it  
14 depends, because of the exact location, time of  
15 year, access, because some areas are more easy to  
16 access than others. It also may have to do with  
17 some of the electrical configurations, because we  
18 have to secure and make it safe before staff can  
19 actually go in there. So it can vary.

20 MR. TOYNE: And when we are talking  
21 about damage to these lines from tornadoes, that  
22 would be something that would be either -- what,  
23 spring, summer fall, as opposed to winter?

24 MR. MAILEY: Yes.

25 MR. TOYNE: I'm not familiar with

1 tornadoes in the winter, but --

2 MR. MAILEY: No.

3 MR. TOYNE: So, again, going back to  
4 what I initially understood, one of the concerns  
5 about the lines coming down would be if the HVDC  
6 lines were out. And the HVDC lines, that's  
7 Bipole I, Bipole II, and Bipole III; correct?

8 MR. SWATEK: Correct.

9 MR. TOYNE: And when this 10-kilometre  
10 buffer was requested, Bipole III wasn't licensed  
11 yet. Correct?

12 MR. SWATEK: Bipole III was licensed  
13 at that point, yes.

14 MR. TOYNE: I understood that the  
15 buffer was requested in 2012, and Bipole III  
16 wasn't licensed until 2013.

17 MR. SWATEK: That sounds -- well, the  
18 buffer was requested in late 2012, and we got our  
19 Bipole III licence in 2013, so very close, yep.

20 MR. TOYNE: Okay. And the reason  
21 that's important, at least maybe to me, is because  
22 at the time the buffer is requested, if the HVDC  
23 capacity went down, then Manitoba Hydro would have  
24 a pretty serious challenge in supplying power to  
25 the province of Manitoba. Correct?

1 MR. SWATEK: That is correct, yes.

2 MR. TOYNE: But now, once Bipole III  
3 comes into operation -- I think sometime next  
4 year, 2018?

5 MR. SWATEK: Yes.

6 MR. TOYNE: -- if Bipole I and II go  
7 down, there is far fewer concerns about Manitoba  
8 Hydro's ability to supply to the province of  
9 Manitoba; is that correct?

10 MR. SWATEK: We are certainly helped  
11 by Bipole III, but we still depend on the imports.  
12 If Bipoles I and II go down, we are depending on  
13 Bipole III and the ability to import power from  
14 the U.S.

15 One of the other reasons we are  
16 dependent on imports is in low water years, as a  
17 hydro utility with 98 per cent of our resources  
18 coming from hydraulic generation, we do plan for  
19 drought, yes.

20 MR. TOYNE: I was going to ask a  
21 series of questions about that in a minute or two,  
22 but I will go there now.

23 Just to go back to that slide, I  
24 think, that Mr. Mailey was talking about, that  
25 showed where your different generating stations

1 are --

2 MR. SWATEK: Okay.

3 MR. TOYNE: -- the hydroelectric  
4 generating stations that you have, they are really  
5 on three river systems. You have the Nelson, the  
6 Churchill, and the Winnipeg. Is that a fair  
7 statement?

8 MR. SWATEK: We don't have anything --  
9 they are on Nelson, the Burntwood, and Winnipeg.

10 MR. TOYNE: Right, yes.

11 MR. SWATEK: And --

12 MR. TOYNE: I meant Saskatchewan.

13 MR. SWATEK: And Laurie River on the  
14 Saskatchewan.

15 MR. TOYNE: Right. That's what I  
16 meant.

17 So really, those -- Manitoba Hydro's  
18 hydroelectric generating capacity is on three  
19 river systems?

20 MR. SWATEK: We believe it's a total  
21 of five, yes.

22 MR. TOYNE: Okay. Okay. So what sort  
23 of drought conditions on those five river systems  
24 have to be in place so that Manitoba Hydro would  
25 be required to import power as opposed to export

1 power?

2 MR. SWATEK: The technical nature of  
3 the drought, I'm not sure how to characterize  
4 that. But we have certainly, in my history, we  
5 have had drought conditions where we have been  
6 dependent on imports.

7 MR. TOYNE: And how often has that  
8 happened?

9 MR. SWATEK: The last significant  
10 drought was 2003, 2004.

11 MR. TOYNE: If we can go back to this  
12 return-period concept that you were referring to  
13 earlier. What is the return period for the type  
14 of drought that would require power to be  
15 imported? Do you know?

16 MR. SWATEK: We don't believe they are  
17 characterized by a return period. We look at  
18 worst-case historical droughts, and we plan for  
19 continuity.

20 MR. TOYNE: So tornadoes, it is  
21 probabilities; droughts, it is worst-case  
22 scenario?

23 MR. SWATEK: Yes.

24 MR. TOYNE: I think that's the bulk of  
25 the questions that I had for you, Doctor, so now I

1 will turn to the questions that I suspect will be  
2 primarily answered by Mr. Mailey.

3 Sir, as I understand it, you were in  
4 your current position, which is VP transmission,  
5 when the decision to adopt the EPRI-GTC  
6 methodology was made. Is that correct?

7 MR. MAILEY: The actual adoption of  
8 the methodology was prior to my current role, just  
9 by a few months, or a year.

10 MR. TOYNE: Okay. So when did you  
11 become vice president transmission?

12 MR. MAILEY: Approximately three and a  
13 half years ago.

14 MR. TOYNE: So which month in 2013?

15 MR. MAILEY: It would have been July.

16 MR. TOYNE: Okay. All right. So by  
17 that point, then -- well, I guess, maybe a  
18 different way to ask it is: Were you involved in  
19 the decision to adopt the methodology?

20 MR. MAILEY: I was part of the  
21 transmission senior management team, so I was  
22 aware of what was ongoing with it, for sure, yes.

23 MR. TOYNE: For some reason I'd  
24 thought that you were personally involved in that  
25 decision, and I was going to ask you some

1 questions about it; but if you weren't personally  
2 involved, then I don't have any questions for you  
3 about that.

4 MR. MAILEY: I can try my best to  
5 answer to my knowledge how it transpired, and  
6 certainly the team can help correct --

7 MR. TOYNE: You know what, why don't  
8 we try a few, and if it is going poorly for one or  
9 both of us, I will just move on.

10 MR. MAILEY: No, I mean, I can try to  
11 answer the question that you posed.

12 So after the Bipole III CEC hearings,  
13 certainly there was feedback from the Commission  
14 to which we were to seek out a more transparent  
15 and quantitative methodology in our line routing,  
16 to which then Manitoba Hydro took that very  
17 seriously and went out with a request for proposal  
18 to seek different methodologies that would meet  
19 that criteria, to which then our licensing and  
20 environmental staff brought forth something  
21 through to the senior transmission business unit  
22 staff, to which then it was evaluated and piloted  
23 and tried on another transmission line in Southern  
24 Manitoba before the MMTP project.

25 MR. TOYNE: Now, as I understand it

1 from the information that was provided in response  
2 to the IRs, Manitoba Hydro started investigating  
3 alternative routing methodologies as early as  
4 January 2013, and the Bipole III recommendations  
5 come out in June 2013.

6           Assuming that is right, why was  
7 Manitoba Hydro on the hunt for a new methodology  
8 even before the Bipole III report came out?

9           MR. MATTHEWSON: So the investigation  
10 for alternate routing methodologies, or a  
11 different approach, was initiated prior to the  
12 Clean Environment Commission report. I initiated  
13 that investigation and investigated, looking at  
14 different uses of geographic information systems  
15 to augment the routing system as that technique,  
16 which was part of my background, wasn't utilized  
17 as thoroughly as it has the potential for.

18           So that's why I investigated, looking  
19 at different options to utilize geographic  
20 information system and the data that they create  
21 for helping in the transmission line routing  
22 process.

23           MR. TOYNE: Why was it that that  
24 investigation started in January of 2013? Was  
25 there a particular triggering event?

1 MR. MATTHEWSON: Nothing in particular  
2 that I could recall. Perhaps my position within  
3 the department, and the roles and responsibilities  
4 that I was undertaking, may have had a factor in  
5 that.

6 MR. TOYNE: Right. And I understand  
7 that as those efforts to identify a new  
8 methodology were ongoing, that Manitoba Hydro  
9 reached out to nine other entities in the --  
10 either generation or transmission industry. Does  
11 that sound right?

12 MR. MATTHEWSON: Yes, that sounds  
13 correct. Yep.

14 MR. TOYNE: It seems to me there was a  
15 much larger number of entities that Hydro could  
16 have reached out to. Was there a reason why you  
17 just spoke to nine other utilities, as opposed to  
18 some larger number?

19 MR. MATTHEWSON: The utilities that we  
20 reached out to were simply through connections  
21 that Manitoba Hydro had with those utilities,  
22 through personal relationships. So that formed a  
23 good entry point to discuss with those utilities.

24 Also, when -- subsequent, during that  
25 process, we had gone through a request for a

1 proposal, which was a nation-wide request for  
2 routing transmission line proposals. So we had  
3 the breadth of knowledge of a whole variety of  
4 different contractors and consultants in  
5 transmission line routing.

6 MR. TOYNE: And the decision to adopt  
7 this particular methodology, that was made in and  
8 around March 2013?

9 MR. MATTHEWSON: Yes, I believe that's  
10 when the request for approval of routing  
11 consultants, awarding of the routing consultants,  
12 was put forward.

13 MR. TOYNE: Did any of the Canadian  
14 utilities that you reached out to, did any of them  
15 recommend this methodology to you?

16 MR. MATTHEWSON: None of the Canadian  
17 utilities at the time had utilized the EPRI-GTC  
18 methodology, but several U.S. utilities had. And  
19 other utilities that we had talked to were  
20 investigating other -- investigating the EPRI-GTC  
21 methodology and other geospatial routing  
22 technologies at the time.

23 MR. TOYNE: Right. Okay. Just to go  
24 back to a point that Mr. Mailey had made earlier,  
25 this methodology was used on the

1 St. Vital-Letellier line, and then a decision was  
2 made to use it on this particular project. That's  
3 right?

4 MR. MATTHEWSON: Yes.

5 MR. TOYNE: Now I think my questions  
6 will go back to Mr. Mailey at this point.

7 You are familiar with the preference  
8 determination stage of this particular  
9 methodology?

10 MR. MAILEY: Yes.

11 MR. TOYNE: And that's the stage where  
12 Hydro employees assign scores 1, 2, or 3 to a  
13 series of criteria, and then those scores are  
14 weighted in accordance with a formula; that's the  
15 preference determination model?

16 MR. MAILEY: My understanding is it  
17 would be the entire project team would be  
18 partaking in that part of the process in the  
19 methodology.

20 MR. TOYNE: So Hydro employees and  
21 other consulting staff who are part of the project  
22 team are scoring, and those scores are then  
23 weighted; it gets added up, and eventually you've  
24 got a winner. Right?

25 MR. MAILEY: That would be a

1 high-level summary of how the process worked.

2 MR. TOYNE: Yes. For those that have  
3 worked with me before, high level is about as good  
4 as it gets with me most of time.

5 As VP transmission, it was your  
6 responsibility to pick the team that was going to  
7 identify the criteria and set the weights. Is  
8 that accurate?

9 MR. MAILEY: Could you clarify that?  
10 Are you asking with respect to the preference  
11 determination application, those people? Or the  
12 staff to whom would have determined the criteria  
13 and the weightings?

14 MR. TOYNE: The latter.

15 So were you responsible for selecting  
16 the team that set the list of criteria and  
17 assigned weights to those criteria? So not  
18 actually assessing individual routes, but coming  
19 up with the criteria and the weights?

20 MR. MAILEY: Well, how that  
21 transpired, our project team brought forth that  
22 this was obviously something that's required for  
23 the EPRI-GTC model. I and the senior transmission  
24 representatives whom to which are responsible for  
25 operating, designing, planning, and constructing

1 transmission lines in Manitoba, were part of the  
2 senior management team that I chose, yes.

3 MR. TOYNE: Okay. So you are the one  
4 who picked the other three members of the team of  
5 four that set the criteria and then assigned  
6 weights to those criteria?

7 MR. MAILEY: We are the senior  
8 transmission team, and we were the people who did  
9 assign the weights and pick the criteria.

10 MR. TOYNE: Okay. Let's talk about  
11 who those folks are.

12 You have got a civil engineering  
13 background; is that right?

14 MR. MAILEY: Yes.

15 MR. TOYNE: As I understand it, you've  
16 worked at Manitoba Hydro since you graduated from  
17 the Faculty of Engineering?

18 MR. MAILEY: That is correct.

19 MR. TOYNE: And you have had a series  
20 of increasingly more senior roles since you joined  
21 the organization?

22 MR. MAILEY: Yes, in different areas  
23 of transmission.

24 MR. TOYNE: Right. Okay.

25 Now, one of the other individuals who

1 was on this team is Glenn Penner. Correct?

2 MR. MAILEY: That is correct,.

3 MR. TOYNE: And he's -- at least he  
4 was earlier -- sitting over there?

5 MR. MAILEY: He is sitting directly to  
6 my right.

7 MR. TOYNE: I will ask him some  
8 questions when he's up later in the week. But I  
9 understand he also has a civil engineering degree?

10 MR. MAILEY: Yes, he does.

11 MR. TOYNE: And he graduated from the  
12 Faculty of Engineering a year after you did?

13 MR. MAILEY: No, same year I did.

14 MR. TOYNE: Oh, okay. And like you,  
15 he's spent his career at Manitoba Hydro?

16 MR. MAILEY: Correct.

17 MR. TOYNE: Okay. And he is the  
18 division manager of transmission, construction,  
19 and line maintenance?

20 MR. MAILEY: That is correct.

21 MR. TOYNE: That was your job before  
22 you got promoted to VP?

23 MR. MAILEY: Yes, that's correct.

24 MR. TOYNE: And does Glenn report to  
25 you?

1 MR. MAILEY: Yes, he does.

2 MR. TOYNE: The third member of the  
3 team is Gerald Neufeld?

4 MR. MAILEY: Gerald was another member  
5 of the team, yes.

6 MR. TOYNE: Right. I don't mean  
7 anything in who is what number, but he is the  
8 third member of the team that I'm discussing right  
9 now, so -- he is also an engineer?

10 MR. MAILEY: Yes, he is.

11 MR. TOYNE: But unlike you and Glenn,  
12 he is an electrical as opposed to a civil  
13 engineer?

14 MR. MAILEY: That is correct.

15 MR. TOYNE: And he's spent his entire  
16 career at Manitoba Hydro?

17 MR. MAILEY: That is correct.

18 MR. TOYNE: And he is the division  
19 manager, transmission planning and design?

20 MR. MAILEY: Yes.

21 MR. TOYNE: And he reports to you?

22 MR. MAILEY: Yes.

23 MR. TOYNE: The final member of the  
24 team is Anthony Clark?

25 MR. MAILEY: Yes.

1 MR. TOYNE: Like Mr. Neufeld, he is an  
2 electrical engineer?

3 MR. MAILEY: Yes.

4 MR. TOYNE: And he also has spent his  
5 whole career at Hydro?

6 MR. MAILEY: Yes, I do believe so.

7 MR. TOYNE: And he is the division  
8 manager, transmission systems operation?

9 MR. MAILEY: That is correct.

10 MR. TOYNE: And he reports to you?

11 MR. MAILEY: Yes.

12 MR. TOYNE: All right. So the team  
13 that set the criteria and established the weights  
14 consisted of two civil engineers, two electrical  
15 engineers, all of whom who have spent their entire  
16 careers working at Manitoba Hydro?

17 MR. MAILEY: Yes.

18 MR. TOYNE: And I understand that as  
19 you were trying to come up with the criteria and  
20 the weights that could be applied to them, that  
21 you didn't take steps to consult with people  
22 outside of your particular unit of Manitoba Hydro?

23 MR. MAILEY: During the process, we  
24 did get inputs from the project team, to which was  
25 part of our process. But if your question is, did

1 we seek others outside of the transmission  
2 business unit for this specific task, no; that was  
3 bestowed upon us. That's our jobs.

4 MR. TOYNE: All right. But there's  
5 other aspects of your jobs where you will go  
6 outside of your unit to get advice and input from  
7 other departments or units within Manitoba Hydro?

8 MR. MAILEY: It could occur, but with  
9 respect to this specific task, no.

10 MR. TOYNE: All right. And I  
11 understand that you and the other three engineers  
12 came up with a list of five different criteria:  
13 Cost, community, schedule risk, environmental  
14 concerns, and system reliability?

15 MR. MAILEY: That would be six.

16 MR. TOYNE: I've only got five here,  
17 but -- regardless, the largest -- the largest, I  
18 guess, weighting that was assigned was to the cost  
19 criteria?

20 MR. MAILEY: Yes.

21 MR. TOYNE: And that was 40 per cent?

22 MR. MAILEY: Yes.

23 MR. TOYNE: And then there was a risk  
24 to schedule criteria. Now, originally that had a  
25 10 per cent weighting, but it eventually came down

1 to 5?

2 MR. MAILEY: Could you clarify what  
3 change you are referring to specifically?

4 MR. TOYNE: The schedule risks  
5 criteria, when you and the other three engineers  
6 originally assigned a weight to it, you assigned a  
7 weight of 10 per cent; you subsequently changed  
8 that to 5 per cent.

9 MR. MAILEY: Are you referring to when  
10 we piloted with the St. Vital-Letellier project  
11 and assigned that criteria?

12 MR. TOYNE: Sure. If that's what I'm  
13 referring to, then yes.

14 MR. MAILEY: Do you have a specific  
15 table you are referring to that I can reference,  
16 so I could clearly answer your question?

17 MR. TOYNE: Sure. It's page 5A-28 of  
18 the EIS. It is a brief summary of the work that  
19 you and the three other engineers did.

20 MR. MAILEY: To answer your question,  
21 yes. With respect to Section 5A.5, the preference  
22 determination model, on the page you referenced,  
23 that does reference the criteria and weightings  
24 that were used for the St. Vital-Letellier. And  
25 subsequently, specifically for the MMTP project.

1 We did re-evaluate for the MMTP, and which is why  
2 when I said "six," you said "five," that's the  
3 clarification, I believe.

4 MR. TOYNE: Okay. So in other words,  
5 on literally the same page, the cost, the schedule  
6 risks, and the system reliability criteria,  
7 whether for the St. Vital-Letellier or for MMTP,  
8 those three criteria add up to 55 per cent?

9 I think my math is right on this one.

10 MR. MAILEY: With respect to the table  
11 you are referring, yes.

12 MR. TOYNE: All right. And I will see  
13 if you'll agree with me on this one.

14 You'll agree with me that those would  
15 be the types of concerns that you would expect a  
16 team of engineers to come up with, if they were  
17 the ones who are establishing criteria and  
18 assigning weights?

19 MR. MAILEY: I would say that these  
20 are important criteria when, certainly, developing  
21 a transmission line. And the team that came up  
22 with these were the senior management team that's  
23 responsible for all the operations that we  
24 discussed earlier, and the ongoing management and  
25 operations. So it is not strictly an engineering

1 perspective.

2 MR. TOYNE: You would agree with me  
3 that there is a variation of the -- there is a  
4 range of variations of these different weightings  
5 that would still result in a reasonable route  
6 being selected?

7 For example, if "cost" and "community"  
8 were switched, that would still be a reasonable  
9 set of weights to go forward with this particular  
10 model? Would you agree with that?

11 MR. MAILEY: We based our decision on  
12 the specific MMTP project and the importance  
13 thereof, and certainly cost was identified as the  
14 highest.

15 MR. TOYNE: Right. I took that point.  
16 What I'm wondering if you will agree with or  
17 not -- and I get the sense you won't -- is that if  
18 the weights were different, that a reasonable  
19 route could still be generated by this model. Do  
20 you agree or disagree?

21 MR. MAILEY: I would suggest different  
22 routes could be determined from this model.  
23 Whether it is reasonable or not with respect to  
24 the criteria we were applying, I couldn't answer.

25 MR. TOYNE: Okay. But you would agree

1 with me that the criteria that you and the other  
2 three engineers set, and the weights that you and  
3 the other three engineers assigned to those  
4 criteria, they played a very significant role in  
5 selecting the final preferred route?

6 MR. MAILEY: It certainly was a part  
7 of the process that the management team of  
8 transmission took seriously, and it was definitely  
9 part of how the EPRI-GTC model works, yes.

10 MR. TOYNE: If you will bear with me  
11 for just 15 seconds, I have been going for about  
12 an hour, and I just want to make sure that I'm  
13 done.

14 All right. Thank you very much.

15 MR. MAILEY: Thank you, sir.

16 THE CHAIRMAN: Thank you, Mr. Toyne.

17 All right, the second participant to  
18 undertake questioning will be the Southern Chiefs'  
19 Organization.

20 MR. BEDDOME: Good afternoon. James  
21 Beddome, for the Southern Chief's Organization.  
22 Just for the record, B-E-D-D-O-M-E.

23 I will just say good afternoon to all  
24 of the panelists. I'm going to be a little bit  
25 shorter than my learned friend before me, so that

1 might make you very happy, although he did have  
2 some good questions for you.

3           Similar to Mr. Toyne, whomever wishes  
4 to respond can respond, but I'm going to direct at  
5 least my first couple of questions to yourself,  
6 Ms. Mayor, because you are the one that presented  
7 those slides.

8           MS. S. JOHNSON: My name is  
9 Ms. Johnson.

10           MR. BEDDOME: Ms. Johnson; I'm sorry.  
11 I'm sorry. I'm confusing Ms. Shannon; I  
12 apologize.

13           MS. S. JOHNSON: But if Ms. Mayor  
14 would like to take the questions, I'm fine with  
15 that.

16           MR. BEDDOME: I guess I'm even with  
17 our chairman there from our second pre-hearing  
18 conference. Okay.

19           THE CHAIRMAN: You are right; I did  
20 make the same or a similar mistake.

21           MR. BEDDOME: Similar names. I  
22 apologize.

23           The first question I just have is, it  
24 would be fair to say that the planning for the MMT  
25 project began in 2007. Correct?

1 MS. S. JOHNSON: I believe we actually  
2 have an IR on that, where we do indicate that the  
3 planning commenced in 2007.

4 If you give me just a minute, I'm just  
5 going to pull that up.

6 MR. BEDDOME: I can reference it for  
7 you.

8 MS. S. JOHNSON: Yes. Okay.

9 MR. BEDDOME: It is SCO IR 4, at pages  
10 67 to 105 of IR package 6 from the first round.

11 MS. S. JOHNSON: Yes, I've got it.

12 MR. BEDDOME: So you would agree it  
13 started in 2007?

14 MS. S. JOHNSON: Yes, I would agree  
15 with that.

16 MR. BEDDOME: Okay. And now I notice  
17 in your outline of your presentation, though, you  
18 begin with the "needs for and alternatives to"  
19 process in 2013.

20 MS. S. JOHNSON: I think there is  
21 different processes, from a planning standpoint,  
22 and where the project becomes a vision or a  
23 thought. And certainly, from a Manitoba Hydro  
24 standpoint, there is environmental assessment;  
25 there is the NFAT process; but there is also the

1 process that happens in the system reliability  
2 area and in the system planning area. And these  
3 are all different processes that will take place  
4 at different times.

5 MR. BEDDOME: Perhaps you can start me  
6 back at 2007 and go over some of these processes  
7 that might have occurred between 2007 and 2013.

8 MS. S. JOHNSON: I think there was a  
9 follow-up question that SCO provided, and I think  
10 in our response to SCO IR 31, we gave a bit more  
11 detail in regards to what began in 2007, and it  
12 was -- the request for transmission service  
13 between Manitoba and the U.S. was submitted  
14 between May 27 and April 2008, and engineering  
15 planning studies began in the fall of 2008 to  
16 define potential transmission options that could  
17 fulfill these requirements.

18 MR. BEDDOME: But there were no public  
19 engagement sessions between 2007 and 2013, then;  
20 would that be correct?

21 MS. S. JOHNSON: No. There would not  
22 have been any at that point in time.

23 MR. BEDDOME: Why did Manitoba Hydro  
24 wait roughly six years before initiating any  
25 public engagement?

1 MS. S. JOHNSON: One of the things  
2 when -- we found in -- in working on other  
3 projects, is in order to engage feedback from  
4 communities, whether it be through the First  
5 Nation and Metis engagement processes or the  
6 public process, having a idea of where the line  
7 might be and where a route might be tends to  
8 elicit more feedback and provides, I guess, a  
9 better venue for conversation with people that are  
10 interested in the project.

11 Going out with just a general idea, or  
12 a concept, without any idea as to where the line  
13 might be, is sometimes difficult, and you may not  
14 really garner participation or attendance at open  
15 houses.

16 MR. BEDDOME: So is it fair to say you  
17 don't think that the public has an interest in  
18 putting their input in where a route would run, if  
19 -- notwithstanding, I know it is at an earlier  
20 point of the vision, but wouldn't there be some  
21 public interest, don't you think, in where that  
22 line would run?

23 MR. SWATEK: I do want to go back to  
24 the 2007/2008. That would have been when we --  
25 when transmission had received a request to

1 provide transmission service.

2 Now, at that point, this is -- we are  
3 really examining a concept of -- how could  
4 Manitoba Hydro provide service for a particular  
5 transaction? And at this point these transactions  
6 aren't even nailed down.

7 So I think where Ms. Johnson was going  
8 there is there really wasn't a project to take to  
9 the public at that point. It is all concepts for  
10 discussion.

11 MR. BEDDOME: But at that point you  
12 would have been aware of the concept of connecting  
13 a transmission line to what is now known as the  
14 Great Northern Transmission Line in Minnesota;  
15 that would have been what you would have been  
16 planning. Correct?

17 MR. SWATEK: No, there were various  
18 interests competing for that line. It could have  
19 gone -- it could have gone down through North  
20 Dakota. We may not have transacted with Minnesota  
21 Power.

22 MR. BEDDOME: Were you looking at  
23 other potential power utility companies to do an  
24 agreement with on that?

25 MR. SWATEK: There was no point of

1 termination, and it was not clear exactly which  
2 utility it would even be terminating with. It  
3 didn't become a solid concept until 2013.

4 MR. BEDDOME: Okay. Thank you.

5 So I just want to quickly address -- I  
6 think this should be a pretty easy yes or no --  
7 that Section 2(2)(1) of the scoping document,  
8 there is a reference that all relevant legislation  
9 and policies will be reviewed as part of the EIS.

10 Would anyone on the panel be able to  
11 confirm that that's accurate? I can find the  
12 specific reference, if that makes it easier for  
13 you.

14 MS. S. JOHNSON: If you can tell me  
15 what page it is on, I have the scoping document  
16 right here.

17 MR. BEDDOME: Sure.

18 So I have page 10 of 39, although  
19 that's a digital PDF, so let me just double-check  
20 to make sure that matches the pagination.

21 2.2 is at the bottom of the page, and  
22 it goes up, but there is a line at the bottom of  
23 2.1: "Other relevant Provincial legislation will  
24 be reviewed as part of the project EIS."

25 And if you go up above, in reference

1 to Federal legislation, there is a similar line.

2 MS. S. JOHNSON: Yes.

3 MR. BEDDOME: And then if you kind of  
4 reference back to the EIS, it is in  
5 Section 2(3)(2)(2), pages 2-3 to 2-7 for  
6 Provincial legislation and 2-7 to 2-13 for Federal  
7 legislation. You may wish to just turn yourself  
8 to there.

9 It is just a long table of relevant  
10 legislation. I think the table keeps going on for  
11 quite a few pages.

12 MS. S. JOHNSON: If you could repeat  
13 it to me again, I think I have got it here.

14 MR. BEDDOME: Yeah. Sure. Starting  
15 at 2-3, all the way to 2-13, is several  
16 concordance tables, I guess you would say; one of  
17 Provincial legislation, one of Federal  
18 legislation.

19 MS. S. JOHNSON: Okay, I've got them.

20 MR. BEDDOME: Thank you.

21 And I want to thank Mr. Bedford in his  
22 opening remarks for referencing the need for  
23 reconciliation and the TRC, as well as Mr. Madden,  
24 for recognizing the Path to Reconciliation Act,  
25 and I think Manitoba Wildlands also acknowledged

1 it, so ...

2 Mine is just a quick question. I  
3 recognize that that Act wasn't passed until 2016,  
4 which would have been after the EIS was drafted.  
5 But is it fair to say that the Path to  
6 Reconciliation Act should be listed in those other  
7 statutes, as having relevant guidance?

8 MS. S. JOHNSON: I guess the answer in  
9 this would be if the Act is included under the  
10 regulatory framework, obviously it is something  
11 that we would adhere to. I think Manitoba Hydro  
12 is committed, as Mr. Bedford made comment in the  
13 opening statement, to working towards that, and I  
14 believe, as evidenced in the EIS, certainly  
15 Manitoba Hydro has made strides and continues to  
16 do so.

17 MR. BEDDOME: Yeah. I guess, just to  
18 give you a little bit further clarification, your  
19 tables seem to talk about Acts where a permit is  
20 required, and then guidance only; and it would  
21 just seem to me that the Path to Reconciliation  
22 Act would fit well in the "guidance only"  
23 legislation. Would you agree or disagree with  
24 that statement? If you were to draft the EIS  
25 today, let's say?

1 MS. MAYOR: I believe my learned  
2 friend is asking for a legal conclusion as to  
3 whether this Act is applicable and should have  
4 been included in the EIS. I'm not sure that  
5 that's an appropriate question to be put to the  
6 panel, and perhaps that's something that we can  
7 take under advisement and advise later on, and  
8 we'll take a look and consider it.

9 MR. BEDDOME: As the manager that  
10 prepared the EIS, I'm just simply asking whether,  
11 if they were to redo it today, that Act would have  
12 been included in their "guidance only" references.

13 That's really the reason I'm asking.  
14 If the answer is they are not sure, that's fine;  
15 but that's the reason for the question.

16 MS. MAYOR: And I think we are saying  
17 we would have to review it and advise.

18 THE CHAIRMAN: Could you give us just  
19 a minute on this question? Thanks.

20 So our understanding is that the Hydro  
21 response is that you are going to have to consider  
22 that question; is that right?

23 Okay. Is that satisfactory to you?

24 MR. BEDDOME: Would I be able to get  
25 an undertaking to get a response on that?

1 MS. MAYOR: Yes, that's fine.

2 THE CHAIRMAN: Okay, good. Then from  
3 our perspective, that's the way to go too, so  
4 thank you.

5 (UNDERTAKING # MH-1: If Hydro were to redo EIS  
6 today, would Path to Reconciliation Act have been  
7 included in their "guidance only" references)

8 MR. BEDDOME: And I don't know if they  
9 have the same thing, but I also notice, in looking  
10 at those tables, the Natural Resources Transfer  
11 Act is not listed, and I'm wondering if you would  
12 be able to provide an answer as to why.

13 MS. S. JOHNSON: I think we will have  
14 to take that as an undertaking. That would be  
15 outside of our ability.

16 MR. BEDDOME: I will accept that as an  
17 undertaking, if legal counsel can confirm.

18 MS. MAYOR: Yes, that's fine.

19 MR. BEDDOME: Thank you very much,  
20 Ms. Mayor, and thank you, Ms. Johnson.

21 (UNDERTAKING # MH-2: Advise why Natural Resources  
22 Transfer Act is not listed)

23 MR. BEDDOME: Just bear with me as I  
24 look over my notes really quickly.

25 If I could draw your attention to

1 Slide 16 in the presentation. And that lists the  
2 existing transmission inter-connections, both with  
3 the U.S. and with Ontario and Saskatchewan.

4 You may or may not need it up, but I  
5 just -- so you know what I'm referencing.

6 Really easy question there: I note  
7 that there is no import from Ontario and  
8 Saskatchewan, but my question is whether Manitoba  
9 Hydro has done any feasibility studies of, in the  
10 event of a catastrophic failure of one form or  
11 another -- I'm not going to say whether it be, you  
12 know, Bipoles I and II or Bipoles I and III --  
13 what would be our ability, if any, to import power  
14 from either Saskatchewan and/or Ontario for  
15 reliability purposes?

16 MR. SWATEK: When we considered this  
17 for Bipole III, we were in the same boat then.  
18 The firm import capability was only 700 megawatts,  
19 but we like -- but to be a little more optimistic,  
20 we included an extra 200 megawatts for what we  
21 considered a likely emergency import of 900. And  
22 subject to -- now, I would have to refer back to  
23 the inter-connection team to determine if they  
24 believed that was coming up from the U.S. or from  
25 Ontario, but certainly not from Saskatchewan.

1 MR. BEDDOME: So there is no capacity  
2 to get any from Saskatchewan, is your sense of it?

3 MR. SWATEK: We have no firm import  
4 capability, no.

5 MR. BEDDOME: Oh, really? So the  
6 lines to Saskatchewan only go one way? Am I  
7 understanding that correctly?

8 MR. SWATEK: It is that the systems  
9 can only support power flow in one direction.  
10 Power flow is not symmetrical; it depends on the  
11 strength of the system on either side. And  
12 Saskatchewan is not able to supply firm power to  
13 Manitoba.

14 MR. BEDDOME: Thank you very much,  
15 Doctor. It is appreciated, for a lay person like  
16 myself.

17 But Ontario, there is capacity for  
18 firm imports?

19 MR. SWATEK: No, we have no capacity  
20 for firm import from Ontario. From -- it now --  
21 now, under certain system conditions, there may be  
22 possible to get some non-firm. This is typically  
23 non-firm from the U.S.

24 If you are asking about Ontario, this  
25 is something that I would have to check on. We

1 certainly have no firm -- no firm import from  
2 Ontario.

3 MR. BEDDOME: Thank you. I really  
4 appreciate that.

5 I will quickly ask this, but I think  
6 my learned friend asked it before. It is  
7 difficult -- you were talking about how some of  
8 the lines that were less than 10 kilometres were  
9 easily accessible; you figured they could be  
10 repaired quickly. But it's next to impossible, I  
11 guess, too much variability, too many factors for  
12 you to give rough ballpark estimates of how fast  
13 you think that crews would be able to respond to  
14 something like that.

15 MR. SWATEK: No, it would really  
16 depend on the -- on the circumstances.

17 MR. BEDDOME: Fair enough.

18 This may be a question better asked  
19 for the routing panel, and if it is, I apologize.  
20 But it was I think Mr. -- Mr. Matthewson, I think,  
21 briefly mentioned this.

22 When we were going over the video, you  
23 pointed out the corner angles that would be  
24 subject to blasting. That's correct; right?

25 MR. MATTHEWSON: Sorry, can you repeat

1 the question? Was it subject to blasting?

2 MR. BEDDOME: It was a brief comment  
3 as you went through the video, and you noted --  
4 you said -- "Here is one example of one of the  
5 corner guys where blasting would be required."  
6 Right?

7 MR. MATTHEWSON: No, just --

8 MR. BEDDOME: Angle towers, I think --

9 MR. MATTHEWSON: They are angle  
10 towers, and they are wider and have a larger  
11 footprint. I don't think I referred to any type  
12 of blasting, but if I did, I would like to correct  
13 that, is that they are subject to stronger loads  
14 because of the change of direction. So you have  
15 the conductors, and the weight of the conductors  
16 pulling at two different angles, whenever you have  
17 an angle structure. So they have to be stronger,  
18 more robust. There is no connection to blasting  
19 activities particularly for an angle structure,  
20 any more than any other structure.

21 MR. BEDDOME: Okay. It must be my  
22 mistake, but I just would refer you to Southern  
23 Chiefs' Organization information request  
24 number 34, which is a follow-up from information  
25 request number 5. And we had asked questions

1 about the implosions there. And it indicated that  
2 angle towers on major crossing locations are  
3 identified on the construction and environmental  
4 protection plan, and that's one of the places  
5 where implosions would occur. I just wanted to  
6 confirm that that was accurate

7 MR. MATTHEWSON: The IR that you are  
8 referring to, it is implosions for splicing of  
9 conductor cables will occur intermittently between  
10 angle towers and crossing features.

11 So it is where the end of a cable  
12 reel, which is approximately three miles long,  
13 it's when they are spliced together.

14 MR. BEDDOME: Perfect. Thank you.  
15 Sorry; I misunderstood. I thought there was going  
16 to be blasting at the angle towers to get  
17 foundations in. And I was aware of the splicing,  
18 which was my follow-up question.

19 I noticed you had a video from the  
20 Tyndall transmission of Manitoba Hydro, but you  
21 will have to forget -- dumb lawyers like me are  
22 curious about trying to understand the splicing  
23 process; how much noise it might take, whether  
24 there is any risk of debris, et cetera.

25 MR. MATTHEWSON: Sorry, can you repeat

1 the question?

2 MR. BEDDOME: I'm just wondering -- it  
3 is fairly open-ended, but just -- the splicing  
4 process is interesting to me. I did go on your  
5 website and find you guys have a video for Tyndall  
6 transmission. Whether you can just help -- as I  
7 said, dumb lawyers aren't electrical engineers,  
8 don't know all of this.

9 There is a couple of subsequent  
10 questions. Maybe give a quick description; I  
11 think it might benefit.

12 MR. MATTHEWSON: I think I will pass  
13 it to Mr. Mailey, our civil engineer. He has a  
14 lot of experience in construction, to explain it.

15 MR. MAILEY: To skip some background,  
16 as stated, it's a splicing technology to which --  
17 either at the angle tower or a dead-end tower,  
18 where the conductor terminates, or where we are  
19 joining a conductor, it is a sleeve, and there is  
20 actually an implosive charge in it that melts the  
21 conductor together.

22 Traditionally, or still to this day,  
23 you can also use a compression methodology. This  
24 technology is an advancement; provides a better  
25 solution, and it's more cost effective.

1                   So there is no debris that comes from  
2 this; it is completely contained. That being  
3 said, it is an implosion, so there is quite a  
4 force on a blast, and it is loud, so there is a  
5 safe distance to which the workers have to stay  
6 when it actually is enacted.

7                   MR. BEDDOME: How far away would --  
8 like, the audibility, I suppose, would depend  
9 somewhat on wind conditions; but how far away  
10 would these implosions be heard, roughly? Give or  
11 take.

12                  MR. MAILEY: As you stated, it could  
13 vary, depending on wind and atmospheric  
14 conditions.

15                  The other factor I would share is  
16 sometimes there is multiple splices that are done  
17 at the same time. I can give you a lay answer:  
18 It is loud, and it could certainly traverse some  
19 distance.

20                  But I would have to check what that  
21 variation could extend to. I don't know that  
22 exact distance.

23                  MR. BEDDOME: Well, I very much thank  
24 the panel for your time. You will be happy to  
25 know, I think that's all of the questions I have

1 at this time.

2 MR. MAILEY: I was just going to add,  
3 we do notify the public in advance of those  
4 audible noises, and then we also sound a bell  
5 alarm or a horn system in a local area. So in  
6 populous areas, we certainly give advance notice,  
7 so people aren't frightened or scared. We also  
8 notify authorities; we do a public communication  
9 on that to try and get the word out what this loud  
10 noise is.

11 MR. BEDDOME: Thank you.

12 MR. SWATEK: Before you wrap up, I do  
13 want to clarify that that extra 200 megawatts of  
14 non-firm, non-firm import, that was from the U.S.,  
15 not from Ontario. So we don't have anything from  
16 them.

17 MR. BEDDOME: Thank you for asking  
18 that question, because I just had one last  
19 follow-up for you, Doctor --

20 MR. SWATEK: Oh, good. Oh, you want  
21 the -- okay. Fair enough.

22 MR. BEDDOME: Just a quick question.

23 You were looking at the tornado map  
24 with Mr. Toyne there, and looking at the  
25 likelihood of it. Would it be fair to say, with

1 climate change, the risk of tornadoes in Manitoba  
2 are going to increase?

3 MR. SWATEK: With climate change, I'm  
4 not an expert. But if the risk of tornadoes were  
5 to increase, we would certainly want a  
6 greater-than-10-kilometre buffer, yes. Thanks.

7 MR. BEDDOME: Thank you.

8 THE CHAIRMAN: Thank you, Mr. Beddome.

9 We will take a ten-minute stretch.  
10 Normally it is 15, but we are slightly behind, not  
11 much, so let's make it ten minutes, and we will  
12 come back. Thanks.

13 (Recessed at 3:10 p.m.)

14 THE CHAIRMAN: Okay. We will start in  
15 a minute here. Thanks.

16 Okay. Welcome back, everyone, and we  
17 will resume our questioning with Peguis First  
18 Nation. Thank you.

19 MR. VALDRON: Thank you.

20 For the record, once again, my name is  
21 Den Valdron, representing Peguis. And you will be  
22 pleased to hear I have got only a very few  
23 questions, starting out, so I suspect this will be  
24 brief and quite painless for everyone.

25 First off, let me say that I really

1 admired that video presentation. I thought it was  
2 just spiffy, which is not a legal term. But no,  
3 it was quite good, and quite delightful, and very  
4 informative.

5 I guess the first question is going to  
6 be a softball to the group there: Is this video  
7 available on your website?

8 MR. MATTHEWSON: It will -- we have to  
9 work out some technical issues to get it on our  
10 website, but we will be filing the video as part  
11 of the CEC Commission hearings.

12 MR. VALDRON: Excellent. Do you have  
13 any idea when it'll be up on your website?

14 MR. MATTHEWSON: It -- no, I don't  
15 have any idea how long it could take. Like I  
16 said, the video itself is 2 gigabytes in size; it  
17 is going to take some figuring to get it available  
18 to the mass public for viewing.

19 MR. VALDRON: Okay. Would it be  
20 possible to make arrangements to have this video  
21 shown to communities like Peguis?

22 MR. MATTHEWSON: Absolutely.

23 MR. VALDRON: And you would be the  
24 person we would contact to try and make those  
25 arrangements?

1 MR. MATTHEWSON: Yes I can, or Ms. --

2 MR. VALDRON: Who would you recommend?

3 THE WITNESS: Ms. Sarah Coughlin, who  
4 is leading our First Nations MMT engagement  
5 process, has ongoing connections, discussions with  
6 the community, so she would probably be the best  
7 point of contact.

8 MR. VALDRON: Excellent.

9 Now, with respect to that video, I  
10 just have a couple of questions. Like -- as I was  
11 watching it, for instance, I noted that -- you  
12 know, as the yellow line moved through, it would  
13 be passing through areas of furrows, and I take it  
14 these would be agricultural lands. Correct?

15 MR. MATTHEWSON: Correct.

16 MR. VALDRON: Okay, good. Sometimes  
17 the furrows seemed different. Did that represent  
18 different crops in those areas, or different uses  
19 of agricultural land, or ... ?

20 MR. MATTHEWSON: Yes, likely. There  
21 was different crops, different stages of crop  
22 growth.

23 MR. VALDRON: Okay. And I saw trees  
24 there. Those weren't actual trees being  
25 represented, were they? It was just kind of

1 groups of trees, just to say, in this area right  
2 here, if you have got a tree, there is some trees  
3 there. Right?

4 MR. MATTHEWSON: Yes. As I mentioned  
5 at the start, it was just a simulation; it was not  
6 intended to be a realistic, exact example of the  
7 existing environment.

8 MR. VALDRON: Right. Not intended to  
9 be detailed or literal.

10 But I noticed that with respect -- at  
11 least passing through one area, it was referred to  
12 as a pine swamp; do you remember that reference?

13 THE WITNESS: I believe there was a  
14 reference to "piney bog."

15 MR. VALDRON: Pine bog; yes. You are  
16 correct. I guess that's a marshy environment,  
17 correct?

18 MR. MATTHEWSON: Sorry, can you repeat  
19 the question?

20 MR. VALDRON: Pine bog, that's -- if  
21 it is a bog, it's marshy, or wetland?

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

23 MR. VALDRON: As I was watching this,  
24 the non-agricultural land didn't seem to be really  
25 specified as anything else. If there weren't

1 trees, it was hard to determine what that land  
2 was.

3 MR. MATTHEWSON: It would have been a  
4 mixture of grasslands and shrublands.

5 MR. VALDRON: Grasslands, shrublands,  
6 possibly marsh swamp, et cetera?

7 MR. MATTHEWSON: Yes.

8 MR. VALDRON: Your video couldn't  
9 distinguish between those different sorts of wild  
10 lands?

11 MR. MATTHEWSON: The underlying  
12 imagery, under the video, it would have been  
13 discernible; but we didn't model the exact shrubs  
14 showing there. But the imagery that was on the --  
15 that everything was placed on top of was the  
16 latest available aerial imagery that all this was  
17 done on top of.

18 MR. VALDRON: Um-hum.

19 MR. MATTHEWSON: And it was perhaps  
20 not as discernible because of the resolution of --  
21 when developing a very large video like this, we  
22 had to scale the resolution of the imagery down,  
23 which causes it to be a little more grainy and not  
24 as clear. But in the agricultural area, due to  
25 the large expanses of different terrain, it is

1 easy to discern the imagery; but when you got into  
2 the shrubs and the grasses and the wetlands, it  
3 was difficult; correct

4 MR. VALDRON: So it was just difficult  
5 to discern, in terms of the Crown land, what that  
6 Crown land was and how meaningful that Crown land  
7 was in terms of different categories?

8 MR. MATTHEWSON: It was difficult to  
9 visualize the exact land cover that was on that  
10 landscape, not its land use.

11 MR. VALDRON: Okay. Now, on that  
12 point, I guess, one thing that I was watching, and  
13 that might have been really interesting for me,  
14 was if there had been some way to distinguish  
15 between Crown lands, per se, and other forms of  
16 land, like private land. Was there any thought  
17 given to that?

18 MR. MATTHEWSON: There wasn't any  
19 thought given to that in this presentation. We do  
20 have quite a few different maps coming up in  
21 future presentations that illustrate just that.

22 MR. VALDRON: Okay. Could you do it  
23 within the context of this video?

24 MR. MATTHEWSON: Could I have  
25 illustrated Crown land versus private land?

1 MR. VALDRON: Could it have been done?

2 MR. MATTHEWSON: Yes. Yes, it could  
3 have been done. Correct.

4 MR. VALDRON: Would it be possible to  
5 do that in the future? Or is this video basically  
6 cast in stone at this point?

7 MR. MATTHEWSON: It is technically  
8 possible to do. I'm not sure by which timelines  
9 we can have that done, whether it would be able to  
10 be incorporated during the length of this hearing.  
11 That video took over two months to produce.

12 MR. VALDRON: Wow. Okay.  
13 So when was that video completed?

14 MR. MATTHEWSON: That video was  
15 completed at 6:30 on Sunday. Literally. That's  
16 when I received it in my inbox. There was many,  
17 many, many drafts and corrections and adjustments.

18 MR. VALDRON: Just coming right down  
19 to the wire; well, I admire that. All right.

20 One thing I wondered about was whether  
21 you could have done this video, say, on Google  
22 Earth, or with real-time photography, or satellite  
23 mapping, something like that, rather than a CGI  
24 overlay. Would that have been possible?

25 MR. MATTHEWSON: Yes, that would have

1    been possible.  We have done that on other  
2    transmission projects.

3                   MR. VALDRON:  Why not on this one  
4    then?

5                   MR. MATTHEWSON:  We felt that adding  
6    the third dimension to the project would help  
7    visualize the right-of-way width and clearing that  
8    isn't illustrated.  When you just lay the towers  
9    on top of a Google Earth image you don't get an  
10   understanding of the width and location of the  
11   right-of-way --

12                   MR. VALDRON:  Okay.

13                   MR. MATTHEWSON:  -- to the same  
14   degree.

15                   MR. VALDRON:  All right.  So you were  
16   sacrificing some level of detail in some area to  
17   try and get a better concept in terms of the  
18   three-dimensional aspect?

19                   MR. MATTHEWSON:  Yes, correct.

20                   MR. VALDRON:  Okay, all right.

21                   Now, with respect to Slide 8 of your  
22   Hydro presentation, this document here.

23                   MR. MATTHEWSON:  I would like to add  
24   to that information on Crown.

25                   So Manitoba Hydro, on its public

1 website, right now which you may not be aware of,  
2 is there is a map viewer on the website with the  
3 project aligned on it, on a Google Earth-type  
4 environment, with imagery, and it does have the  
5 Crown layer available to be turned on and  
6 visualized at that time too.

7 MR. VALDRON: Thank you. That's good  
8 to know. I will definitely take a look at that.

9 All right. As you can see, what I'm  
10 interested in is, of course, representing Peguis,  
11 the whole issue of Aboriginal engagement and  
12 Aboriginal participation. So we have a special  
13 interest with respect to, say, Crown lands, and in  
14 terms of Aboriginal use, what kind of land you are  
15 looking at. Whether it is grassland or scrub  
16 brush or forest is obviously very important to us.

17 Now, turning to Slide Number 8 of the  
18 overview presentations, I believe it is titled  
19 "Overview of Presentations." What I was curious  
20 about is you've listed a number -- and I'm not  
21 saying you, specifically; I'm just addressing it  
22 to the group of you -- introduction, project  
23 description, engagement routing, construction,  
24 methodology approach, socio-economic, biophysical  
25 and environmental protection.

1                   Can you identify for me more  
2 specifically which of those presentations deal  
3 with First Nations content particularly?

4                   MS. S. JOHNSON: It is actually in  
5 several of the presentations that you will see.  
6 Obviously it is in the engagement presentation.  
7 It will be in the routing presentation. It will  
8 be -- there will be a flavour of it in the  
9 socio-economic, and I believe the biophysical,  
10 subject to check; just give me a second.

11                   And it is in construction as well.

12                   MR. VALDRON: Okay. And can you tell  
13 me if any of these five items provides -- has more  
14 to do with First Nations content? Or is it just  
15 spread evenly through? Where is the First Nations  
16 content focusing within these five?

17                   MS. S. JOHNSON: I guess First Nations  
18 content, you are going to have to be a little more  
19 specific.

20                   MR. VALDRON: Relating to  
21 consultation, relating to involvement with  
22 Aboriginal traditional knowledge, relating to land  
23 use.

24                   MS. S. JOHNSON: I think, again, it  
25 will be peppered through; but the engagement

1 presentation is where we will summarize the  
2 process and the information that we heard. I  
3 think you will also see in routing where some of  
4 that information has been incorporated into  
5 routing. And traditional land use will be part of  
6 the biophysical panel.

7 So it really is peppered throughout  
8 many of the preparations we have. But specific to  
9 engagement with the First Nation and Metis through  
10 that process, it will be in the upcoming  
11 presentation.

12 MR. VALDRON: Okay. Thank you.

13 Now, with respect to Aboriginal  
14 engagement, I note that there was new terms of  
15 reference the EIS issued -- or for the CEC  
16 hearings issued in February of 2017, and those new  
17 terms of reference basically seem to add simply a  
18 paragraph that some issues were going to be  
19 addressed: Health and socio-economic conditions,  
20 physical and cultural heritage, the current use of  
21 lands and resources for traditional purposes.

22 And I note that these updated terms of  
23 reference came out in February of 2017. The prior  
24 terms of references, which didn't mention that,  
25 were in 2015.

1                   Has this new -- have these new terms  
2 of references changed your perspective, or imposed  
3 a perspective? Or does this simply cover all  
4 the -- or do these new terms of references for you  
5 simply cover all the things you were doing or  
6 committing to in 2015?

7                   MS. S. JOHNSON: The terms of  
8 reference didn't change the EIS.

9                   MR. VALDRON: Okay. All right.

10                  And I guess one last question, and  
11 this is just kind of a little clarification. You  
12 mentioned the -- somebody mentioned the  
13 Riel/Vivian IPL. Can you tell me when that was  
14 licensed? I'm just trying to make sure all of my  
15 Ts are crossed here.

16                  MR. SWATEK: Yes, we have that here.  
17 The existing IPL in the Riel/Vivian corridor,  
18 that -- it was originally constructed as  
19 Line D602F, and it was licensed in -- sorry, it  
20 was -- excuse me; it was built in 1980. The line  
21 was redesignated as M602F when it was  
22 re-terminated at the Riel station in 2014.

23                  MR. VALDRON: Okay. Precisely when in  
24 2014?

25                  MR. SWATEK: I believe it was October

1 of 2014. The exact date in October, I don't  
2 recall offhand.

3 MR. VALDRON: So it would have been  
4 licensed in 2014?

5 MR. SWATEK: The Riel sectionalization  
6 was a change to a existing IPL. Exactly when it  
7 got its licence, we would have to check that.

8 MR. VALDRON: Okay. Could I get an  
9 undertaking on that, then?

10 MR. SWATEK: Yes, we'll --

11 MS. MAYOR: I can do better than that.  
12 I'm advised that it was licensed by the National  
13 Energy Board in 1977.

14 MR. VALDRON: All right. Do you  
15 recall -- I guess you can't recall, but do you  
16 know specifically when in 1977?

17 MS. MAYOR: September 6.

18 MR. VALDRON: September 6. Sorry to  
19 be so pedantic.

20 I want to thank you all, and I  
21 appreciate you taking the time out and being so  
22 patient with me as a new person to this process.  
23 And my thanks to the Commission.

24 MR. SWATEK: And thank you very much  
25 for your questions.

1 MR. MADDEN: Jason Madden for the  
2 Manitoba Metis Federation. I just have two short  
3 questions.

4 I want to go back to the period from  
5 2007 to 2013. And you talked a bit about the  
6 Minnesota Transmission Line being -- examining a  
7 concept at that time, and not necessarily  
8 undertaking consultation or engagement on it. At  
9 that point in time, did you have the general  
10 understanding, though, that the line, from a  
11 concept perspective, would still be in  
12 southeastern Manitoba?

13 MR. SWATEK: No, that would not have  
14 been known at the start.

15 MR. MADDEN: Can you explain to me --  
16 so it is the idea of -- that there is no -- there  
17 is no idea that it would actually be from Winnipeg  
18 to Southern Manitoba, or ... ?

19 MR. SWATEK: It would have gone from  
20 Winnipeg to a terminating station in the U.S., but  
21 at that point the ultimate termination for that  
22 line had not been determined. Right.

23 MR. MADDEN: So from a concept, is  
24 that analogous to at a strategic -- you are at a  
25 strategic planning level at that point in time?

1 MR. SWATEK: We were examining  
2 multiple transmission service requests, meaning  
3 there were multiple requests for Manitoba Hydro's  
4 power. A line would need to get built, but  
5 exactly to where had not been determined. We were  
6 engaged in some joint studies with MISO at that  
7 point, the Midcontinent Independent System  
8 Operator. So at the onset, it was not clear where  
9 that line would have terminated.

10 MR. MADDEN: Although the  
11 understanding would be it would be in the United  
12 States?

13 MR. SWATEK: It would be in the U.S.,  
14 yes.

15 MR. MADDEN: So that would naturally  
16 mean it would be going through Southern Manitoba,  
17 not Northern Manitoba?

18 MR. SWATEK: Correct, yes.

19 MR. MADDEN: At that time, were there  
20 any discussions with the government in relation to  
21 what interrelation to engaging stakeholders,  
22 indigenous groups, or others, about that, at the  
23 strategic -- or a concept level?

24 MR. SWATEK: At the concept level, no,  
25 because we are still working with the MISO pool at

1 that point. It is a matter of working out who  
2 wants the power and how much power do they want.  
3 That was not -- that was not finalized until I  
4 believe October 2013.

5 MR. MADDEN: Those are all the  
6 questions I have. Thank you.

7 THE CHAIRMAN: Thank you very much.

8 Do we have questions at this time from  
9 Manitoba Wildlands? Ms. Whelan Enns.

10 MS. WHELAN ENNS: Staying on this  
11 time. I expected a few more questions from the  
12 MMF, Mr. Chair. Maybe we all did.

13 For those who are not used to me  
14 arriving with lots of tags, I'm sort of known for  
15 that approach to cross-examination. Feel free to  
16 tell me if I've already asked one before, because  
17 I have two sequences, handwritten notes with tags  
18 and your slides also. I'm going to basically go  
19 into my notes first. Okay. They are, then, in  
20 the order of presentation.

21 I was going to ask about Slide 17, but  
22 we have just had a fair bit of information about  
23 the Riel/Vivian line, and I'll come back to it  
24 later.

25 I just wanted, as a point of

1 information, to let you know that Slides 18 and 20  
2 are quite hard to see in the room. Now, we are  
3 working on a smaller screen sometimes, but I have  
4 brand-new glasses, so I thought I would just  
5 basically let you know that.

6 Mr. Toyne has asked the questions I  
7 was going to ask about the NERC regulation. I am  
8 very interested, though, in Manitoba Hydro's  
9 policy in terms of what you provide publicly on  
10 website with respect to everything to do with  
11 FERC, NERC, and MISO or MISO, however you want to  
12 pronounce it.

13 In our office, we have often had to in  
14 fact go to the American sources for this  
15 information.

16 MR. SWATEK: All of the information  
17 relating to NERC and MISO is posted on Manitoba  
18 Hydro's OASIS website. That's a -- it is the open  
19 access real time in force -- Open Access Same Time  
20 Information System. Manitoba Hydro has a page on  
21 there; that's where all of the MISO utilities post  
22 their information, for transparency.

23 MS. WHELAN ENNS: And in Canada, then,  
24 that includes the Saskatchewan Power Corporation  
25 and Manitoba Hydro, in terms of the region for

1 MISO?

2 MR. SWATEK: SaskPower has a  
3 relationship with MISO. They apply the NERC  
4 standards in their own way, as do other Canadian  
5 jurisdictions, yes.

6 MS. WHELAN ENNS: Fair enough. It is  
7 good to hear about OASIS.

8 Going back to my first question on  
9 this, is there a specific link on your website  
10 with the information about MMTP, in order to find  
11 the information about MISO, NERC, and FERC,  
12 through OASIS? This would include, for instance,  
13 presentations that Manitoba Hydro has made in  
14 those forums regarding this project over the  
15 last -- and transmission and capabilities and  
16 import and export capabilities over the last  
17 several years.

18 MR. SWATEK: I do not know if our  
19 website has a direct link to OASIS. I tend to go  
20 directly there, myself.

21 MS. WHELAN ENNS: The question, of  
22 course, is from a participant trying to access  
23 information and asking questions about that  
24 access. So I would strongly recommend that  
25 whenever a Manitoba Hydro project is involved with

1 those regulations and those reporting requirements  
2 into the United States, that there be a link on  
3 that project, with that project's information.

4 But thank you. Okay. That one has  
5 been asked.

6 I was following to the best of my  
7 ability everything that was being said about the  
8 weather report, the weather study. Is the weather  
9 study available to the CEC and to the  
10 participants?

11 MR. SWATEK: There is a summary of the  
12 weather study in the EIS. The entire study,  
13 though, had not been filed.

14 MS. WHELAN ENNS: Is that a matter of  
15 Dr. Moss's preferences, or Manitoba Hydro's  
16 preferences, as in how was it contracted that it  
17 is not available?

18 MS. S. JOHNSON: To clarify, I don't  
19 think that we said we wouldn't file it. We just  
20 said that it wasn't filed as part of the EIS, and  
21 that a high-level summary was provided in the EIS,  
22 and that impacted some of the commentary in the  
23 EIS. I don't think that we indicated that we were  
24 not willing, or wouldn't.

25 MS. WHELAN ENNS: Fair enough. You

1 recall tracking it is accurate, Ms. Johnson, so  
2 then the request stands; will you make it  
3 available?

4 MS. S. JOHNSON: Yes, we will.

5 MS. WHELAN ENNS: Thank you. That's  
6 great.

7 Again, in terms of my learning at the  
8 back of the room and what we heard about this  
9 study, it sounded to me -- and correct me if I got  
10 it wrong -- that most of the emphasis with this  
11 weather study had to do with the risk of both  
12 lines in the MMTP project going out. So I  
13 couldn't tell from what I heard today whether you  
14 also did the same amount of analysis in terms of  
15 only one line going out, or the lines going out  
16 alternately, depending on what might be increasing  
17 in our world these days, which is a combination of  
18 extreme weather events of different kinds.

19 MR. SWATEK: The weather study was  
20 commissioned to develop the design for the  
21 transmission line. It's standard practice. The  
22 original scope of the weather study dealt with  
23 extreme winds and icing. The information required  
24 to design the 1-in-150-year tower.

25 When we became concerned about the

1 buffer and what the minimum requirements might be  
2 there, we went back to Bob Morris and requested  
3 that he expand the scope of his study at that  
4 point to include extreme weather events that could  
5 take out two lines.

6 But the original scope of the study  
7 was exactly what you had asked for. It was what  
8 do we need to know to design this new line.

9 MS. WHELAN ENNS: I appreciate that,  
10 and thank you for the correction on his name.  
11 There are lots of names, acronyms, and terms in  
12 the coming months.

13 I think that we had an earlier  
14 question from a previous participant that's  
15 probably Ms. Johnson. And it is an obvious one,  
16 but then perhaps it is relevant to have it on the  
17 record.

18 In terms of the steps with the scoping  
19 document, to arrive at the final scoping document  
20 for the MMTP, do you see any challenges between  
21 what is in the final scoping document and the new  
22 terms of reference for these hearings?

23 MS. S. JOHNSON: No, I think the  
24 updated terms of reference are still met through  
25 the EIS, as described in the scoping document.

1 MS. WHELAN ENNS: Thank you.

2 When the scoping document process  
3 began, were there any basic table of contents,  
4 ingredients or assumptions for that scoping  
5 document exchanged between Manitoba Hydro and our  
6 Environmental Approvals Branch in Sustainable  
7 Development Manitoba?

8 MS. S. JOHNSON: Not to my  
9 recollection was there dialogue prior to the -- in  
10 specifics of the table of contents or what it  
11 would include. To the best of my knowledge, it  
12 was filed, and comment was provided back.

13 MS. WHELAN ENNS: So does that mean  
14 that Manitoba Hydro drafted the first version of  
15 the scoping document based on your experience with  
16 EIS products for transmission in Manitoba? Or  
17 were you in fact at that point considering your  
18 methodology for routing, et cetera?

19 MS. S. JOHNSON: It was certainly  
20 based on that, as well as the requirements under  
21 the NEB Act as well.

22 MS. WHELAN ENNS: Thank you.

23 Mr. Chair, this is just a point of  
24 information. We were talking about the Manitoba  
25 Hydro Act -- I'm sorry, I think I'm missing a word

1 in the name of the Act -- and the regulation from  
2 2012.

3 So I took a look online, both in the  
4 consolidated and listed regs, both ways, and there  
5 does not appear to be anything prior to that 2012  
6 regulation with the same objectives, unless it is  
7 prior to what is online. What is online goes back  
8 to sort of about 1990.

9 So again, a point of information: I  
10 couldn't find anything additional.

11 We had some information based on the  
12 questions that Mr. Toyne was asking this afternoon  
13 about the last significant drought in Manitoba  
14 being in 2003/2004. And it occurred to me that it  
15 might be worth asking, for all of our information,  
16 then what happened the next year in terms of  
17 drought or the alternative in Manitoba? Another  
18 way of asking this question would be what Manitoba  
19 Hydro's profit was in 2005.

20 MS. MAYOR: I'm sorry, I'm not sure of  
21 the relevance of that question in terms of  
22 Manitoba Hydro's profits in 2005, if that was the  
23 question. And I apologize if I misunderstood.

24 MS. WHELAN ENNS: No, it's okay; I was  
25 just wording it a different way. I was trying to

1 basically bring some attention to extreme weather  
2 patterns that affect our province and affect the  
3 operations of Manitoba Hydro.

4 So in 2005, we had more water in  
5 Northern Manitoba than we'd had in 300 years, and  
6 so that of course positively affected the bottom  
7 line. But it also is a direct contrast from one  
8 year to the next, which is again why I was trying  
9 to word the question.

10 Thank you for the help on that. I  
11 wasn't getting to profits; I was getting to the  
12 contrast in weather.

13 We were told in the workshop regarding  
14 your routing methodology that Manitoba Hydro  
15 decided not to bring the methodology experts that  
16 assisted you in using this methodology to the  
17 hearings. Two of the interns from our office  
18 attended a very early workshop regarding MMTP  
19 where at least one of those individuals were  
20 present. So I would appreciate if you would tell  
21 us again why we don't have access to them.

22 MR. MATTHEWSON: So my question was --  
23 or my response when I was asked that question on  
24 January 19th was that we would take it under  
25 advisement on whether those experts would appear

1 before this panel. And in fact, Manitoba Hydro  
2 will be presenting those experts in the routing  
3 panel in the upcoming days. One of those experts,  
4 Jessie Glasgow, from Team Spatial.

5 MS. WHELAN ENNS: Thank you. Take the  
6 correction, and that's good news. Thank you.

7 I would like to return to the subject  
8 of the video. We have a schedule that -- there's  
9 a break at 12:30. I had a meeting today, so I had  
10 not seen the video. And I'm very curious. Okay.  
11 And I have heard various positive comments sitting  
12 back in the room.

13 But we also have a video now that is  
14 in fact in evidence, but we don't have the video.  
15 So what I -- and I have two experts that need this  
16 video yesterday or tomorrow, and it is not going  
17 to be on the website. It is also going to be --  
18 if it is viewing only, that's a problem for  
19 experts who are out of province. So I would  
20 appreciate knowing whether or not we will have CDs  
21 or DVDs, and how soon Manitoba Hydro has done --  
22 taken this same approach in terms of providing CDs  
23 and DVDs of videos in past hearings.

24 MS. S. JOHNSON: We do have the video  
25 on USB sticks that are available to the

1 participants.

2 MS. WHELAN ENNS: Is there a supply  
3 here now?

4 MS. S. JOHNSON: Currently, we have  
5 nine.

6 MS. WHELAN ENNS: I would appreciate a  
7 couple so I can send them this evening.

8 MS. S. JOHNSON: You know what? I  
9 will provide them to Cathy.

10 MS. WHELAN ENNS: This is also good  
11 news. Thank you.

12 We've just had a discussion, because  
13 we are all working on understanding the -- the  
14 history of the Riel/Vivian line. And there were a  
15 couple of things that I think perhaps our chair,  
16 in his past responsibilities, and I and a few  
17 others in the room might well know about.

18 So let's try this again. We are  
19 talking about a line that was built in 1980. In  
20 1980, there was no Environment Act or environment  
21 licensing in Manitoba. When the Act was  
22 proclaimed, much of -- well, Manitoba Hydro's  
23 infrastructure, but a lot of infrastructure in  
24 this province was grandfathered under the new Act.

25 I'm hoping that the chair will stop me

1 if I misstate anything in this sequence.

2 The issue, I think, at hand is  
3 whether, then, in 2014, there was anything issued  
4 by Environmental Approvals under the Environment  
5 Act in Manitoba in relation to this infrastructure  
6 having been grandfathered, when the Act was  
7 proclaimed.

8 And if so, we need the paper. We  
9 would like to know exactly -- because this is  
10 quite usual, if I may; if you have got a  
11 grandfathered plant, mill, operation, or  
12 infrastructure, under the Environment Act in  
13 Manitoba, then it is often fairly straightforward,  
14 perhaps too simple a process, when something is  
15 changed, added to, or altered in that  
16 infrastructure years later.

17 So I very much -- I think it is  
18 relevant to this proceeding, and to the regulatory  
19 process overall, to know what occurred in 2014,  
20 Provincially, if anything, under the Environment  
21 Act. I understand what you've said about the NEB.

22 MS. S. JOHNSON: It is my  
23 understanding that the sectionalization of the  
24 line was covered as part of the Provincial  
25 process.

1 MS. WHELAN ENNS: Which is a reference  
2 to the 2014?

3 MS. S. JOHNSON: Yes, and I think the  
4 licence -- no, sorry, what was your question  
5 again?

6 MS. WHELAN ENNS: Are you saying that  
7 sectionalization is the 2014 process, or is it  
8 another year?

9 MS. S. JOHNSON: The licence was  
10 issued for the Riel sectionalization in 2009, not  
11 in 2014.

12 MS. WHELAN ENNS: And the changes,  
13 then, in 2014 will in fact have been what are  
14 referred to as minor changes under the Act, based  
15 on the 2009 licence, would be my guess.

16 MR. MATTHEWSON: Just -- so when you  
17 refer to 2014, are you referring to the Bipole III  
18 licence? I'm --

19 MS. WHELAN ENNS: No, I was not.

20 MR. MATTHEWSON: Okay. So, the Riel  
21 international power line has been -- portions of  
22 it have been incorporated into a variety of  
23 different impact statements. The Riel  
24 sectionalization statement of 2009 incorporated  
25 the sectionalization, as Mr. Swatek commented,

1 when it was -- and sectionalization, for  
2 simplistic terms, is where the line is  
3 reterminated to a station. Previously it was  
4 called D602F, which went from Dorsey to Forbes.  
5 When it was sectionalized, it was sectionalized at  
6 Riel and became M602F.

7                   During that sectionalization, it was  
8 licensed -- the re-termination of that line at  
9 Riel was licensed under the Riel sectionalization  
10 project in 2009. In -- the next time that  
11 transmission line was modified was with respect to  
12 the Riel converter station improvements at the  
13 Riel site as a result of the Bipole III project,  
14 in which the Riel line was -- its termination into  
15 the station was adjusted, or modifications to the  
16 transformer banks and structure yards were  
17 adjusted.

18                   MS. WHELAN ENNS: Thank you. I  
19 appreciate the thoroughness of your answers.

20                   Given that we are not able to ask the  
21 Director of Environmental Approvals questions in  
22 these proceedings -- I know that this seems to be  
23 a little bit offside, but there are various  
24 participants in this room who are very interested  
25 in both that sequence and the geography, and then

1 some of us who are also trying to understand and  
2 learn about the NEB. So thank you again.

3 I'm switching. Different set of  
4 yellow tags. And I have a request. This one I've  
5 made before. It is not a complaint; it is a  
6 request.

7 I really would recommend and request,  
8 from today going forward, that Manitoba Hydro put  
9 the name of the panel and the name of the speakers  
10 on the top page of each of these. We find in our  
11 office that five years later, it really matters.  
12 You know, we don't have the answers to who said  
13 what without going to the transcript.

14 So that's a request. And it is not a  
15 request for an undertaking; it is just a request.

16 I am on Slide 5. And I would like to  
17 know -- and I take direction in terms of what I  
18 may have missed in the EIS, but I would like to  
19 know which environmental and conservation  
20 organizations in Manitoba were engaged by Manitoba  
21 Hydro regarding the MMTP.

22 MR. MATTHEWSON: That information, in  
23 detail, can be found in appendix 3A.

24 MS. WHELAN ENNS: I guess the question  
25 one should ask at coffee break, so that one is

1 better prepared. But thank you.

2 The reason I'm asking is because I  
3 know that Manitoba Wildlands was involved in  
4 fairly thorough engagement in terms of Lake  
5 Winnipeg Regulation, and I'm drawing a blank on  
6 MMTP. So that's where my question is coming from.

7 MR. MATTHEWSON: Yes. Manitoba  
8 Wildlands was included in the engagement process.

9 MS. WHELAN ENNS: Thank you. I will  
10 read up about MISO. Okay. Thank you.

11 I'm on slide 6, and I honestly don't  
12 know the answer to this question, so it is always  
13 best if you do before you ask, but did Manitoba  
14 Hydro in any way participate in the two reviews of  
15 the Environment Act that were conducted, one  
16 through the Commission and one through the  
17 Environmental Approvals Branch in the Manitoba  
18 Government, now Sustainable Development Manitoba.

19 MS. S. JOHNSON: Manitoba Hydro did  
20 provide feedback and comment.

21 MS. WHELAN ENNS: Did you, in that  
22 feedback, note the areas that we are all working  
23 on here for a month or so in terms of the  
24 Environment Act? For instance, not having a  
25 specific regulation on environmental assessment,

1 or cumulative assessment?

2 MS. S. JOHNSON: I can't recollect as  
3 to what was shared in regards to those topics.

4 MS. WHELAN ENNS: Fair enough.  
5 Appreciate -- appreciate the stage we're at on  
6 that. We may find we have to come back to it.

7 I'm now on -- I think probably the  
8 list of presentations in Slide 8, but I became  
9 interested, again, in the discussion from previous  
10 participants' cross-examination about weather  
11 events. So I would like to know whether or not  
12 Manitoba Hydro used the Western Canadian climate  
13 data at all in arriving at the contents of the  
14 EIS, or in the work with Dr. Morris.

15 This is a University of Winnipeg  
16 endeavour, which I believe you support  
17 financially.

18 MS. S. JOHNSON: I think this question  
19 might be better addressed through the biophysical  
20 panel.

21 MS. WHELAN ENNS: Fair enough. We  
22 will come back to it, then.

23 On that point, Ms. Johnson, what I'm  
24 going to do, if I may, is indicate that we will  
25 have questions that are broader than the

1 10-kilometre buffer in terms of tornadoes, and  
2 questions about how many there have been in the  
3 entire region or regions affected by this project  
4 in set periods of time.

5 I have outrun a couple of tornadoes  
6 that have been in that region in the last five  
7 years, so I'm very interested in how much more  
8 information Manitoba Hydro has about tornadoes.

9 I'm on Slide 11 and 12 now. And I'm  
10 going to ask another question about location and  
11 the EIS. I have our consultants in B.C. taking a  
12 look today also, because the areas that I have  
13 read, the chapters I have read that I'm most  
14 interested in, I didn't catch the learnings. So  
15 are they written into the text, or are they  
16 actually all in the same pattern and same  
17 identifiable sections in the chapters in the EIS?  
18 Learnings from past assessments in each EIS  
19 chapter?

20 MS. S. JOHNSON: I believe it is -- in  
21 the first three to four pages of each chapter,  
22 there is an actual heading on lessons learned.

23 MS. WHELAN ENNS: Fair enough.

24 MS. S. JOHNSON: So they should be  
25 consistent to the EIS.

1 MS. WHELAN ENNS: I will take another  
2 thorough look. And there is one more question  
3 left.

4 Oh, and we've answered it. It is  
5 Riel/Vivian again.

6 Thank you. All of you, including the  
7 back row.

8 THE CHAIRMAN: Thank you, Ms. Whelan  
9 Enns.

10 MS. WHELAN ENNS: Thank you.

11 THE CHAIRMAN: So next we will be  
12 turning to the Consumers Association of Canada.  
13 Thank you.

14 MS. PASTORA SALA: Thank you  
15 Mr. Chair.

16 Good afternoon. For the record, my  
17 name is Joelle Pastora Sala. I will also try to  
18 be brief with my questions this afternoon, as I  
19 only have one area of questioning for you.

20 My questioning relates to the "Journey  
21 to Today" portion of the PowerPoint, which  
22 canvasses the environmental assessment process. I  
23 believe most of my questions, if not all of my  
24 questions, will be for you, Ms. Johnson.

25 So for your information, I will be

1 referring to the excerpts of the CEA Act, which I  
2 provided, and everyone should have a copy. So  
3 that would be Sections 4(1)(c), as well as 18.

4 Ms. Johnson, I will also be referring  
5 to the letter dated of April 19, 2017, from Sheri  
6 Young, who is the secretary of the National Energy  
7 Board, which was addressed to Jennifer Moroz,  
8 counsel to Manitoba Hydro, as well as to Jason  
9 Madden, counsel to the MMF.

10 Before I ask my questions, I just  
11 wanted to be very clear that while I will be  
12 referring to some Federal legislation in my  
13 questions, I am not seeking your legal opinion,  
14 but I am simply looking for your knowledge of the  
15 regulatory process, given your position.

16 So, Ms. Johnson, you are the manager  
17 of licensing and environmental assessment for  
18 transmission with Manitoba Hydro. Correct?

19 MS. S. JOHNSON: That is correct.

20 MS. PASTORA SALA: And you have been  
21 in this position since 2012?

22 MS. JOHNSON: Yes, I have.

23 MS. PASTORA SALA: And as such, you  
24 would have knowledge of the environmental  
25 assessment and regulatory process for the

1 Manitoba-Minnesota Transmission Line project?

2 MS. S. JOHNSON: Yes, I would have  
3 knowledge of that, along with the many people that  
4 worked on this EIS as well.

5 MS. PASTORA SALA: Yes. Thank you.

6 It is my understanding that the EIS  
7 for the Manitoba-Minnesota Transmission Project is  
8 meant to meet the requirements of the Provincial  
9 environmental assessment process under the  
10 Environment Act, as well as the Federal process  
11 under the National Energy Board Act and CEA Act,  
12 2012. Is that correct?

13 MS. S. JOHNSON: That is correct.

14 MS. PASTORA SALA: In other words,  
15 Manitoba Hydro requires authorization under  
16 Section 58.1 of the NEB Act to construct, operate  
17 the international power line because it will  
18 connect to the Great Northern Transmission Line in  
19 the U.S. Correct?

20 MS. S. JOHNSON: That's correct.

21 MS. PASTORA SALA: And information for  
22 the Manitoba-Minnesota Transmission project can  
23 also be found on the electronic filing on the NEB  
24 website?

25 MS. S. JOHNSON: That would be

1 correct.

2 MS. PASTORA SALA: I would like to now  
3 take you to page 2-8 of the EIS.

4 And my apologies; I forgot to tell you  
5 I was referring to that page as well.

6 MS. S. JOHNSON: All right. We have  
7 got 2-8.

8 MS. PASTORA SALA: If you go to the  
9 third paragraph under the subtitle -- or the title  
10 "Primary Requirements," or the last paragraph  
11 before the next section.

12 So under 2.3.3.1, the last paragraph.  
13 The paragraph that begins with "Notwithstanding  
14 Federal ..."

15 Are you there?

16 MS. S. JOHNSON: I'm there.

17 MS. PASTORA SALA: Okay. So it says:

18 "The Province of Manitoba issued  
19 Order-in-Council Number 00386-2013 under the  
20 authority of Section 58.1(7) and Section 58.2 of  
21 the NEB Act. The Order-in-Council designated the  
22 Minister of Conservation and Water Stewardship as  
23 a Provincial regulatory agency for the proposed  
24 IPL."

25 Do you see that?

1 MS. S. JOHNSON: Yes, I do.

2 MS. PASTORA SALA: And the Minister of  
3 Conservation and Water Stewardship, I guess, would  
4 now be what we would refer to as the Minister of  
5 Sustainable Development?

6 MS. S. JOHNSON: That's correct.

7 MS. PASTORA SALA: So my understanding  
8 of this statement is that within the Provincial  
9 Government, the Minister of Sustainable  
10 Development is the responsible regulatory  
11 authority for the Manitoba-Minnesota Transmission  
12 Project. Is that consistent with your  
13 understanding?

14 MS. S. JOHNSON: Can you please repeat  
15 that?

16 MS. PASTORA SALA: Yes. So within the  
17 Province, the Minister of Sustainable Development  
18 is the responsible regulatory authority for the  
19 MMTP?

20 MS. S. JOHNSON: That would be  
21 correct.

22 MS. PASTORA SALA: Now, I would like  
23 you to take you to the excerpt of the CEA that I  
24 had provided, and Section 4(1). And if you could  
25 go to section 4(1)(c).

1 Are you there?

2 MS. S. JOHNSON: I'm there, yes.

3 MS. PASTORA SALA: It states that one  
4 of the purposes of CEA 2012 is:

5 "To C, promote cooperation and  
6 coordination action between Federal and Provincial  
7 governments with respect to environmental  
8 assessments."

9 And then if we go to Section 18, it  
10 states:

11 "The responsible authority with  
12 respect to a project must offer to consult and to  
13 cooperate with respect to the environmental  
14 assessment of the designated project with any  
15 jurisdiction."

16 I don't need to take you there, but  
17 then in Section 2(1) of the Act, it defines  
18 jurisdiction as to include a province.

19 Are you still following me?

20 MS. S. JOHNSON: I think so.

21 MS. PASTORA SALA: Okay. We can come  
22 back, if you -- if once I get to my question, you  
23 are not sure.

24 Now let's go to the letter from Sheri  
25 Young to Ms. Jennifer Moroz and Jason Madden.

1 Do you have a copy of this letter?

2 MS. S. JOHNSON: I do.

3 MS. PASTORA SALA: Are you familiar  
4 with the contents of this letter?

5 MS. S. JOHNSON: Yes, I am.

6 MS. PASTORA SALA: So let's go to  
7 page 5 of the letter.

8 Under the heading "Timeline," in the  
9 second paragraph, at about the middle of the  
10 paragraph, it says:

11 "The Board expects to make a  
12 determination under CEA 2012 and to decide to  
13 either issue a permit or make a recommendation to  
14 the Minister under Section 58.14, if the board  
15 determines that this is warranted in 2018."

16 Do you read that?

17 MS. S. JOHNSON: Yes.

18 MS. PASTORA SALA: Is it your  
19 understanding that this means that the NEB will be  
20 making a determination of whether or not they will  
21 be conducting a public hearing on the MMTP  
22 following the completion of the CEC hearing?

23 MS. S. JOHNSON: I'm not sure I'm the  
24 right person to be asking in regards to what the  
25 meaning is of this. But my understanding is that

1 in 2018, the Board will determine whether or not  
2 it will issue a permit.

3 MS. PASTORA SALA: So right above  
4 that, it talks about:

5 "The Board has determined that it will  
6 not commence the environmental assessment under  
7 CEA 2012 until after this CEC public hearing is  
8 completed for the proposed MMTP in order to reduce  
9 any duplication of the environmental assessment  
10 required by each of the Province of Manitoba and  
11 the Board."

12 And then it talks about waiting until  
13 the completion of the hearing. Is that --

14 MS. S. JOHNSON: Yes, that's my  
15 understanding, according to the letter.

16 MS. PASTORA SALA: Okay. So we heard  
17 a presentation this morning from Ms. Tracey Braun  
18 of the Environmental Approvals Branch, and during  
19 her presentation, Ms. Braun stated that the CEC  
20 hearings are being held in lieu of the NEB  
21 hearings. Does Manitoba Hydro share Ms. Braun's  
22 understanding?

23 MS. S. JOHNSON: My understanding in  
24 the letter that we received from the NEB is that  
25 they haven't formally made a determination as to

1 what they are going to do. But insomuch as  
2 Ms. Braun's presentation, I think her  
3 understanding of it is -- and her understanding of  
4 the process is better asked to her.

5 MS. PASTORA SALA: So this would be  
6 the first time that you've been made aware that  
7 the CEC hearings are happening in lieu of the NEB  
8 hearings?

9 MS. S. JOHNSON: Yes. I believe  
10 Manitoba Hydro's hope is that the CEC process will  
11 be robust, such that it may allow for the NEB to  
12 look at this process. But determination of  
13 whether or not a NEB hearing would be required  
14 isn't up to Manitoba Hydro.

15 MS. PASTORA SALA: Okay. Let's talk  
16 about something that might be within Manitoba  
17 Hydro's control.

18 Given that we are all learning this  
19 today, what is Manitoba Hydro's intention in terms  
20 of addressing the significant change in process?

21 MS. S. JOHNSON: The change in  
22 process -- I guess, from a Manitoba Hydro  
23 standpoint, we are going through a CEC hearing; we  
24 are going to provide information to the panel, and  
25 the process, from a Provincial standpoint, will

1 take place after that. I don't believe it's  
2 changing our actions at all.

3 MS. PASTORA SALA: But this would be  
4 the first time that you've been made aware that  
5 this CEC hearing may be happening instead of or in  
6 lieu of the NEB hearings?

7 MS. S. JOHNSON: Whether or not they  
8 are happening in lieu of doesn't impact the  
9 presentations we are going to be making, or  
10 actions on our part.

11 MS. PASTORA SALA: Would you agree  
12 that transparency in decision-making is a  
13 important feature of environmental assessment?

14 MS. S. JOHNSON: Yes, I would.

15 MS. PASTORA SALA: Would you agree  
16 that availability of information to the public in  
17 a timely manner is also an important feature of  
18 transparency in decision-making?

19 MS. S. JOHNSON: Yes, I would.

20 MS. PASTORA SALA: Thank you. Those  
21 are my questions.

22 THE CHAIRMAN: Thank you very much.

23 Mr. Mills, I would have a question of  
24 you, given the hour. It is 4:25. Do you have any  
25 estimate for how long you might be?

1 MR. MILLS: Five or ten minutes.

2 THE CHAIRMAN: Go ahead, then. But in  
3 ten minutes or so I will call it, and we will  
4 continue in the morning if you need it.

5 MR. MILLS: We will try and hustle  
6 along.

7 THE CHAIRMAN: Okay. Thank you.

8 MR. MILLS: Good afternoon.

9 I have never met a last name that I  
10 couldn't butcher, so I'm going to speak to  
11 Shannon, Shane, James, and David. And respecting  
12 the chair's concerns about timing, I think what I  
13 may do is ask questions, and ask you to be  
14 prepared to answer them at the specific panels as  
15 we roll through the next few weeks.

16 Shannon, the terms of reference, the  
17 revised terms of reference indicate that this  
18 process is to review the EIS, and it makes the  
19 statement that a technical review will be  
20 completed by Provincial agencies and Federal  
21 specialists, and documents produced during this  
22 assessment should be considered by the Commission  
23 as input for the hearings.

24 I think, as some in the room know, we  
25 have concerns as to the adequacy or transparency

1 of the TAC process.

2 Shannon, in your review of the  
3 documents that we've received, is it fair to say  
4 that the documents produced by the TAC committee  
5 and provided to Manitoba Hydro have been made  
6 available to this process? And if you would like  
7 to think about that, we can talk about that later  
8 on.

9 We get the sense that there is  
10 information missing. We see correspondence from  
11 the TAC response on the public registry that refer  
12 to -- I'm paraphrasing, but further to discussions  
13 and information provided to us from Manitoba  
14 Hydro, we have no concerns with this issue at this  
15 time. And it seems to us that the terms of  
16 reference that we are all working under indicate  
17 that those documents, prior to acceptance by a TAC  
18 member, are documents produced during the  
19 assessment, and that they should be available to  
20 the Commission as input for the hearings.

21 So could I ask you to have your team  
22 consider if there is TAC correspondence that is  
23 not in the public registry and has lead up to TAC  
24 conclusions? Because we believe that the terms of  
25 reference that we are all required to work under

1 indicate that that information is to be considered  
2 by the Commission as input to these hearings, and  
3 we get the sense it hasn't been.

4 We may be wrong, but we will ask you  
5 to have a look at that, and we will come back to  
6 it.

7 Shannon, as you know, in our IRs and  
8 directly in person, we've asked you if the panel  
9 will include the Pembina Institute, to allow us to  
10 review the greenhouse gas life cycle analysis.  
11 That is one of the two mandatories that we find  
12 within the Environment Act, and we observe, again  
13 and again, that the Pembina Institute doesn't seem  
14 to have been made available for any prior Clean  
15 Environment Commission hearing.

16 So will the Pembina Institute be made  
17 available for their GHG LCA to be reviewed?

18 MS. S. JOHNSON: While the Pembina  
19 Institute will not be part of this hearing, we  
20 will have a Manitoba Hydro employee with expertise  
21 in that area to take on those types of questions  
22 for you.

23 MR. MILLS: Okay. Will their CV be  
24 made available to us, or has it been? And if they  
25 are going to be on your panel, shouldn't it have

1    been?

2                   MS. S. JOHNSON:  It is.  On the panel,  
3    I've got the first name; I can't remember his last  
4    name.  We have a couple of Mikes.  I will tell you  
5    who it is in a minute.

6                   MR. MILLS:  Okay.  We'll get back to  
7    that.  Could you also --

8                   MS. S. JOHNSON:  No, just give me two  
9    seconds.

10                  MR. MILLS:  Okay.

11                  MS. S. JOHNSON:  Let's finish this  
12   off, because --

13                  MR. MILLS:  All right.

14                  MS. S. JOHNSON:  -- there's a lot of  
15   "I've got to get back to you on," so let's see if  
16   I can put this one to bed.  Just give me a minute.

17                  MR. MILLS:  I'm fine with you getting  
18   back.

19                  MS. S. JOHNSON:  With a team of over  
20   100 people, it is sometimes a little difficult to  
21   keep all of the names straight.  We will get back  
22   to you as to the individual.  And his CV has been  
23   provided.

24                  MR. MILLS:  Okay.

25                  We haven't found, within any of the

1 CVs provided, anyone with specific life cycle GHG  
2 analysis credentials. Is Manitoba Hydro aware  
3 that the Canadian Standards Association certifies  
4 life cycle analysts?

5 MS. S. JOHNSON: I would probably  
6 defer that question --

7 MR. MILLS: To the panel?

8 MS. S. JOHNSON: -- to the panel with  
9 the expertise.

10 MR. MILLS: Okay.

11 MS. S. JOHNSON: I don't have  
12 expertise in that area.

13 MR. MILLS: I respect that, and I  
14 would rather too.

15 Which panel will that be? Which panel  
16 will speak to greenhouse gas?

17 MS. MAYOR: I can assist. The  
18 individual --

19 MR. MILLS: Is that biophysical?

20 MR. MILLS: The individual is Mike  
21 Shaw, and he will be on the biophysical panel.

22 MR. MILLS: He isn't currently listed  
23 on your biophysical panel. Is that an oversight,  
24 or a recent addition?

25 MS. MAYOR: He is in the back row.

1 And his CV has been provided.

2 MR. MILLS: Okay. Could he be brought  
3 to the front row?

4 MS. S. JOHNSON: If the questions  
5 warrant it, yes.

6 MR. MILLS: Great. Thank you.

7 Does Manitoba Hydro vet the CVs of  
8 your team before they present them to this  
9 process?

10 MS. S. JOHNSON: No, we don't.

11 MR. MILLS: You don't. Okay.

12 Who will speak to the Stantec air  
13 quality report, and what panel will that be on?  
14 Again, will that be biophysical?

15 MS. S. JOHNSON: I believe that will  
16 be the biophysical panel.

17 Or not; let me double-check.

18 I believe it's the socio-economic  
19 panel dealing with the health issues.

20 MR. MILLS: So many panels and so  
21 little time.

22 Would that be Butch Amundson from  
23 Stantec, would speak to that?

24 MS. MAYOR: It is Dr. Bryan Leece.

25 MR. MILLS: Dr. Bryan Leece?

1 MS. MAYOR: Yes.

2 MR. MILLS: Okay, great. Thank you.

3 When it comes to EMF, will Mr. Bailey  
4 be your only EMF witness?

5 MS. S. JOHNSON: Yes, he will be.

6 MR. MILLS: Thank you.

7 David, on the climate issues, Manitoba  
8 Hydro has a very powerful document that no one  
9 seems to reference or mention, but we found it.  
10 It is your Manitoba Hydro climate change report.

11 Regrettably, on the website, the last  
12 time you've released it was 2014, 2015; but we  
13 draw to your attention that within your own  
14 information, you were projecting some very  
15 substantive flow increases within your system.

16 And I'm sorry, I have -- and we will  
17 come back to this during the panel discussions,  
18 but I'm going to ask you to speak to the fact that  
19 you show runoff increases on the Red River basin  
20 in the foreseeable future of 19 per cent; in the  
21 Nelson-Churchill watershed, you show runoff  
22 increases of 10 per cent. And yet you seem to  
23 continually come back to the great fear of drought  
24 in the system, and that being part of the very  
25 good reason why this project needs to be built.

1                   And so if you could produce a more  
2   current copy of that information, Hydro indicates  
3   within it that they have a team that employs the  
4   Watt flood analysis. We are familiar with that;  
5   we enjoyed that information on Bipole. But if you  
6   could draw that information forward and have it  
7   available for that panel, we would appreciate it.

8                   Shane, Mr. Mailey, our client is  
9   concerned about Mother Earth, and the references  
10   to 80 and 100-metre-wide right-of-ways jumps off  
11   the page for us. We go comparative shopping, and  
12   we note that the Muskrat Falls 750 kVA line was  
13   60 metres wide. We note that you have existing  
14   500 kVA transmission inter-connections of close to  
15   half the width of this right-of-way.

16                  And it is not for today, but when we  
17   come to the construction panel, if you could have  
18   answers to what are the widths of other  
19   right-of-ways that Manitoba Hydro has developed,  
20   and why does this one need to be so much larger.

21                  And I sense it is a multifaceted  
22   answer, so I would just like to table it today and  
23   ask you if you could bring it to your construction  
24   panel.

25                  MR. MAILEY: They will be prepared to

1 explain that.

2 MR. MILLS: Great. Thank you.

3 We would also like a further  
4 understanding. We think it is germane, as we look  
5 at this connection, to understand the other  
6 connections that you have with the United States.  
7 So if you could bring to that panel an  
8 understanding of those other connections,  
9 including tower heights, tower spacing, and  
10 right-of-way widths.

11 We are trying to understand why you  
12 are building this the way you are. And if you  
13 have had issues with other lines that you can  
14 explain to us require more, bigger, we would  
15 respect that. But we haven't found it in your  
16 EIS. So if you could bring that information to  
17 that panel.

18 As I said, we are particularly  
19 concerned about a right-of-way that's 40 per cent  
20 wider than Bipole III; arguably twice as wide as  
21 the existing 500 kVA connection to the United  
22 States. And we are wondering, in the face of the  
23 concerns of Southern Stakeholders and all of the  
24 Aboriginal indigenous groups to what you are doing  
25 to the landscape, if you could provide us with

1 some rock-solid explanations as to why this needs  
2 to be twice as wide as, for instance, what B.C. or  
3 Saskatchewan have recently required for similar  
4 500 kVA lines. We would like to have a healthy  
5 conversation about that.

6 James, when you do that fly-by -- and  
7 again, this dovetails into our concerns about the  
8 width of the scar that we are going to cut through  
9 Manitoba -- would it be possible for the paint  
10 that chases the line to actually show the width of  
11 the right-of-way? You tell us that it may be 80,  
12 it may be 100; it depends on guyed towers. Hydro  
13 will use some discretion in that regard.

14 I'm not asking you to commit to the  
15 width, but I think it is disingenuous, when you  
16 show us that painted followed line, and it doesn't  
17 really indicate the width of what you are doing.

18 So if you could consider that. And  
19 otherwise, thank you very much for working until  
20 6:30 on Sunday; that's a great presentation.

21 David, the transmission interconnect  
22 slide that you had, showing the quantities of  
23 interconnect, could you pull that back up, just  
24 for a brief minute?

25 And I'm just a few more minutes,

1 Mr Chairman. We're trying to hustle.

2 That's it. Without -- and I know  
3 contracts are sacred documents, but we don't  
4 understand why down an AC line, an export quantity  
5 can be so significantly greater than an import  
6 quantity. Is it the contracts of the product you  
7 are selling and buying? Or is it the design, the  
8 technical design of the line itself?

9 MR. SWATEK: It is neither of those.  
10 The transmission line, the transmission line  
11 itself, is exactly that. It is some wires in the  
12 air. The difference is the electrical systems on  
13 either side of that line.

14 If you have a very strong system on  
15 one side and a weaker system on the other, then  
16 you will be moving more power in one direction  
17 than the other. If we wanted to increase the  
18 import capability on that 500 kV line, that would  
19 take system improvements in the U.S., and they  
20 would have to want to do that.

21 But the -- yeah, the asymmetrical  
22 power flow has everything to do with the system  
23 capabilities on either end.

24 MR. MILLS: For both ends; thank you.

25 I didn't understand that.

1                   Shane, Mr. Mailey, we've been -- we've  
2    stumbled upon Hydro's YouTube videos on Bipole,  
3    and we've been enjoying them, and we acknowledge  
4    all of the information that you are getting to us.  
5    But by most cases, when you show us something, it  
6    also causes us to ask some questions.

7                   Recently we watched the YouTube, and  
8    we went down and witnessed the Erickson heavy-lift  
9    helicopters that were lifting the towers into  
10   place. Would it be Hydro's intention to use a  
11   similar technique in this project?

12                  MR. MAILEY: It would be determined  
13    after we award contracts. It certainly would be  
14    up to whomever gets that piece of the tender  
15    contract to determine in their construction. So  
16    we don't necessarily prescribe it, so it wouldn't  
17    be known for some time. It is a potential; it  
18    could be a potential.

19                  MR. MILLS: Thank you.

20                  The Sikorsky helicopters -- we called  
21    Erickson, and we had a chat with them about fuel  
22    burn. We are concerned about greenhouse gas, and  
23    we are concerned about the accuracy of the  
24    greenhouse gas information you provide us, because  
25    the Minister requires a mandatory thorough and

1 complete understanding of that. And when we  
2 extend the fuel consumption of the Jet A-1  
3 kerosene that those birds use, and we compare it  
4 against your Bipole greenhouse gas predictions,  
5 I'm not sure -- and I'm going to come back to this  
6 under your construction technique -- but if those  
7 helicopters are used, I'd suggest that your  
8 greenhouse gas life cycle analysis in this project  
9 is understated by as much as half.

10 Our information is those things  
11 consume as much as 700 gallons per hour, and our  
12 information is that the fuel they burn and the  
13 additives within them have a very high GHG  
14 contribution.

15 So it is a healthy discussion about  
16 greenhouse gas. Again, I get back to my first  
17 question: We wish the authors of your GHG report  
18 were here to explain to us why burning of slash  
19 and 1957 technology, massive turbine engines  
20 consuming thousands of litres an hour for hundreds  
21 of days, aren't included in your greenhouse gas  
22 analysis.

23 And we say again, and I'll ask for the  
24 last time, we really think that the authors of the  
25 GHG life cycle analysis should finally appear.

1 And they are in Calgary; it appears that they are  
2 available. And WestJet says it is 400 bucks.

3 Lastly, Shane, Mr. Mailey, we are  
4 concerned about electromagnetic fields. And I  
5 reread the questions that we asked of your expert  
6 for Bipole III, and I understood his answers.

7 Since then, we've done more research  
8 on that regard, and Shane, we are going to ask  
9 your construction folks to describe what, if any,  
10 techniques they incorporate into the design of  
11 this line to reduce greenhouse -- pardon me, to  
12 reduce electromagnetic fields.

13 There is some good information that  
14 we've found that indicate that the configuration  
15 of the line, the bundling of the conductors, the  
16 diameter and quality of the conductors, the height  
17 of the towers, we've seen information that  
18 indicates the davit or delta towers significantly  
19 reduce EMF.

20 We know that -- or we anticipate that  
21 Mr. Bailey will tell us that EMF is -- I love his  
22 quote, he indicates that he is more concerned of  
23 his children contacting Lyme disease than of EMF  
24 affecting them.

25 So I think we know where Mr. Bailey is

1 going to take us. But the fact that five northern  
2 states require EMF monitoring of projects of this  
3 size, the fact that the -- as an example, the  
4 Great Northern permit requires the utility to  
5 provide pre and post-construction EMF monitoring  
6 reports, we wonder if Manitoba Hydro couldn't do a  
7 better job of analyzing and attempting to reduce,  
8 or showing us that you have attempted to reduce,  
9 the EMF produced by this line.

10 David?

11 MR. SWATEK: Yes, I can answer your  
12 question, or at least speak to part of it.

13 MR. MILLS: Great.

14 MR. SWATEK: The delta configuration  
15 that the MMTP line uses does the most to minimize  
16 both electric and magnetic fields at ground level.  
17 The davit line that you refer to is simply a delta  
18 turned on its side.

19 Yes, the delta configuration that has  
20 the same separation between all three phases, as  
21 well as conductor bundling to increase the  
22 effective surface area of the conductors, these  
23 are all things that reduce the EMF at ground  
24 level.

25 MR. MILLS: And are these all things

1 that Manitoba Hydro incorporates in the design?

2 MR. SWATEK: Yes, these are  
3 incorporated into the design of MMTP.

4 MR. MILLS: When we look at your guide  
5 and your self-supporting lattice towers, those are  
6 what you believe to be the best configuration for  
7 the reduction for EMF?

8 MR. SWATEK: The delta configuration  
9 is, yes.

10 MR. MILLS: The heights of that delta  
11 configuration, and the distance between the  
12 bundles, as they say?

13 MR. SWATEK: The distance between the  
14 conductors, that's determined by electrical  
15 clearances within the tower. They are as tight as  
16 they can be while still allowing safe live line  
17 work to be carried out. And the height of the  
18 conductors is -- is to meet -- is to meet  
19 standards at ground level for induced currents on  
20 vehicles, which is a result of electric fields.

21 So yes, I would -- okay, coming from  
22 where I am here, I think the guy you really want  
23 to ask is the expert, Bill Bailey, on the EMF  
24 panel. But I would say these lines incorporate  
25 low EMF designs, yes.

1                   MR. MILLS: I will leave it for the  
2 Southern Stakeholders to consider whether -- I  
3 will leave that alone and move on.

4                   I guess, in summary, those are sort of  
5 the Coles Notes of the discussions we would like  
6 to have with your panels with regard specifically  
7 to greenhouse gas.

8                   Shane, we will want to talk about your  
9 procurement policies with regards to particularly  
10 the metals that you use. Your greenhouse gas  
11 report indicates that 50 per cent of the GHG is  
12 contributed as a result of the manufacturing of  
13 conductors, and you indicate that you look to  
14 China and India as the sources of your steel;  
15 probably the most egregious sources of materials  
16 available in the world.

17                   We would like to talk about what value  
18 your procurement policy puts on the environment.

19                   We would like to talk about  
20 information we've received from other  
21 jurisdictions.

22                   Small items: We have some sense of  
23 how you do this work, having participated in some  
24 of it. The Muskrat Falls project instituted a  
25 no-idling policy on all equipment. We would like

1 to see an accurate assessment of the greenhouse  
2 gas contribution that these Sikorsky helicopters  
3 truly contribute.

4 We observe that there is no discussion  
5 anywhere as to how your procurement policies view  
6 greenhouse gas and its -- and its role in this  
7 process.

8 And finally, we would also -- we would  
9 like you to be able to talk fully as to how you  
10 propose to dispose of the biomass that this  
11 project creates. We are going to point out that  
12 both Sandilands and Providence College are in your  
13 immediate jurisdiction, and they both rely heavily  
14 on biomass as an alternate fuel source.

15 We would like to talk about whether or  
16 not you intend to burn the slash that's created in  
17 the right-of-way clearing. We observe that it is  
18 just -- the Provincial crop-burning regulations  
19 say it is illegal, period, to do what Manitoba  
20 Hydro does with their slash, and I think the  
21 farmers of the Southern Coalition may wonder about  
22 that.

23 So we would just like to close by  
24 saying that thank you very much for creating tens  
25 of thousands of pages that have -- that we've had

1 to read, and that have torn apart our NHL  
2 experience this last few weeks.

3 But seriously, on a positive note, we  
4 commend Manitoba Hydro for the quality of the  
5 information you've provided us. We sincerely do.  
6 It is -- you know that it is significantly better  
7 than the previous product.

8 Having said that, we agree with CAC's  
9 observations that the bar needs to be continually  
10 raised. And we would like to talk about Mother  
11 Earth, and things that we can do in this project,  
12 and in the conditions that this Council provides  
13 to the Minister to further improve on how you do  
14 what you do. So we look forward to that.

15 I think my friend Craig has some  
16 questions that he would like to ask very briefly.

17 THE CHAIRMAN: I wonder if I could  
18 interrupt, just for a second. We are now at five  
19 to five, so I'm going to have to call -- you will  
20 be able to talk in the morning, unless it's very  
21 brief. But you can have all the time you need.

22 MR. BLACKSMITH: It is very brief.  
23 Very brief.

24 THE CHAIRMAN: Okay.

25 MR. BLACKSMITH: In going over the IR

1 requests -- there is over 600 of them, I believe,  
2 and again I'm reiterating that our Dakota people  
3 don't have any agreements with the Province of  
4 Manitoba, or Canada, or the Crown. So we are kind  
5 of on the outside looking in.

6           So I'm looking at this procedure, and  
7 I'm wondering, where does Manitoba Hydro get its  
8 authority from? It seems to have carte blanche to  
9 do anything that it wants. So, looking at the  
10 Manitoba Hydro Act, I come across 15.2 and 18 in  
11 the Manitoba Hydro Act, which outlines the powers  
12 of the corporation in expropriations, where they  
13 can basically, with or without the consent of the  
14 owner, enter, remain upon, take possession of, use  
15 any property, real or personal, erect, make, or  
16 place thereon any structure, installation, or  
17 excavation and flood.

18           Is there an agreement with the U.S. on  
19 the Minnesota side of the border that can be made  
20 available to the public?

21           And I'm saying this: If I'm running  
22 an extension cord to an outlet in a wall, I expect  
23 there to be infrastructure on the other side that  
24 would provide for or enable power. In listening  
25 to the proponent, the legal counsel from the

1 proponents, there seems to be an implication or --  
2 that this project hasn't been approved. But I'm  
3 sure that on the Minnesota side of this line, they  
4 are not going to build a transmission line if  
5 there hasn't been prior approval.

6 So if there is an agreement with  
7 Minnesota, will that be made public?

8 THE CHAIRMAN: Okay, I'm going to take  
9 this opportunity to interrupt and ask Hydro to  
10 provide that answer in the morning. We are almost  
11 at -- we are very close to 5 o'clock, so I'm going  
12 to call it. I'm not responsible for the lights  
13 here, but -- I want to thank whoever is.

14 So thank you all. We will be back  
15 here at 9:30 tomorrow morning.

16 MS. JOHNSON: Mr. Chair, before we  
17 finish, I have to put some exhibits on record  
18 here.

19 THE CHAIRMAN: Yes. Go ahead.

20 MS. JOHNSON: Okay. CEC Number 1 is  
21 the letter from the Minister. CEC Number 2 is our  
22 terms of reference. MSD Number 1 is the  
23 presentation we saw today from the Department.  
24 MH001 through 023 will include the EIS, TAC  
25 responses, supplemental information, IR responses,

1 witness lists, and the presentations we saw today  
2 from Manitoba Hydro. CAC Number 1 is their  
3 opening statement, 002 is the Canadian  
4 Environmental Assessment Act, and 3 is the letter  
5 from NEB regarding MMF. MMF001 is their opening  
6 statements.

7 (EXHIBIT CEC-1: Letter from the  
8 Minister)

9 (EXHIBIT CEC-2: Terms of reference)

10 (EXHIBIT MSD 1: Presentation)

11 (EXHIBIT MH001 through 023: EIS, TAC  
12 responses, supplemental information,  
13 IR responses, witnesses lists and the  
14 presentations)

15 (EXHIBIT CAC-1: CAC opening  
16 statement)

17 (EXHIBIT CAC-2: Canadian  
18 Environmental Assessment Act)

19 (EXHIBIT CAC-3: Letter from NEB  
20 regarding MMF)

21 (EXHIBIT MMF-1: Opening statement)

22 THE CHAIRMAN: Okay. Thank you. With  
23 that, we will close it until 9:30 tomorrow  
24 morning.

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(Adjourned at 5:00 p.m.)

OFFICIAL EXAMINER'S CERTIFICATE

Cecelia Reid and Debra Kot, duly appointed  
Official Examiners in the Province of Manitoba, do  
hereby certify the foregoing pages are a true and  
correct transcript of my Stenotype notes as taken  
by us at the time and place hereinbefore stated,  
to the best of our skill and ability.

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Cecelia Reid  
Official Examiner, Q.B.

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Debra Kot  
Official Examiner Q.B.

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