



# Meeting Summary – Jericho Wind Energy Centre Community Liaison Committee

**Attn.:** CLC members, NextEra Staff & Consultants

**Subject:** Jericho Wind Energy Centre, Community Liaison Committee (CLC): Meeting No. 2

June 18, 2015 6:00 pm to 8:00 pm

The Legacy Recreation Centre

16 Allen Street

**Present:**

CLC Members

- Mary Lynn Metras, John Moons, Marina Plain, Jamie Tabor, Eddy Van Engelen

NextEra Energy Canada

- Julie Rice, Director Business Management; Catherine Mitchell, Business Manager; Ben Greenhouse, Executive Director Development; Cassandra Bowers, Project Manager; Doug McIntosh, Regional Operations Manager;; Peter Miller, Operations Manager

Borea Construction

- Heidi Lamarche, Project Engineer

NRSI

- Christy Humphrey, Terrestrial & Wetland Biologist

AECOM

- Adam Wright, Tiffany Lobb

**Absent:**

- John Couwenberg, Carol Clay, Dean Jacobs, Marilyn Keuecke-Smith

Item Discussed	Action
<p><b>1. Welcome and Introductions</b></p> <p>Adam Wright (CLC Chair) welcomed the CLC and members of the public to the 2<sup>nd</sup> CLC meeting for the Jericho Wind Energy Centre.</p> <p>Chair then introduced himself and gave notice that Avril Fisker was unable to attend due to a family emergency then introduced Tiffany Lobb as the CLC Meeting Minutes recorder for the evening.</p> <p>Chair then invited CLC members and NextEra representatives to introduce themselves and outline their role.</p> <p><b>CLC Members</b></p> <ul style="list-style-type: none"> <li>• May Lynn Metras – Local citizen interested in wind farms</li> <li>• John Moons – Participating Land Owner</li> <li>• Marina Plain</li> <li>• Jamie Tabor – Participating Land Owner</li> <li>• Eddy Van Engelen – Participating Land Owner</li> </ul> <p><b>NextEra</b></p> <ul style="list-style-type: none"> <li>• Ben Greenhouse – Director of Development</li> <li>• Cassandra Bowers – Project Manager</li> <li>• Catherine Mitchell – Business Management</li> <li>• Doug McIntosh – Operations Manager</li> <li>• Peter Miller – Operations Manager</li> <li>• Julie Rice – Director of Business Management</li> </ul> <p><b>Borea Construction</b></p> <ul style="list-style-type: none"> <li>• Heidi Lamarche – Construction Project Manager</li> </ul> <p><b>NRSI</b></p> <ul style="list-style-type: none"> <li>• Christy Humphrey – Terrestrial and Wetland Biologist</li> </ul> <p>Chair explained that a microphone was available if needed throughout the evening and noted that the Meeting Minutes will be circulated to the Committee within two weeks of the meeting for Committee review after which they will be posted publically.</p>	
<p><b>2. Review of Meeting Agenda, Introductions, CLC Meeting #1 Review</b></p> <p>Chair then gave a brief overview of the Meeting Agenda (slide 2).</p> <p><b>Agenda</b></p> <ol style="list-style-type: none"> <li>1. Introductions</li> <li>2. Recap of CLC Meeting # 1</li> </ol>	

- Purpose of the CLC
  - Construction Overview and Update
  - Public Attendance and Depositions
  - Requests for Additional Information
  - Minutes (Parking Lot Items)
3. Activities and Questions/Comments Raised Since the First CLC Meeting
  4. Update on Construction and Reclamation Efforts
  5. Operations and Maintenance - Introduction of Operations Team
  6. Preliminary Discussion of Monitoring and Mitigation Measures (to be further discussed at CLC Meeting No. 3)
  7. Depositions, if any requests received – none received
  8. Tentative Items for Discussion at Future CLC Meetings

Chair then provided an overview of the Jericho Wind Energy Centre (slide 4).

#### **Overview of the Jericho Wind Energy Centre**

- The Class 4 Wind Facility is operating in the Municipality of Lambton Shores and the Township of Warwick, in Lambton County, Ontario and in Middlesex County.
- The ninety-two turbines, each with 80 metre towers and three blades up to 50.5 metres in length, have a generating capacity of 149-megawatts, capable of generating electricity to power nearly 37,500 homes.
- The project consists of wind turbines, overhead and underground electrical lines, two met towers, electrical substation, transformer substation (to connect to the Hydro One transmission system) and required roads.
- The Facility, with the exception of some electrical lines, was built on privately owned land, which remains in agricultural use.

#### **You said the turbines have a generating capacity of 149-megawatts (MW). What is the normal capacity of the turbines?**

Ben G. (BG) – 149 MW is the nameplate capacity. In this area we would expect an annual average of 35-40% of the 149 MW to be produced.

#### **Why is that?**

BG – The nameplate capacity is the capacity when the turbines are running full speed with the maximum capacity possible. Sometimes there is no wind, sometimes there is lots of wind so over the course of a year we would expect the turbines to put out about 40% of the maximum capacity.

Chair continued to outline the meeting summary from the 1<sup>st</sup> CLC Meeting (slides 5 and 6).

#### **Meeting Summary for our 1<sup>st</sup> CLC Meeting:**

- Draft minutes were prepared by AECOM and circulated to the CLC on **October 15, 2014**
- Members were asked to advise AECOM of any errors, omissions or changes by **October 29, 2014**

<ul style="list-style-type: none"> <li>• All recommended comments/changes were incorporated and the minutes were posted on NextEra’s publically accessible website <b>October 31, 2014</b></li> <li>• CLC members were also emailed the final minutes on <b>October 31, 2014</b></li> </ul> <p><b>Opportunity for Improvement:</b> We’d like to understand your expectation for when you should receive the summary of the meeting; is two weeks after we meet acceptable?</p> <p>Committee agreed that a two week timeline is acceptable.</p> <p><b>Recap of CLC Meeting #1 – Local Labour</b> (Note: Figures below have been updated since CLC meeting #2 on June 18<sup>th</sup> 2015.)</p> <p><b>Construction Stats</b></p> <ul style="list-style-type: none"> <li>• General Contractor is Borea Construction Canada</li> <li>• Many Southwestern Ontario Companies used (subcontractors and suppliers) on the Jericho project.</li> <li>• For the Jericho project, contracts exceeded \$100 M with subcontractors and suppliers in the southwestern Ontario region.</li> <li>• Total number of people working on site throughout construction of the Jericho project including subcontractors was approximately 1100.</li> <li>• Indirect economic benefits have not been measured, but local hotels, restaurants, home improvement stores, gas stations, machine shops, pubs and grocery stores have seen an increase in business since the start of the project.</li> </ul> <p><b>Projected Economic Impact</b></p> <table> <tr> <td>Construction Jobs:</td> <td>1100</td> </tr> <tr> <td>Full Time Operations Jobs:</td> <td>8 - 10</td> </tr> <tr> <td>Capital Expenditures:</td> <td>Over \$400 Million*</td> </tr> <tr> <td>Property Taxes:</td> <td>About \$20 Million*</td> </tr> <tr> <td>Landowner Payments:</td> <td>About \$35 Million*</td> </tr> </table> <p>*Estimated over first 20 years of the project.</p>	Construction Jobs:	1100	Full Time Operations Jobs:	8 - 10	Capital Expenditures:	Over \$400 Million*	Property Taxes:	About \$20 Million*	Landowner Payments:	About \$35 Million*	
Construction Jobs:	1100										
Full Time Operations Jobs:	8 - 10										
Capital Expenditures:	Over \$400 Million*										
Property Taxes:	About \$20 Million*										
Landowner Payments:	About \$35 Million*										
<p><b>3. Activities and Questions/Comments Raise Since the First CLC Meeting (slide 7)</b></p> <p>Chair noted that no questions or comments were received since the first CLC Meeting but there were outstanding items in the parking lot that will be addressed now.</p> <p><b>Parking Lot Item #1</b></p> <p>Provide additional information regarding the sourcing of turbine components and materials.</p> <p>BG – The turbines are manufactured by GE and GE has manufacturing facilities all</p>											

over the world so usually we (NextEra) do not specify where the turbines need come from. This project however required certain parts to be made in Ontario. The steel made for the towers is from Ontario and some of the towers themselves were likely made in Ontario, however, this was not a requirement and as a result they could have been made in the USA. The electronics in the machine were also made in Ontario with the remainder coming from GE’s general supply chain, as a note, NextEra pays a flat fee for products to be shipped here. The blades likely came from the USA and the nacelles that house the generator at the top came from Florida.

**My friend said he noticed that most electronic components of the machines were stamped China and Taiwan.**

BG – In order to meet the requirements, certain electronic parts are required to be from Ontario. I can tell you that the main electronics are made in Ontario but it’s possible that some boards are from Taiwan or other locations.

**I was surprised to see how much foreign content was part of the machines.**

BG – The electronics may have been assembled with chips or other components from China but the electronics were manufactured in Ontario.

**There is a huge difference between manufacturing in Ontario and being wound in Ontario. I would like as specific an answer as possible.**

Doug M. (DM) – We (NextEra) can look into details if you would like specific content.

BG – Some of the towers would have been made here (Ontario). The steel is from Ontario, the towers are a mix from Ontario and the USA. The nacelles were made in Florida.

**Are we talking about self-standing units that are completely independent or are we talking about another kind of unit? What is expected with regard to management and operating in the future? When power is down, how long does the farm have to wait for the cell tower then to be reactivated? How independent or interdependent is the cell tower?**

BG – To be clear, it sounds like you are drawing a comparison between how cell towers would work and how NextEra towers would work. Is this correct?

**Rumour has it that cell towers are built to run the wind turbines.**

DM – All of NextEra’s towers work on a fiber optics based system. The power runs along the Jericho collection line, down Nairn Road, to NextEra’s operations building. In the case of a tornado these turbines have project team members that are constantly monitoring on-site as well as at our headquarters in Florida. Many different factors are constantly being monitored (e.g., wind speed, weather conditions, etc.) 24 hours a day, seven days a week.

**Where is the meteorological tower located?**

Peter M. (PM) – One in the north and one in the south of the project layout.

BG – Every turbine has a wind speed monitor on the top of it.

**NextEra to look into specific details regarding where turbine components were made.**

Chair noted that some of the questions will also be addressed in the following slide so as we move along all questions should be addressed.

**Parking Lot Item #2**

Provide an update regarding the Community Vibrancy Fund (CVF).

Catherine M. (CM) – For the Jericho project NextEra has two CVF agreements in place, one each with the municipalities of Warwick and Lambton Shores where the turbines are installed. Warwick has nine turbines installed in the area and Lambton Shores has 83 turbines installed. The CVF annual contribution amount is based on the number of megawatts (MW) installed in each municipality. Lambton Shores is paid \$3,500.00 per MW in their area and Warwick is paid \$5,000.00 per installed MW, so that totals about \$550,000.00 that NextEra is contributing to the communities. NextEra’s agreements with the municipalities outline possible ways for the municipalities to use the funding such as sustainability and renewable initiatives, recreational facilities, improvements for EMS First Responder services or infrastructure and so on. It is up to the municipalities to decide how they use the funding. It is a 20 year agreement with annual payments / contributions.

**When are the payments being made?**

CM – The first payment to Warwick was made in March. NextEra just signed the agreement with Lambton Shores so they will be getting a payment soon. The first payment is prorated based on a timeline of when the project went online, which was November, through the end of 2014. Going forward it will be the same annual amount each year.

**What did you say the payment amount was?**

CM – It’s about \$550,000.00 in total. This equals about \$80,000.00 in Warwick and \$470,000.00 in Lambton Shores.

**Are there any restrictions on the funding?**

CM – NextEra gives general guidelines on how the funding can be used but for the most part it’s up to the municipalities to decide for themselves. There are a lot of different options. For example, one municipality chose to purchase a fire truck; some have decided to distribute the funding to local charitable organizations.

**How are charitable contributions determined by the municipality?**

CM – It is specific to each municipality. NextEra also evaluates charitable contribution requests so if you’re interested in learning more you can contact us (NextEra).

**Can we, as citizens, put forth a proposal on how this money is spent? In this country, many of our young people feel like they fail before they get to high school because of their economic status. I propose funding for education for young people so that they have hope and can contribute to society. How can I do this?**

CM – I would suggest contacting your municipal staff to give your suggestions or reach out to NextEra with your recommendation and we can bring it to your municipality’s attention.

**Comment - It is up to us as taxpayers to lobby and make sure the money is spent correctly and call out the council members if it is not. It has to be a whole community effort. Our elected officials need to be transparent about where the money is going.**

**Comment (John Moons) - The purpose of the money needs to be very clear. I think if anyone, such as NextEra, is speaking about providing funds there should be limits on how the communities or municipalities spend that money.**

**Comment (Eddy van Engelen) - NextEra has already specified where they would prefer the money to be spent. We live in a democracy; therefore, we have the opportunity to decide together or vote in or vote out our members of council.**

Chair reminded the committee members and members of the public to respect the Committee charter and show mutual respect for each other. First and foremost, this meeting is held for the committee members and they will be given priority for asking questions or providing comments. The members of the public can ask questions / comments but will need to defer to the CLC members.

**Catie, you have specified what this CVF money could be used for, correct?**

CM –NextEra provides guidelines in the funding agreement. Most likely, the money will be used for sustainable initiatives or things to improve the community that tax money is not normally used for.

BG – The point is to do with the money what communities or municipalities usually can't do with tax money. Whether some municipalities decide to set up a committee that gives recommendations is up to them. NextEra is not in a position to dictate to a community what they should do with the money.

**Comment - I do not think the so-called democratic process is sufficient for our future. NextEra needs to think about the money they are giving these communities and the objectives of the elected officials. The one objective we should have is to step away from the use of fossil fuels or we will all have serious problems.**

Chair thanked the member of the public for his comment.

**Mr. Moons and Catie Mitchell have made comments on opposite ends of the spectrum. Catie, did you not say a municipality used the money to buy a fire truck?**

CM – Yes, that particular municipality decided to use their money to purchase the fire truck. This was something they were unable to do with their regular budget and council decided that purchasing a fire truck was the best decision.

BG – We have heard concern from other communities whether council members are the best representatives to decide where the CVF money goes. It's difficult for us (NextEra) to decide who chooses where the money goes. We at NextEra do not feel like we are in the right position to make those decisions for the communities so the best option we have are the elected representatives of the municipality.

<p><b>Comment – It is a democratic society and we have voted in this council and they are very capable of making these types of decisions. It’s not NextEra’s job to decide where the funds go, it is council’s job.</b></p> <p>Chair requested to end the conversation in lieu of keeping on track with the meeting Agenda. Chair noted there will be time after the meeting for people to have further discussion on this and other topics.</p>	
<p><b>4. Update on Construction and Reclamation Efforts</b></p> <p>Chair invited Heidi Lamarche (HL) to discuss the status of post construction activities (slide 8).</p> <p><b>Construction Clean up, Modifications and Road Repairs: January 2015 onward</b></p> <ul style="list-style-type: none"> <li>• Waste and debris generated during construction activities to be collected and disposed of at an approved facility.</li> <li>• All equipment and vehicles have been removed from the construction area.</li> <li>• Reasonable efforts made to minimize waste generated and to recycle materials, including returning packaging material to suppliers for reuse/recycling.</li> <li>• During construction: Use of industry best practices for spill prevention was utilized. In unlikely event of a minor spill, clean-up will be immediate and any impacted soils will be removed from the site and disposed of at an approved facility.</li> </ul> <p><b>Reclamation: (January to Summer 2015)</b></p> <ul style="list-style-type: none"> <li>• Stripped soil has been replaced and re-contoured in the construction areas and disturbed areas reseeded during appropriate conditions for germination (as seasonality allows).</li> </ul> <p><b>You said you are drawing the roads in and making them smaller, is this true?</b>  HL – All roads that we built for construction are being trimmed down to 16 feet wide from the entrance to the edge of the tower and that is the permanent width.</p> <p><b>Comment - Are drainage problems being worked on? Because it is very slow. I’m concerned about the drainage work because we’re not getting the results we need. I’m getting the gist from local contractors that NextEra isn’t paying them enough. If we don’t have professional contractors working on these problems we’re going to have a huge mess and right now we have a huge mess. I can’t fix those tiles; we need professionals to fix the major issues out there. It’s a big problem that has to be fixed. I do think the reclamation process is going well around the towers, it hasn’t been a problem.</b></p> <p><b>To expand on that concern, I think there should be a greater dialogue between the contractors, NextEra and the farmers. The farmers know exactly what has to be done.</b></p>	

DM – We (NextEra) hear you loud and clear. The current process is not healthy so we’re looking into many different options, one of them being Peter Miller (the site manager) having a lot more autonomy to work with the farmers to get the repairs done.

**Could we get Peter Miller more involved so that things are done properly the first time?**

DM – From an operations stand point, we are here for the long term. We want him to have more authority to make repairs happen.

BG – Simple fixes which don’t cost a lot are becoming delayed because of internal discussions at NextEra and we apologize for that.

**When you don’t have the professional people there, the job isn’t getting done properly the first time and will need to be redone.**

BG – NextEra is focusing on that problem now. I’d like to hear more after the meeting about the commentary from the contractors. We’ve never heard about complaints of rates from the contractors before.

**Discussions with the farmers have never happened. There’s crop loss over the last two years now. This has to be taken care of now and the job has to be done right.**

DM – What we have done in the past did not meet the expectations of the land owners or of NextEra and we’re working to fix that.

**Yesterday there was an incident at the large embankment that was created by the project. This is a liability to me. Who is going to cover my liability when someone gets hurt? I’d like the embankment to be brought down so it’s flat like it was before the project. If my grandchild gets hurt on the embankment because of what NextEra has built I will not let it go.**

BG – NextEra does not want people to get hurt. We want to fix the problem. If someone does get hurt, our lease makes sure the landowner is not at all responsible or liable. NextEra would work with the land owner to hire counsel and make sure the landowner is not held accountable.

**The last 2 years have been very wet. As a consumer, if we get a lot of water we get a lot of problems and it’s going to cost a lot in terms of our environment over the coming years. The issues are interconnected. It’s not just the producers, it’s also the consumers. The number of people who are against wind energy are far larger than the number of farmers who are benefiting financially from your project. Are you in the energy business or are you only here to make a lot of money? We want to get people here outside of the farming community to discuss the issues.**

Chair thanked the member of the public for his comment.

**Your (NextEra) answers are good but it’s only spoken word. Can you give us answers in writing so we can have some clarity? It goes a long way in the resolution process.**

DM – You’re absolutely right, but right now the only ability we have is in this forum.

<p>At CLC meetings we try to discuss the problems and attempt to eliminate potential hazards. Risk mitigation is the name of the game. The operations department is currently transitioning into taking a bigger role. Until now, everything had to go through the construction department first.</p> <p>Chair requested to continue to the next topic and introduced Peter M. to discuss Operations and Maintenance (slides 9-12).</p>	
<p><b>5. Operations and Maintenance – Introductions of Operations Team</b></p> <p><b>Update on Project Commissioning and Operations</b></p> <p><b>Wind Turbine Commissioning: November 22, 2014</b>          Requires Collection System, Substation, and Turbines to Start</p> <ul style="list-style-type: none"> <li>• Turbine commissioning took place in sequential order prior to the planned Commercial Operation of the Project.</li> <li>• Portable generators were used to provide backfeed power for commissioning prior to being connected to the power grid.</li> <li>• Commissioning included testing and inspection of electrical, mechanical, and communications operability.</li> <li>• A detailed set of operating instructions were followed in order to connect into the electrical grid.</li> </ul> <p>PM – If anyone is interested in stopping by our (NextEra) operations office please feel free to do so. We would love to show you around and explain the operations processes.</p> <p><b>Operations</b></p> <p><b>System Maintenance:</b></p> <ul style="list-style-type: none"> <li>• GE 1.62 MW wind turbines are automated and have few maintenance requirements.</li> <li>• Initial maintenance of the turbines occurs approximately 500 hours after initial commissioning and routine preventative maintenance activities are scheduled as required.</li> <li>• Maintenance activities include changing of oil and gas filters, cleaning of gear boxes, replacement of worn parts and on-going inspections.</li> <li>• All maintenance activities adhere to the same waste disposal and spill prevention industry best practices undertaken during construction.</li> </ul> <p><b>Unplanned Turbine Maintenance:</b></p> <ul style="list-style-type: none"> <li>• Modern turbines are very reliable and designed to operate for approximately 25 years.</li> <li>• Minor component failure may occur (i.e. electronic cards, switches, fans or sensors) and can take a turbine out of service until the faulty component is replaced.</li> <li>• Replacement of a major component (i.e. gearbox or rotor) is atypical.</li> </ul>	

NextEra would work with the County and the landowner to coordinate the delivery of any large equipment and repairs (if required).

**Operations – Complaint Resolution:**

- NextEra acknowledges that some members of the community may have concerns regarding construction activities and long-term wind farm operations.
- To resolve disputes in a collaborative manner, NextEra follows its complaints resolution process.
- Should any complaints arise throughout the course of the construction, operation and decommissioning phases, a NextEra representative will contact the complainant to understand and seek a resolution.
- NextEra will notify the local MOECC (Ministry of Environment and Climate Change) district office of the complaint within 2 business days of receipt of the complaint (1 business day if the complaint is related to Ground Water).
- The MOECC notification will include:
  - Description of the nature of the complaint;
  - Wind direction at the time of the incident related to the complaint;
  - Time and date of the incident related to the complaint; and
  - A description of the measures taken to address the cause of the incident and to prevent a similar occurrence in the future

**Operations – Complaint Resolution, cont’d:**

- NextEra will provide the local MOECC district office with a written record of the complaint within 8 business days of the complaint.
- As soon as possible, no later than three (3) days call complainant to follow up.
- Prepare letter to respond to customer/citizen and mail within 5 days of receiving complaint.
- Information requests and complaints about the local operations and maintenance can be addressed to:

NextEra Energy Canada, ULC  
390 Bay Street, Suite 1720  
Toronto, ON M5H 2Y2  
Toll Free Phone: 1-877-463-4963  
Main Office Line: 416-364-9714  
Email: [Jericho.wind@nexteraenergy.com](mailto:Jericho.wind@nexteraenergy.com)  
Website: [www.NextEraEnergyCanada.com](http://www.NextEraEnergyCanada.com)

**I have a re-tiled farm right next to a collection line. I plan on hiring a contractor myself. How much time would I typically need to notify or put in a request to NextEra regarding hiring a contractor to fix the work on my farm?**

PM – Legally everyone is required to notify Ontario one call before they dig, so that if the first step in the process. After that it typically takes about a week to get to the request from the day you submit it to NextEra. If you find the process isn’t moving fast enough, please feel free to give me a call to discuss the issues.

<p>DM – With all that has been going on, we (NextEra) knew there would be a lot of work during the post-construction phase. We have a dedicated crew that will come out to stake out and locate tiling issues as quickly as they can.</p> <p><b>I’d like to know if anyone at the table knows who Jim Robo is?</b> BG – Yes. Jim Robo is the CEO of NextEra.</p> <p><b>Are you a Florida, USA brand? Or are you a separate entity?</b> BG – NextEra Energy Resources Canada is the Canadian subsidiary of NextEra Energy Resources.</p> <p><b>Does Jim Robo know that you’re giving all this money to council without any restrictions? My suggestion is that you need a building such as a welcome centre and I’ve discussed this matter with Josie Bird. Your point of reference should be focused on how to make people like Wind Energy. We are focusing too much on farms right now. You need a building with the NextEra logo on it so the people become more familiar with it.</b> BG – Jim Robo is aware that we sign CVFs with communities. The reason we are discussing farms right now is because farms play a huge role in the post-construction activities. NextEra doesn’t participate in advertising just for the sake of advertising the company. If you’re discussing your suggestions and recommendations with Josie Bird then you are definitely talking to the right person.</p> <p><b>So you don’t care if people hate NextEra?</b></p> <p>Chair noted that this conversation can be continued after the meeting as it is getting off topic and also considering that amount of Agenda items still to be discussed.</p> <p>Chair asked Catie M. to discuss the monitoring and mitigation measures (slide 13).</p>	
<p><b>6. Preliminary Discussion of Monitoring and Mitigation Measures (slides 13-15)</b></p> <p><b>Environmental Effects Monitoring Plan:</b></p> <ul style="list-style-type: none"> <li>• In accordance with the requirements of Ontario Regulation (O.Reg.) 359/09, the Environmental Effects Monitoring Plan addresses various elements including, but not limited to, heritage and archaeological resources, natural heritage features and noise.</li> </ul> <p><b>Noise</b></p> <ul style="list-style-type: none"> <li>• The Provincial Environmental Protection Act (EPA) requires that noise emissions for any new projects must not have any adverse effects on the natural environment and not exceed 40dBA when wind speeds are of 6 metres/second and below. NOTE: the allowable noise levels increase during higher wind speeds.</li> <li>• Prior to construction, a Renewable Energy Approval (REA) was obtained with measures to be adhered to, i.e. noise modeling by independent consultants.</li> </ul>	

- Noise emissions will not likely change unless there is damage to the equipment (immediately recognized by the computer monitoring system and addressed by the operations team).
- Acoustic Emission and Immission testing will be conducted. Results will be reported to the MOECC.

CM – The testing has been underway since the project came online and the results will be reported to the MOECC within the next year.

Chair invited Christy H. (NRSI) to discuss monitoring and mitigation measures for species at risk (SAR) and bird and bat post-construction monitoring (slide 14).

**Species-At-Risk (SAR) Monitoring**

- Species at Risk Monitoring continues for the life of the project
- 2015 Species at Risk monitoring will begin May 1

**Bird and Bat Post-Construction Monitoring**

- Monitoring will be conducted in accordance with requirements of the REA and MNRF Guidelines
- Monitoring will begin May 1, 2015
- Turbine searches will occur twice weekly from May 1st through October 31st, and raptor surveys will continue weekly from November 1st through November 30th.
- Correction factors are applied in order to calculate overall estimated mortality rates across the project
- Annual report provided to MNRF by March 31 following each year of monitoring
- 3 years of monitoring are required

**Is the once a month monitoring being mandated?**

CH – Yes it is.

**In one month a lot of birds and bats could be killed.**

CH – The Ministry’s objective for monthly monitoring is specifically for raptors. We generally do find all or almost all mortalities. The monthly monitoring is not in place to determine the estimated mortality rate all species. The Ministry of Natural Resources and Forestry (MNRF) has a special interest in raptors and want to make sure there are no outstanding raptor mortalities that are not being picked up during the Bird and Bat Monitoring searches.

**Are you finding that a lot of birds are being killed due to the wind turbines?**

CH – I would not describe the number of bird mortalities as a lot. We do find mortalities of birds, bats and raptors in all wind projects but the levels vary.

**How are you going to adjust the monitoring of mortalities if there are more or less?**

CM – There are several different approaches NextEra could take that are outlined in our mitigation plans. For example, we can conduct habitat mapping, we can also shut

off the turbines if we know of certain times a year there are more birds, bats or raptors in that specific area.

**Birds vacate areas that are noisy and they need the lakeshore, parks and green areas that are adjacent to all the wind towers. You need an equivalent increase in habitat or else the bird species will be diminished over time.**

CM – In some areas where NextEra has done studies prior to construction and we know we’re having a negative impact on a habitat we compensate by building a larger habitat nearby where the species can vacate to.

**There has been a dramatic change in birds around the area due to these wind projects. The environment that the species once had is now gone. If the birds cannot communicate, they won’t habituate. You need to measure the quietness as well as the noise.**

BG – To be clear, these machines are not very loud. I’m not aware of bird species vacating the area because of the wind turbines.

**It’s a public relations issue. NextEra will have to explain to us how the birds are doing, how many kills are happening per turbine, identify the problems and how you’re dealing with them. If NextEra is transparent with the people, we will respect and agree with you.**

CM – NextEra’s intent is to share a summary of the mortality rates each year once the reports have been finalized and submitted to the Ministry of Environment and Climate Change (MOECC).

DM – The annual mortality rate for the project cannot be determined until a full season of monitoring has been completed. For example, if NextEra was to find seven bird mortalities in Jericho, there are a many variables that go into calculating the total representative amount for the project. Multipliers include searcher efficiency, scavenger rate, and so on.

**The information needs to be simplified so that everyone can understand.**

DM – May 1<sup>st</sup> to October 31<sup>st</sup> is the monitoring period. After the period is over, NextEra will have a more accurate number of what the mortality rates are like in the area.

**The monitoring process takes a year but if an issue is noticed within the first month, would NextEra take action as soon as possible?**

CM – There are reporting requirements for certain species. If NextEra finds a specific species at risk, we report it immediately and immediately implement proper mitigation. NextEra would never wait until the end of the year to take care of those issues.

Chair asked Christy H. to discuss Natural Heritage Monitoring and Mitigation (slide 15).

#### **Natural Heritage Monitoring**

- Post construction monitoring of certain wildlife habitats is required by the

<p>REA</p> <ul style="list-style-type: none"> <li>• Bat maternity colony habitat</li> <li>• Habitat monitoring will begin in 2015, in accordance with the requirements of the REA</li> <li>• 3 Years of habitat monitoring is required</li> <li>• Annual reports will be submitted to MNR each year</li> </ul> <p><b>Did you (NRSI) study the patterns in deer migration?</b></p> <p>CH – Part of the pre-construction studies would have looked into significant congregation of different species throughout the year within the project area. It is my understanding that there are no deer congregation areas identified within the Jericho Wind Energy Centre project area.</p> <p>BG – There have been studies done on other animals such as elk that show no impact to them regarding wind energy centres. NextEra is working with a First Nations community in Haldimand County to learn about potential impacts to deer. The study is not yet complete and we are not expecting any impacts, but the study was of interest to the First Nations communities so we are working with them to conduct the research.</p> <p>Chair asked if there are any other questions regarding the monitoring and mitigation processes. None received.</p>	
<p><b>7. Depositions, if any received</b></p> <p>Chair asked if the CLC members would be interested in conducting a tour of the site to learn more about the project before the next meeting.</p> <p>Three CLC members responded affirmatively.</p> <p>Chair asked if there is anything else committee members would like to see on the Agenda for the next meeting.</p> <p><b>We would like to hear the Emergency First Response Plan before the next CLC meeting.</b></p> <p>BG – We will follow up with you tonight regarding the Emergency First Response Plan so it can be addressed at the next meeting.</p>	<p><b>Scheduled Site Tour before next CLC meeting.</b></p> <p><b>NextEra to provide an Emergency Response Plan</b></p>
<p><b>8. Tentative Items for Discussion at Future CLC Meetings (slide 16)</b></p> <p><b>CLC Meeting #3</b></p> <ul style="list-style-type: none"> <li>• Post-Construction Activities (e.g., reclamation or required repairs)</li> <li>• Update on Operations and Maintenance activities</li> <li>• Monitoring and Mitigation Measures update</li> <li>• Provisions for Decommissioning</li> <li>• Other</li> </ul>	

<p><b>CLC Meeting #4</b></p> <ul style="list-style-type: none"> <li>• Update on Operations and Maintenance</li> <li>• Monitoring and Mitigation Measures</li> <li>• Other</li> </ul>	
<p><b>9. Contact Information and Meeting Wrap Up</b></p> <p>Chair clarified the deposition process for members of the committee and members of the public.</p> <p><b>Depositions from Members of the Public</b></p> <ul style="list-style-type: none"> <li>• The CLC meetings are open to the general public for observation.</li> <li>• Notices of upcoming meetings will be posted on NextEra’s website (<a href="http://www.NextEraEnergyCanada.com">www.NextEraEnergyCanada.com</a>). AECOM will also publish Notices in the local newspapers.</li> <li>• Brief depositions (up to 3 per meeting, at a maximum of 5 minutes each) may be made by members of the general public, providing the depositions pertain to items on the meeting agenda (i.e., the construction, installation, use, operation, maintenance and retirement of the Facility).</li> <li>• Depositions will be selected at the discretion of the CLC Facilitator and in consultation with the CLC members and NextEra.</li> <li>• To be considered for a public deposition, a request along with the written deposition must be submitted to AECOM at least one week in advance of the CLC meeting:        Email: <a href="mailto:avril.fisken@aecom.com">avril.fisken@aecom.com</a>        Fax: 519.763.1688        Mail: 55 Wyndham Street North, Suite 215, Guelph, ON, N1H 7T8</li> </ul> <p>Chair asked if there are any questions.</p> <p><b>Did anyone ever study the effectiveness of leaving the flashing lights on steadily instead of constant on/off flashing?</b></p> <p>DM – Right now, NextEra is limited by the Transport Canada requirements. We think there will be bigger and better options for the future and we are working toward that goal.</p> <p>Chair urged members to contact him or anyone in the NextEra team at any time to ensure all questions and comments can be addressed in a timely manner.</p> <p>Chair thanked members of the public and the CLC members for attending and then adjourned the meeting.</p>	



PARKING LOT

<b>Parking Lot Topic</b>	<b>Response / Action</b>
Where were all of the parts for the machines made? Committee would like specific details.	NextEra to look into specific details regarding where the parts were made and have updated information for next CLC meeting.
Site tour before or at the CLC next meeting.	AECOM to send out invitations to CLC members regarding a site tour taking place an hour before the 3 <sup>rd</sup> CLC meeting.
Emergency First Response Plan	NextEra to contact local fire department to put an emergency first response plan in place and provide to CLC members before the next meeting.