

**RENEWABLE ENERGY APPROVAL**NUMBER 0558-9GUJ8T  
Issue Date: July 24, 2014

Goshen Wind GP, ULC, as general partner for and on behalf of Goshen Wind, LP  
390 Bay Street, Suite 1720  
Toronto, Ontario M5H 2Y2

Project: Goshen Wind Energy Centre  
Location: Generally bounded by Klondyke Road to the west, Rogerville Road to the north, Parr Line to the east, and Mount Carmel Drive to the south, in Huron County. Transmission line extends eastward and is generally bounded by Parr Line to the west, Thames Road to the north, Perth 164 Road to the east, and Park Road to the south, in Huron County. Municipality of Bluewater, Municipality of South Huron, within Huron County

*You have applied in accordance with Section 47.4 of the Environmental Protection Act for approval to engage in a renewable energy project in respect of a Class 4 wind facility consisting of the following:*

- the construction, installation, operation, use and retiring of a Class 4 wind facility with a total name plate capacity of 102 megawatts.

*For the purpose of this renewable energy approval, the following definitions apply:*

1. "Acoustic Assessment Report" means the report included in the Application and entitled Goshen Wind Energy Centre - Revised Noise Assessment Report, dated July 2014, prepared by AECOM and signed by Alex Dundon P.Eng on July 23, 2014;

2. "Acoustic Audit - Emission" means an investigative procedure that is compliant with the IEC Standard 61400-11 and consisting of measurements and/or acoustic modelling of noise emissions produced by wind turbine generators, assessed to determine compliance with the manufacturer's noise (acoustic) equipment specifications and emission data of the wind turbine generators, included in the Acoustic Assessment Report;
3. "Acoustic Audit - Immission" means an investigative procedure consisting of measurements and/or acoustic modelling of all sources of noise emissions due to the operation of the Equipment, assessed to determine compliance with the Noise Performance Limits set out in this Approval;
4. "Acoustic Audit Report-Emission" means a report presenting the results of the Acoustic Audit - Emission;
5. "Acoustic Audit Report-Immission" means a report presenting the results of the Acoustic Audit - Immission;
6. "Acoustic Audit Report - Transformer Substation" means a report presenting the results of the Acoustic Audit - Transformer Substation.
7. "Acoustical Consultant" means a person currently active in the field of environmental acoustics and noise/vibration control, who is knowledgeable about Ministry noise guidelines and procedures and has a combination of formal university education, training and experience necessary to assess noise emissions from wind facilities;
8. "Act" means the *Environmental Protection Act*, R.S.O 1990, c.E.19, as amended;
9. "Adverse Effect" has the same meaning as in the Act;
10. "Application" means the application for a Renewable Energy Approval dated January 15, 2013, and signed by F. Allen Wiley, Goshen Wind, Inc., and all supporting documentation submitted with the application, including amended documentation submitted up to the date this Approval is issued, and as assigned by Goshen Wind, Inc. to Goshen Wind, LP on June 27, 2014;
11. "Approval" means this Renewable Energy Approval issued in accordance with Section 47.4 of the Act, including any schedules to it;
12. "A-weighting" means the frequency weighting characteristic as specified in the International Electrotechnical Commission (IEC) Standard 61672, and intended to approximate the relative sensitivity of the normal human ear to different frequencies (pitches) of sound. It is denoted as "A";
13. "A-weighted Sound Pressure Level" means the Sound Pressure Level modified by application of an A-weighting network. It is measured in decibels, A-weighted, and denoted "dBA";
14. "Class 1 Area" means an area with an acoustical environment typical of a major population centre, where the background sound level is dominated by the activities of people, usually road traffic, often referred to as "urban hum";

15. "Class 2 Area" means an area with an acoustical environment that has qualities representative of both Class 1 and Class 3 Areas:
  1. sound levels characteristic of Class 1 during daytime (07:00 to 19:00 or to 23:00 hours);
  2. low evening and night background sound level defined by natural environment and infrequent human activity starting as early as 19:00 hours (19:00 or 23:00 to 07:00 hours);
  3. no clearly audible sound from stationary sources other than from those under impact assessment.
16. "Class 3 Area" means a rural area with an acoustical environment that is dominated by natural sounds having little or no road traffic, such as the following:
  1. a small community with less than 1000 population;
  2. agricultural area;
  3. a rural recreational area such as a cottage or a resort area; or
  4. a wilderness area.
17. "Company" means Goshen Wind GP, ULC, as general partner for and on behalf of Goshen Wind, LP, a limited partnership formed under the laws of Ontario, and includes its successors and assignees;
18. "Compliance Protocol for Wind Turbine Noise" means the Ministry document entitled, Compliance Protocol for Wind Turbine Noise, Guideline for Acoustic Assessment and Measurement, PIBS# 8540e;
19. "Decibel" means a dimensionless measure of Sound Level or Sound Pressure Level, denoted as dB;
20. "Director" means a person appointed in writing by the Minister of the Environment pursuant to section 5 of the Act as a Director for the purposes of section 47.5 of the Act;
21. "District Manager" means the District Manager of the appropriate local district office of the Ministry where the Facility is geographically located;
22. "Equipment" means the 63 wind turbine generators and one (1) transformer substation, identified in this Approval and as further described in the Application, to the extent approved by this Approval;
23. "Equivalent Sound Level" is the value of the constant sound level which would result in exposure to the same total A-weighted energy as would the specified time-varying sound, if the constant sound level persisted over an equal time interval. It is denoted  $L_{eq}$  and is measured in dB A-weighting (dBA);
24. "Facility" means the renewable energy generation facility, including the Equipment, as described in this Approval and as further described in the Application, to the extent approved by this Approval;

25. "IEC Standard 61400-11" means the International Standard IEC Standard 61400-11, Wind turbine generator systems – Part 11: Acoustic noise measurement techniques, 2006;
26. "Independent Acoustical Consultant" means an Acoustical Consultant who is not representing the Company and was not involved in preparing the Acoustic Assessment Report. The Independent Acoustical Consultant shall not be retained by the Acoustical Consultant involved in the noise impact assessment;
27. "Ministry" means the ministry of the government of Ontario responsible for the Act and includes all officials, employees or other persons acting on its behalf;
28. "Noise Guidelines for Wind Farms" means the Ministry document entitled, "Noise Guidelines for Wind Farms - Interpretation for Applying MOE NPC Publications to Wind Power Generation Facilities", dated October 2008;
29. "Noise Receptor" has the same meaning as in O. Reg. 359/09;
30. "Publication NPC-233" means Ministry Publication NPC-233, "Information to be Submitted for Approval of Stationary Sources of Sound", October 1995;
31. "O. Reg. 359/09" means Ontario Regulation 359/09 "Renewable Energy Approvals under Part V.0.1 of the Act" made under the Act;
32. "Point of Reception" has the same meaning as in the Noise Guidelines for Wind Farms and is subject to the same qualifications described in that document;
33. "Sound Level" means the A-weighted Sound Pressure Level;
34. "Sound Level Limit" is the limiting value described in terms of the one hour A-weighted Equivalent Sound Level  $L_{eq}$ ;
35. "Sound Power Level" means ten times the logarithm to the base of 10 of the ratio of the sound power (Watts) of a noise source to standard reference power of  $10^{-12}$  Watts;
36. "Sound Pressure" means the instantaneous difference between the actual pressure and the average or barometric pressure at a given location. The unit of measurement is the micro pascal ( $\mu\text{Pa}$ );
37. "Sound Pressure Level" means twenty times the logarithm to the base 10 of the ratio of the effective pressure ( $\mu\text{Pa}$ ) of a sound to the reference pressure of  $20 \mu\text{Pa}$ ;
38. "UTM" means Universal Transverse Mercator coordinate system.

*You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:*

## **TERMS AND CONDITIONS**

### **A – GENERAL**

A1. The Company shall construct, install, use, operate, maintain and retire the Facility in accordance with the terms and conditions of this Approval and the Application and in accordance with the following schedules attached hereto:

Schedule A - Facility Description

Schedule B - Coordinates of the Equipment and Noise Specifications

A2. Where there is a conflict between a provision of this Approval and any document submitted by the Company, the conditions in this Approval shall take precedence. Where there is a conflict between one or more of the documents submitted by the Company, the document bearing the most recent date shall take precedence.

A3. The Company shall ensure a copy of this Approval is:

(1) accessible, at all times, by Company staff operating the Facility and;

(2) submitted to the clerk of each local municipality and upper-tier municipality in which the Facility is situated.

A4. If the Company has a publicly accessible website, the Company shall ensure that the Approval and the Application are posted on the Company's publicly accessible website within five (5) business days of receiving this Approval.

A5. The Company shall, at least six (6) months prior to the anticipated retirement date of the entire Facility, or part of the Facility, review its Decommissioning Plan Report to ensure that it is still accurate. If the Company determines that the Facility cannot be decommissioned in accordance with the Decommissioning Plan Report, the Company shall provide the Director and District Manager a written description of plans for the decommissioning of the Facility.

A6. The Facility shall be retired in accordance with the Decommissioning Plan Report and any directions provided by the Director or District Manager.

A7. The Company shall provide the District Manager and the Director at least ten (10) days written notice of the following:

(1) the commencement of any construction or installation activities at the project location; and

(2) the commencement of the operation of the Facility.

A8. As described in Schedule A of the Approval the Company shall:

- (1) not construct nor operate more than sixty-three (63) out of the sixty-six (66) wind turbine generators identified in the Schedule B of the Approval; and
- (2) construct and operate the GE 1.56 -100 wind turbine generator at the location with UTM coordinates for the wind turbine generator designated as source ID No. WTG 52.

**B – EXPIRY OF APPROVAL**

B1. Construction and installation of the Facility must be completed within three (3) years of the later of:

- (1) the date this Approval is issued; or
- (2) if there is a hearing or other litigation in respect of the issuance of this Approval, the date that this hearing or litigation is disposed of, including all appeals.

B2. This Approval ceases to apply in respect of any portion of the Facility not constructed nor installed before the later of the dates identified in Condition B1.

**C – NOISE PERFORMANCE LIMITS**

C1. The Company shall ensure that:

- (1) the Sound Levels from the Equipment, at the Points of Reception identified in the Acoustic Assessment Report, comply with the Sound Level Limits set in the Noise Guidelines for Wind Farms, as applicable, and specifically as stated in the table below:

<b>Wind Speed (m/s) at 10 m height</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
Sound Level Limits, dBA	40.0	40.0	40.0	43.0	45.0	49.0	51.0

- (2) the Equipment is constructed and installed at either of the following locations:
  - a) at the locations identified in Schedule B of this Approval; or
  - b) at a location that does not vary by more than 10 metres from the locations identified in Schedule B of this Approval and provided that,
    - i) the Equipment will comply with Condition C1 (1); and
    - ii) all setback prohibitions established under O. Reg. 359/09 are complied with.
- (3) the Equipment complies with the noise specifications set out in Schedule B of this Approval.

- C2. If the Company determines that some or all of the Equipment cannot be constructed in accordance with Condition C1 (2), prior to the construction and installation of the Equipment in question, the Company shall apply to the Director for an amendment to the terms and conditions of the Approval.
- C3. Within three (3) months of the completion of the construction of the Facility, the Company shall submit to the Director a written confirmation signed by an individual who has the authority to bind the Company that the UTM coordinates of the “as constructed” Equipment comply with the requirements of Condition C1 (2).

#### **D – CONFIRMATION OF VACANT LOT NOISE RECEPTORS**

- D1. The locations identified as vacant lot receptors in the Noise Impact Assessment Table of the Acoustic Assessment Report are specified as Noise Receptors for the purposes of subsection 54 (1.1) of O. Reg. 359/09 and subsection 35 (1.01) of O. Reg. 359/09”.

#### **E – ACOUSTIC AUDIT - IMMISSION**

- E1. The Company shall carry out an Acoustic Audit - Immission of the Sound Levels produced by the operation of the Equipment in accordance with the following:
- (1) the acoustic audit measurements shall be undertaken in accordance with Part D of the Compliance Protocol for Wind Turbine Noise;
  - (2) the acoustic audit measurements shall be performed by an Independent Acoustical Consultant on two (2) separate occasions at three (3) different Points of Reception;
  - (3) the Points of Reception shall be selected using the following criteria, subject to the constraints imposed by the location of the Points of Reception with respect to the location of the Equipment:
    - a) the selected Point(s) of Reception should represent the location of the greatest predicted noise impact, i.e., the highest predicted Sound Level(s); and
    - b) the selected Point(s) of Reception should be located in the direction of prevailing winds from the Facility;
- E2. The Company shall submit to the District Manager and the Director an Acoustic Audit Report-Immission, prepared by an Independent Acoustical Consultant, at the following points in time:
- (1) no later than twelve (12) months or such other date as agreed to in writing by the Director, after the commencement of the operation of the Facility for the first of the two (2) acoustic audit measurements at the three (3) Points of Reception; and
  - (2) no later than eighteen (18) months or such other date as agreed to in writing by the Director, after the commencement of the operation of the Facility for the second of the two (2) acoustic audit measurements at the three (3) Points of Reception.

E3. The Company shall carry out an Acoustic Audit - Transformer Substation and shall submit to the District Manager and the Director an Acoustic Audit Report – Transformer Substation prepared by an Independent Acoustical Consultant, in accordance with Ministry Publication NPC-233 no later than six (6) months after the commencement of the operation of the Facility.

#### **F – ACOUSTIC AUDIT- EMISSION**

F1. The Company shall carry out an Acoustic Audit - Emission of the acoustic emissions produced by the operation of the wind turbine generators in accordance with the following:

- (1) the acoustic emission measurements shall be undertaken in accordance with the IEC Standard 61400-11;
- (2) the acoustic emission measurements shall be performed by an Independent Acoustical Consultant; and
- (3) the acoustic emission measurements shall be performed on two (2) of the wind turbine generators; one (1) turbine rated at 1.6 megawatts generating output capacity and on one (1) of the wind turbine generators rated at 1.56 megawatts generating output capacity used in the Facility.

F2. The Company shall submit to the District Manager and the Director an Acoustic Audit Report-Emission, prepared in accordance with Section 9 of the CAN/CSA –IEC 61400-11-07 Standard by an Independent Acoustical Consultant, no later than twelve (12) months after the commencement of the operation of the Facility.

F3. In addition to the requirements described in Condition F2, the following items must be included in the compliance summary:

- (1) sound power levels (overall levels and frequency spectra in octave bands for each wind speed) of the wind turbine generators;
- (2) tonal audibility values (for each wind speed) of the wind turbine generators;
- (3) a statement that the wind turbine generators sound power levels, as per F3.1, do not exceed the maximum sound power levels specified in the Schedule B of the Approval; and
- (4) a statement that the wind turbine generators tonal audibility values, as per F3.2, comply with the maximum tonal audibility value noted in the Acoustic Assessment Report.



## **G – STORMWATER MANAGEMENT**

- G1. The Company shall employ best management practices for stormwater management and sediment and erosion control during construction, installation, use, operation, maintenance and retiring of the Facility, as described in the Application.
- G2. Within six (6) months of the completion of the construction of the Facility, the Company shall provide the District Manager with a written description of post-construction stormwater management conditions.

## **H – WATER TAKING ACTIVITIES**

- H1. At each turbine foundation construction site, the Company is authorized to take a maximum of 73,000 litres of water per day, for a maximum of five days, for the purpose of construction dewatering.
- H2. On each day water is taken at a turbine foundation construction site for the purpose of construction dewatering, the Company shall record the date, the volume of water taken on that date, and the rate at which it was taken. The daily volume of water taken shall be measured by a flow meter or estimated based on the rate and duration of pumping. The Company shall keep all records required by this condition current, and shall make these records available for review by the Ministry upon request.
- H3. Sedimentation and erosion control measures, such as straw bales, silt fence barriers, sand bags, and/or turbidity curtains, shall be installed at the site of all construction dewatering activities during the construction phase, and remain until the site has been stabilized. The sedimentation and erosion control measures shall be sufficient to control the volumes of surface runoff. Continuous care shall be taken to properly maintain the sedimentation and erosion control devices.
- H4. The Company shall ensure that any water discharged to the natural environment does not result in scouring, erosion or physical alteration of stream channels or banks and that there is no flooding in the receiving area or water body, downstream water bodies, ditches or properties caused or worsened by this discharge.

## **I – NATURAL HERITAGE**

### **General**

- II. The Company shall implement the Environmental Effects Monitoring Plan for the Goshen Wind Energy Centre, title *Natural Heritage Environmental Effects Monitoring Plan (EEMP) for the Goshen Wind Energy Centre* dated January 2014, and the commitments made in the following reports and included in the Application, and which the Company submitted to the Ministry of Natural Resources in order to comply with O. Reg. 359/09:
  - (1) *Natural Heritage Assessment and Environmental Impact Study Report* dated January 2013 prepared by AECOM

- (2) *Natural Heritage Assessment and Environmental Impact Study Report Addendum* dated January 2013 prepared by AECOM
- (3) *Natural Heritage Assessment and Environmental Impact Study Report Second Addendum* dated October 2013 prepared by AECOM
- (4) *Natural Heritage Assessment and Environmental Impact Study Report Third Addendum* dated November 2013 prepared by AECOM

12. If the Company determines that it must deviate from the Environmental Effects Monitoring Plan or the Environmental Impact Study or Addenda thereto, described in Condition I1, the Company shall contact the Director and the Ministry of Natural Resources, prior to making any changes to the Environmental Effects Monitoring Plan or the Environmental Impact Study or Addenda, and follow any directions provided.

#### **Post Construction Monitoring - Significant Wildlife Habitat**

13. The Company shall implement the post-construction monitoring described in the Environmental Effects Monitoring Plan, described in Condition I1, including the following:
- (1) Disturbance Monitoring for Bat Maternity Colony (BMC-189, BMC-229, BMC-249, BMC-326, BMC-342, BMC358, BMC-372, BMC-757).
  - (2) Disturbance Monitoring for Colonially-nesting Bird Breeding Habitat (Tree/Shrub) (CNB-01)
  - (3) Disturbance Monitoring for Amphibian Breeding Habitat (Woodland) (AWO-14, AWO-25, AWO-27, AWO-30, AWO-33, AWO-36)
  - (4) Disturbance Monitoring for Habitat for Bird Species of Conservation Concern (Red-headed Woodpecker) (SCB-03)

#### **Post Construction Monitoring - Birds and Bats**

14. The Company shall implement the post-construction bird and bat mortality monitoring described in the Environmental Effects Monitoring Plan, described in Condition I1, at a minimum of 19 constructed turbines. In addition:
- (1) The company shall conduct post construction mortality monitoring as described in the Environmental Effects Monitoring Plan described in I1 to include surveys in April for the habitat described in I3 (2).

## Thresholds and Mitigation

15. The Company shall contact the Director and the Ministry of Natural Resources if any of the following bird and bat mortality thresholds, as stated in the Environmental Effects Monitoring Plan for the Goshen Wind Energy Centre described in Condition I1, exceeds:
- (1) 10 bats per turbine per year;
  - (2) 14 birds per turbine per year at individual turbines or turbine groups;
  - (3) 0.2 raptors per turbine per year (all raptors) across the Facility;
  - (4) 0.1 raptors per turbine per year (provincially tracked raptors) across the Facility;
  - (5) 10 or more birds at any one turbine during a single monitoring survey; or
  - (6) 33 or more birds (including raptors) at multiple turbines during a single monitoring survey.
16. If the bat mortality threshold described in Condition I5(1) is exceeded, the Company shall:
- (1) implement operational mitigation measures consistent with those described in the Ministry of Natural Resources publication entitled "*Bats and Bat Habitats: Guidelines for Wind Power Projects*" dated July 2011, or in an amended version of the publication. Such measures shall include some or all of the following:
    - i. increase cut-in speed to 5.5 m/s and/or feather wind turbine blades when wind speeds are below 5.5 m/s between sunset and sunrise, from July 15 to September 30 at all turbines; or
  - (2) implement an additional three (3) years of effectiveness monitoring.
17. If the bat mortality threshold described in Condition I5(1) is exceeded after operational mitigation is implemented in accordance with Condition I6, the Company shall prepare and implement a contingency plan, in consultation with the Director and the Ministry of Natural Resources, to address mitigation actions which shall include additional mitigation and scoped monitoring requirements.
18. If any of the bird mortality thresholds described in Conditions I5(2), I5(3), or I5(4) are exceeded for turbines located within 120m of bird significant wildlife habitat, or if disturbance effects are realized at bird significant wildlife habitat within 120m of turbine(s) while monitoring is being implemented in accordance with Conditions I4, the Company shall implement immediate mitigation actions as described in the Environmental Impact Study and Environmental Effects Monitoring Plan described in Condition I1, and an additional three (3) years of effectiveness monitoring.

19. If any of the bird mortality thresholds described in Conditions I5(2), I5(3), or I5(4) are exceeded for turbines located within 120m of bird significant wildlife habitat, or if disturbance effects are realized at bird significant wildlife habitat within 120m of turbine(s) while monitoring is being implemented in accordance with Conditions I4, the Company shall implement immediate mitigation actions as described in the Environmental Impact Study and Environmental Effects Monitoring Plan described in Condition I1, and an additional three (3) years of effectiveness monitoring.
- I10. If either of the bird mortality thresholds described in Conditions I5(5) or I5(6) are exceeded, the Company shall prepare and implement a contingency plan to address immediate mitigation actions which shall include:
- (1) periodic shut-down of select turbines; or
  - (2) blade feathering at specific times of year; or
  - (3) an alternate plan agreed to between the Company, the Director and the Ministry of Natural Resources.
- I11. If any of the bird mortality thresholds described in Conditions I5(2), I5(3), or I5(4) are exceeded while monitoring is being implemented in accordance with Conditions I8 or I9, or if either of the bird mortality thresholds described in Conditions I5(5) or I5(6) are exceeded after mitigation is implemented in accordance with Condition I10, the Company shall contact the Director and the Ministry of Natural Resources and prepare and implement an appropriate response plan that shall include some or all of the following mitigation measures:
- (1) increased reporting frequency to identify potential threshold exceedance
  - (2) additional behavioural studies to determine factors affecting mortality rates;
  - (3) periodic shut-down of select turbines;
  - (4) blade feathering at specific times of year; or
  - (5) an alternate plan agreed to between the Company and the Ministry of Natural Resources.

### **Reporting and Review of Results**

- I12. The Company shall report, in writing, the results of the post-construction disturbance monitoring described in Conditions I3, to the Director and the Ministry of Natural Resources for three (3) years on an annual basis and within three (3) months of the end of each calendar year in which the monitoring took place.
- I13. The Company shall report, in writing, bird and bat mortality levels to the Director and the Ministry of Natural Resources for three (3) years on an annual basis and within three (3) months of the conclusion of the November mortality monitoring, with the exception of the following:

- (1) if either of the bird mortality thresholds described in Conditions I5(5) or I5(6) are exceeded, the Company shall report the mortality event to the Director and the Ministry of Natural Resources within 48 hours of observation;
- (2) for any and all mortality of species at risk (including a species listed on the Species at Risk in Ontario list as Extirpated, Endangered or Threatened under the provincial *Endangered Species Act, 2007*) that occurs, the Company shall report the mortality to the Ministry of Natural Resources within 24 hours of observation or the next business day;
- (3) if the bat mortality threshold described in Condition I5(1) is exceeded, the Company shall report mortality levels to the Director and the Ministry of Natural Resources for the additional three (3) years of monitoring described in Condition I6, on an annual basis and within three (3) months of the conclusion of the October mortality monitoring for each year;
- (4) if any of the bird mortality thresholds described in Conditions I5(2), I5(3), or I5(4) are exceeded for turbines located within 120m of bird significant wildlife habitat, the Company shall report mortality levels to the Director and the Ministry of Natural Resources for the additional three (3) years of effectiveness monitoring described in Condition I8, on an annual basis and within three (3) months of the conclusion of the November mortality monitoring for each year;
- (5) if any of the bird mortality thresholds described in Conditions I5(2), I5(3), or I5(4) are exceeded for turbines located outside 120 m of bird significant wildlife habitat, the Company shall report mortality levels to the Director and the Ministry of Natural Resources for the additional two (2) years of cause and effects monitoring described in Condition I9, on an annual basis and within three (3) months of the conclusion of the November mortality monitoring for each year; and
- (6) if the Company implements operational mitigation following cause and effects monitoring in accordance with Condition I9, the Company shall report mortality levels to the Director and the Ministry of Natural Resources for the three (3) years of subsequent effectiveness monitoring described in Condition I9, on an annual basis and within three (3) months of the conclusion of the November mortality monitoring for each year.

I14. The Company shall publish the following documents on the Company's website;

- (1) any modifications to the Environmental Effects Monitoring Plan as described in Condition I2 within ten (10) days of submitting the final plan to the Director and the Ministry of Natural Resources;
- (2) summaries of the results of the post-construction disturbance monitoring as described in Condition I12, prepared in consultation with the Director and the Ministry of Natural Resources, within ten (10) days of submitting the final report(s) to the Director and the Ministry of Natural Resources; and

- (3) summaries of the results of the annual bird and bat mortality monitoring as described in Condition I13 with the exception of subsection I13(2), prepared in consultation with the Director and the Ministry of Natural Resources, within ten (10) days of submitting the final report(s) to the Director and the Ministry of Natural Resources.

### **Additional Post Construction Requirements**

- I15. To compensate for the loss of significant woodlands as identified in the Environmental Effects Monitoring Plan, described in Condition II, a new area of woodland will be established that is equal to the area to be cleared (up to 2.6 ha), with the total area to be confirmed through a post-construction site inspection conducted by the Company. Details of the afforestation plan will be prepared in consultation with the Ministry of Natural Resources and shall be submitted to the Ministry of Natural Resources within the first year of operation of the project.

### **J – ENDANGERED SPECIES ACT REQUIREMENTS**

- J1. No construction or installation activities shall be commenced in areas at the project location that support habitat for Bobolink and Eastern Meadowlark until the Company has met all requirements under the Endangered Species Act, 2007.
- J2. The Company shall not commence operation of the Facility prior to receiving a written notice of approval from the Minister of Natural Resources related to any operations mitigation plans submitted by the Company pursuant to paragraph 1 of subsection 23.20(7) of O. Reg. 242/08.
- J3. The Company shall ensure that the mitigation measures contained in the approved mitigation plans described in Condition J2 are implemented during the operation of the Facility, subject to any agreement on alternative mitigation measures between the Company and the Ministry of Natural Resources.

### **K – SEWAGE WORKS OF THE TRANSFORMER SUBSTATION SPILL CONTAINMENT FACILITY**

- K1. The Company shall design and construct a transformer substation oil spill containment facility which meets the following requirements:
  - (1) the spill containment facility serving the transformer substation shall have a minimum volume equal to the volume of transformer oil and lubricants plus the volume equivalent to providing a minimum 24-hour duration, 50-year return storm capacity for the stormwater drainage area around the transformer under normal operating conditions. This containment area shall have:
    - (a) an impervious floor with walls usually of reinforced concrete or impervious plastic liners, sloped toward an outlet / oil control device, allowing for a freeboard of 0.25 metres terminating approximately 0.30 metres above grade to prevent external stormwater flows from entering the facility. The facility shall have a minimum of 300mm layer of crushed stoned (19mm to 38mm in diameter) within, all as needed in accordance to site specific conditions and final design parameters; or

- (b) a permeable floor with impervious plastic walls and around the transformer pad; equipped with subsurface drainage with a minimum 50mm diameter drain installed on a sand layer sloped toward an outlet for sample collection purposes; designed with an oil absorbent material on floor and walls, and allowing for a freeboard of 0.25 metres terminating approximately 0.30 metres above grade to prevent external stormwater flows from entering the facility. The facility's berm shall be designed as needed in accordance to site specific conditions and the facility shall have a minimum 300mm layer of crushed stoned (19mm to 38mm in diameter) on top of the system, as needed in accordance to site specific conditions and final design parameters.
- (2) the spill containment facility shall be equipped with an oil detection system; it also shall have a minimum of two (2) PVC pipes (or equivalent material) 50mm diameter to allow for visual inspection of water accumulation. One pipe has to be installed half way from the transformer pad to the vehicle access route;
- (3) the spill containment facility shall have appropriate sewage appurtenances as necessary, such as but not limited to: sump, oil/grit separator, pumpout manhole, level controllers, floating oil sensors, etc., that allows for batch discharges or direct discharges and for proper implementation of the monitoring program described under Condition K4; and
- (4) the Company shall have a qualified person on-site during construction to ensure that the system is installed in accordance with the approved design and specifications.

K2. The Company shall:

- (1) within six (6) months after the completion of the construction of the transformer substation spill containment facility, provide to the District Manager an engineering report and as-built design drawings of the sewage works for the spill containment facility and any stormwater management works required for it, signed and stamped by an independent Professional Engineer licensed in Ontario and competent in electrical and environmental engineering. The engineering report shall include the following:
  - (a) as-built drawings of the sewage works for the spill containment facility and any stormwater management works required for it;
  - (b) a written report signed by a qualified person confirming the following:
    - (i) on-site supervision during construction
    - (ii) in case of a permeable floor systems: type of oil absorbent material used (for mineral-based transformer oil or vegetable-based transformer oil, make and material's specifications)
    - (ii) use of stormwater best management practices applied to prevent external surface water runoff from entering the spill containment facility, and
    - (iv) confirm adequacy of the installation in accordance with specifications.

- (c) confirmation of the adequacy of the operating procedures and the emergency procedures manuals as it pertains to the installed sewage works.
  - (d) procedures to provide emergency response to the site in the form of pumping and clean-up equipment within 24 hours after an emergency has been identified. Such response shall be provided even under adverse weather conditions to prevent further danger of material loss to the environment.
- (2) as a minimum, the Company shall check the oil detection systems on a monthly basis and create a written record of the inspections;
  - (3) ensure that the effluent is essentially free of floating and settle-able solids and does not contain oil or any other substance in amounts sufficient to create a visible film, sheen or foam on the receiving waters;
  - (4) immediately identify and clean-up all losses of oil from the transformer;
  - (5) upon identification of oil in the spill containment facility, take immediate action to prevent the further occurrence of such loss;
  - (6) ensure that equipment and material for the containment, clean-up and disposal of oil and materials contaminated with oil are kept within easy access and in good repair for immediate use in the event of:
    - (a) loss of oil from the transformer,
    - (b) a spill within the meaning of Part X of the Act, or
    - (c) the identification of an abnormal amount of oil in the effluent.
  - (7) in the event of finding water accumulation in the PVC pipes at the time of inspection, as per Condition K4, the Company shall: (a) for impervious floors, inspect the sewage appurtenances that allow drainage of the concrete pit; or (b) for permeable systems, replace the oil absorbent material to ensure integrity of the system performance and design objectives.
  - (8) for permeable floor systems, the Company shall only use the type of oil specified in the design, i.e. mineral-based transformer oil or vegetable-based transformer oil. If a change is planned to modify the type of oil, the Company shall also change the type of the oil absorbent material and obtain approval from the Director to amend this Approval before any modification is implemented.

K3. The Company shall design, construct and operate the sewage works such that the concentration of the effluent parameter named in the table below does not exceed the maximum Concentration Objective shown for that parameter in the effluent, and shall comply with the following requirements:

<b>Effluent Parameters</b>	<b>Maximum Concentration Objective</b>
Oil and Grease	15mg/L



- (1) notify the District Manager as soon as reasonably possible of any exceedance of the maximum concentration objective set out in the table above;
- (2) take immediate action to identify the cause of the exceedance; and
- (3) take immediate action to prevent further exceedances.

K4. Upon commencement of the operation of the Facility, the Company shall establish and carry out the following monitoring program for the sewage works:

- (1) the Company shall collect and analyze the required set of samples at the sampling points listed in the table below in accordance with the measurement frequency and sample type specified for the effluent parameter, oil and grease, and create a written record of the monitoring:

<b>Effluent Parameters</b>	<b>Measurement Frequency and Sample Points</b>	<b>Sample Type</b>
Oil and Grease	Quarterly, i.e. four times over a year, relatively evenly spaced having a minimum two (2) of these samples taken within 48 hours after a 10mm rainfall event.	Grab

- (2) in the event of an exceedance of the maximum concentration objective set out in the table in Condition K3, the Company shall:
  - (a) increase the frequency of sampling to once per month, for each month that effluent discharge occurs, and
  - (b) provide the District Manager, on a monthly basis, with copies of the written record created for the monitoring until the District Manager provides written direction that monthly sampling and reporting is no longer required; and
- (3) if over a period of twenty-four (24) months of effluent monitoring under Condition K4, there are no exceedances of the maximum concentration set out in the table for Concentration Objective, the Company may reduce the measurement frequency of effluent monitoring to a frequency as the District Manager may specify in writing, provided that the new specified frequency is never less than annual.

K5. The Company shall comply with the following methods and protocols for any sampling, analysis and recording undertaken in accordance with Condition K4:

- (1) Ministry of the Environment publication "Protocol for the Sampling and Analysis of Industrial/ Municipal Wastewater", January 1999, as amended from time to time by more recently published editions, and
- (2) the publication "Standard Methods for the Examination of Water and Wastewater", 21st edition, 2005, as amended from time to time by more recently published editions.

## **L – TRAFFIC MANAGEMENT PLANNING**

- L1. Within three (3) months of receiving this Approval, the Company shall prepare a Traffic Management Plan and provide it to the Municipality of Bluewater, Municipality of South Huron, and Huron County.
- L2. Within three (3) months of having provided the Traffic Management Plan to the Municipality of Bluewater, Municipality of South Huron, and Huron County, the Company shall make reasonable efforts to enter into a Road Users Agreement with the Municipality of Bluewater, Municipality of South Huron, and Huron County.
- L3. If a Road Users Agreement has not been signed with the Municipality of Bluewater, Municipality of South Huron, and Huron County within three (3) months of having provided the Traffic Management Plan to the Municipality of Bluewater, Municipality of South Huron, and Huron County, the Company shall provide a written explanation to the Director as to why this has not occurred.

## **M – ENVIRONMENT CANADA**

- M1. Prior to operating (turbine blade movement that is feathered in accordance with the manufacturer's specifications is allowed) any of the wind turbines at the Facility, the Company shall, in collaboration with Environment Canada, develop the following:
  - (1) an Exceptional Weather Event Protocol that ensures that the Exeter Radar Station (Weather Radar) continues to provide accurate and reliable forecasts and weather warnings for high risk weather events;
  - (2) a Follow-up Plan; and
  - (3) an Adaptive Management Strategy.
- M2. Prior to operating (turbine blade movement that is feathered in accordance with the manufacturer's specifications is allowed) any of the wind turbines at the Facility, the Company shall enter into and fulfill an Agreement Regarding the Implementation of the Follow-up Plan, the Adaptive Management Strategy and the Exceptional Weather Event Protocol (Agreement) with Environment Canada that will set out the details of the commitments and timelines required for the Exceptional Weather Event Protocol, Follow-up Plan, and Adaptive Management Strategy. The Agreement shall include specifics of the financial assurance to be provided by the Company to ensure the implementation of the agreement.
- M3. The day the first wind turbine is operating (turbine blade movement that is feathered in accordance with the manufacturer's specifications is allowed) at the Facility, the Company shall begin implementing its obligations under the Exceptional Weather Event Protocol and Follow-up Plan described in Condition M1.

- M4. As part of the Follow-Up Plan, the Company shall, in collaboration with Environment Canada:
- (1) develop the measureable objectives and decision making criteria for defining the success of the plan;
  - (2) provide for the development, and subsequently the implementation, of the data interpolation mitigation measure agreed to by the Company and Environment Canada;
  - (3) verify the accuracy of the predicted adverse impacts to the Weather Radar resulting from the commercial operation of the Facility;
  - (4) assess the effectiveness of the data interpolation measure(s) to mitigate the predicted adverse impacts during the commercial operation of the Facility; and
  - (5) monitor the effectiveness of the Weather Radar in order to determine whether any additional mitigation measures are necessary.
- M5. During the implementation of the Follow-Up Plan, should it be determined based on the Follow-Up Plan that the data interpolation mitigation measure(s) do not adequately mitigate the adverse impacts of the Facility so that the Weather Radar can continue to provide accurate and reliable forecasts and weather warnings in accordance with Environment Canada's mandate, the Company shall, in collaboration with Environment Canada, implement the Adaptive Management Strategy, which shall include the following:
- (1) the design and implementation of additional mitigation measures that are reasonably necessary to mitigate any identified adverse impacts to the Weather Radar; and
  - (2) the monitoring and assessment of the effectiveness of these additional mitigation measures.

## **N – ABORIGINAL CONSULTATION**

- N1. During the construction, installation, operation, use and retiring of the Facility, the Company shall:
- (1) create and maintain written records of any communications with Aboriginal communities; and
  - (2) make the written records available for review by the Ministry upon request.
- N2. The Company shall provide the following to interested Aboriginal communities:
- (1) updated project information, including the results of monitoring activities undertaken and copies of additional archaeological assessment reports that may be prepared; and
  - (2) updates on key steps in the construction, installation, operation, use and retirement phases of the Facility, including notice of the commencement of construction activities at the project location.

- N3. If an Aboriginal community requests a meeting to obtain information relating to the construction, installation, operation, use and retiring of the Facility, the Company shall make reasonable efforts to arrange and participate in such a meeting.
- N4. If any archaeological resources of Aboriginal origin are found during the construction of the Facility, the Company shall:
- (1) notify any Aboriginal community considered likely to be interested or which has expressed an interest in such finds; and,
  - (2) if a meeting is requested by an Aboriginal community to discuss the archaeological find(s), make reasonable efforts to arrange and participate in such a meeting.

### **O – ARCHAEOLOGICAL RESOURCES**

- O1. The Company shall implement all of the recommendations, if any, for further archaeological fieldwork and for the protection of archaeological sites found in the consultant archaeologist's report included in the Application, and which the Company submitted to the Ministry of Tourism, Culture and Sport in order to comply with O. Reg. 359/09.
- O2. Should any previously undocumented archaeological resources be discovered, the Company shall:
- (1) cease all alteration of the area in which the resources were discovered immediately;
  - (2) engage a consultant archaeologist to carry out the archaeological fieldwork necessary to further assess the area and to either protect and avoid or excavate any sites in the area in accordance with the *Ontario Heritage Act*, the regulations under that act and the Ministry of Tourism, Culture and Sport's *Standards and Guidelines for Consultant Archaeologists*; and
  - (3) notify the Director as soon as reasonably possible.

### **P – COMMUNITY LIAISON COMMITTEE**

- P1. Within three (3) months of receiving this Approval, the Company shall make reasonable efforts to establish a Community Liaison Committee. The Community Liaison Committee shall be a forum to exchange ideas and share concerns with interested residents and members of the public. The Community Liaison Committee shall be established by:
- (1) publishing a notice in a newspaper with general circulation in each local municipality in which the project location is situated; and
  - (2) posting a notice on the Company's publicly accessible website, if the Company has a website;

to notify members of the public about the proposal for a Community Liaison Committee and invite residents living within a one (1) kilometre radius of the Facility that may have an interest in the Facility to participate on the Community Liaison Committee.

- P2. The Company may invite other members of stakeholders to participate in the Community Liaison Committee, including, but not limited to, local municipalities, local conservation authorities, Aboriginal communities, federal or provincial agencies, and local community groups.
- P3. The Community Liaison Committee shall consist of at least one Company representative who shall attend all meetings.
- P4. The purpose of the Community Liaison Committee shall be to:
- (1) act as a liaison facilitating two way communications between the Company and members of the public with respect to issues relating to the construction, installation, use, operation, maintenance and retirement of the Facility;
  - (2) provide a forum for the Company to provide regular updates on, and to discuss issues or concerns relating to, the construction, installation, use, operation, maintenance and retirement of the Facility with members of the public; and
  - (3) ensure that any issues or concerns resulting from the construction, installation, use, operation, maintenance and retirement of the Facility are discussed and communicated to the Company.
- P5. The Community Liaison Committee shall be deemed to be established on the day the Director is provided with written notice from the Company that representative Community Liaison Committee members have been chosen and a date for a first Community Liaison Committee meeting has been set.
- P6. If a Community Liaison Committee has not been established within three (3) months of receiving this Approval, the Company shall provide a written explanation to the Director as to why this has not occurred.
- P7. The Company shall ensure that the Community Liaison Committee operates for a minimum period of two (2) years from the day it is established. During this two (2) year period, the Company shall ensure that the Community Liaison Committee meets a minimum of two (2) times per year. At the end of this two (2) year period, the Company shall contact the Director to discuss the continued operation of the Community Liaison Committee.
- P8. The Company shall ensure that all Community Liaison Committee meetings are open to the general public.
- P9. The Company shall provide administrative support for the Community Liaison Committee including, at a minimum:
- (1) providing a meeting space for Community Liaison Committee meetings;

- (2) providing access to resources, such as a photocopier, stationery, and office supplies, so that the Community Liaison Committee can:
  - a) prepare and distribute meeting notices;
  - b) record and distribute minutes of each meeting; and
  - c) prepare reports about the Community Liaison Committee's activities.

P10. The Company shall submit any reports of the Community Liaison Committee to the Director and post it on the Company's publicly accessible website, if the Company has a website.

## **Q – OPERATION AND MAINTENANCE**

- Q1. Prior to the commencement of the operation of the Facility, the Company shall prepare a written manual for use by Company staff outlining the operating procedures and a maintenance program for the Equipment that includes as a minimum the following:
- (1) routine operating and maintenance procedures in accordance with good engineering practices and as recommended by the Equipment suppliers;
  - (2) emergency procedures;
  - (3) procedures for any record keeping activities relating to operation and maintenance of the Equipment; and
  - (4) all appropriate measures to minimize noise emissions from the Equipment.
- Q2. The Company shall;
- (1) update, as required, the manual described in Condition Q1; and
  - (2) make the manual described in Condition Q1 available for review by the Ministry upon request.
- Q3. The Company shall ensure that the Facility is operated and maintained in accordance with the Approval and the manual described in Condition Q1.

## **R – RECORD CREATION AND RETENTION**

- R1. The Company shall create written records consisting of the following:
- (1) an operations log summarizing the operation and maintenance activities of the Facility;
  - (2) within the operations log, a summary of routine and Ministry inspections of the Facility; and

- (3) a record of any complaint alleging an Adverse Effect caused by the construction, installation, use, operation, maintenance or retirement of the Facility.

R2. A record described under Condition R1 (3) shall include:

- (1) a description of the complaint that includes as a minimum the following:
  - a) the date and time the complaint was made;
  - b) the name, address and contact information of the person who submitted the complaint;
- (2) a description of each incident to which the complaint relates that includes as a minimum the following:
  - a) the date and time of each incident;
  - b) the duration of each incident;
  - c) the wind speed and wind direction at the time of each incident;
  - d) the ID of the Equipment involved in each incident and its output at the time of each incident;
  - e) the location of the person who submitted the complaint at the time of each incident; and
- (3) a description of the measures taken to address the cause of each incident to which the complaint relates and to prevent a similar occurrence in the future.

R3. The Company shall retain, for a minimum of five (5) years from the date of their creation, all records described in Condition R1, and make these records available for review by the Ministry upon request.

## **S – NOTIFICATION OF COMPLAINTS**

- S1. The Company shall notify the District Manager of each complaint within two (2) business days of the receipt of the complaint.
- S2. The Company shall provide the District Manager with the written records created under Condition R2 within eight (8) business days of the receipt of the complaint.

## **T – CHANGE OF OWNERSHIP**

- T1. The Company shall notify the Director in writing, and forward a copy of the notification to the District Manager, within thirty (30) days of the occurrence of any of the following changes:
  - (1) the ownership of the Facility;

- (2) the operator of the Facility;
- (3) the address of the Company;
- (4) the partners, where the Company is or at any time becomes a partnership and a copy of the most recent declaration filed under the *Business Names Act* , R.S.O. 1990, c.B.17, as amended, shall be included in the notification; and
- (5) the name of the corporation where the Company is or at any time becomes a corporation, other than a municipal corporation, and a copy of the most current information filed under the *Corporations Information Act* , R.S.O. 1990, c. C.39, as amended, shall be included in the notification.



## **SCHEDULE A**

### **Facility Description**

The Facility shall consist of the construction, installation, operation, use and retiring of the following Equipment:

- (a) a total of sixty-two (62) out of the sixty-five (65) General Electric Model GE 1.6-100 wind turbine generators, each rated at 1.6 megawatts generating output capacity, as specified in the Acoustic Assessment Report;
- (b) one (1) General Electric Model GE 1.56 - 100 wind turbine generator rated at 1.56 megawatts generating output capacity;
- (c) the total name plate capacity of up to approximately one hundred and two (102) megawatts, designated as source ID Nos. 2 - 6, 8 - 15, 19 - 23, 31 - 39, 41 - 42, 47 - 50, 52 - 78, 80 - 82, and 84 - 86 , respectively each with a hub height of 80 metres above grade, and sited at the locations shown in Schedule B;
- (d) one (1) transformer substation rated at 115 MVA and sited at the location shown in Schedule B; and
- (e) associated ancillary equipment, systems and technologies including on-site access roads, underground cabling and overhead transmission lines,

all in accordance with the Application.

## SCHEDULE B

### Coordinates of the Equipment and Noise Specifications

Coordinates of the Equipment are listed below in UTM, Z17-NAD83 projection:

	<b>Source ID</b>	<b>Maximum Sound Power Level (dBA)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Source Description</b>
1	Trans	104	454,556	4,794,883	Prolec GE 102/136/170 MVA
2	WTG 02	103	450,520	4,805,782	GE 1.6 - 100 LNTE
3	WTG 03	103	451,051	4,805,361	GE 1.6 - 100 LNTE
4	WTG 04	103	450,524	4,804,972	GE 1.6 - 100 LNTE
5	WTG 05	103	451,300	4,804,616	GE 1.6 - 100 LNTE
6	WTG 06	103	451,203	4,803,770	GE 1.6 - 100 LNTE
7	WTG 08	103	447,071	4,803,417	GE 1.6 - 100 LNTE
8	WTG 09	103	446,830	4,802,090	GE 1.6 - 100 LNTE
9	WTG 10	103	448,722	4,804,602	GE 1.6 - 100 LNTE
10	WTG 11	103	448,568	4,803,670	GE 1.6 - 100 LNTE
11	WTG 12	103	449,241	4,803,328	GE 1.6 - 100 LNTE
12	WTG 13	103	448,911	4,802,237	GE 1.6 - 100 LNTE
13	WTG 14	103	448,875	4,801,624	GE 1.6 - 100 LNTE
14	WTG 15	103	449,226	4,800,450	GE 1.6 - 100 LNTE
15	WTG 19	103	445,549	4,795,811	GE 1.6 - 100 LNTE
16	WTG 20	103	445,679	4,795,219	GE 1.6 - 100 LNTE
17	WTG 21	103	445,847	4,794,126	GE 1.6 - 100 LNTE
18	WTG 22	103	447,530	4,795,721	GE 1.6 - 100 LNTE
19	WTG 23	103	447,843	4,796,331	GE 1.6 - 100 LNTE

	<b>Source ID</b>	<b>Maximum Sound Power Level (dBA)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Source Description</b>
20	WTG 31	103	452,335	4,797,930	GE 1.6 - 100 LNTE
21	WTG 32	103	452,553	4,796,971	GE 1.6 - 100 LNTE
22	WTG 33	103	452,366	4,796,399	GE 1.6 - 100 LNTE
23	WTG 34	103	453,108	4,799,573	GE 1.6 - 100 LNTE
24	WTG 35	103	454,089	4,796,605	GE 1.6 - 100 LNTE
25	WTG 36	103	446,196	4,792,203	GE 1.6 - 100 LNTE
26	WTG 37	103	446,287	4,791,638	GE 1.6 - 100 LNTE
27	WTG 38	103	446,167	4,791,042	GE 1.6 - 100 LNTE
28	WTG 39	103	447,984	4,793,710	GE 1.6 - 100 LNTE
29	WTG 41	103	448,895	4,791,606	GE 1.6 - 100 LNTE
30	WTG 42	103	448,990	4,790,737	GE 1.6 - 100 LNTE
31	WTG 47	103	452,425	4,792,588	GE 1.6 - 100 LNTE
32	WTG 48	103	452,825	4,793,244	GE 1.6 - 100 LNTE
33	WTG 49	103	454,586	4,792,838	GE 1.6 - 100 LNTE
34	WTG 50	103	455,040	4,793,271	GE 1.6 - 100 LNTE
35	WTG 52	104	440,156	4,788,373	GE 1.56 - 100
36	WTG 53	103	442,135	4,790,871	GE 1.6 - 100 LNTE
37	WTG 54	103	439,792	4,790,436	GE 1.6 - 100 LNTE
38	WTG 55	103	440,005	4,789,811	GE 1.6 - 100 LNTE
39	WTG 56	103	439,925	4,788,922	GE 1.6 - 100 LNTE
40	WTG 57	103	438,121	4,790,232	GE 1.6 - 100 LNTE
41	WTG 58	103	437,973	4,789,428	GE 1.6 - 100 LNTE
42	WTG 59	103	438,098	4,788,616	GE 1.6 - 100 LNTE
43	WTG 60	103	437,501	4,789,050	GE 1.6 - 100 LNTE
44	WTG 61	103	437,294	4,788,459	GE 1.6 - 100 LNTE
45	WTG 62	103	437,743	4,788,017	GE 1.6 - 100 LNTE
46	WTG 63	103	438,227	4,787,615	GE 1.6 - 100 LNTE

	<b>Source ID</b>	<b>Maximum Sound Power Level (dBA)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Source Description</b>
47	WTG 64	103	446,988	4,791,822	GE 1.6 - 100 LNTE
48	WTG 65	103	454,014	4,798,992	GE 1.6 - 100 LNTE
49	WTG 66	103	446,376	4,794,650	GE 1.6 - 100 LNTE
50	WTG 67	103	453,955	4,799,707	GE 1.6 - 100 LNTE
51	WTG 68	103	450,577	4,790,696	GE 1.6 - 100 LNTE
52	WTG 69	103	450,788	4,791,504	GE 1.6 - 100 LNTE
53	WTG 70	103	450,838	4,792,170	GE 1.6 - 100 LNTE
54	WTG 71	103	451,847	4,795,562	GE 1.6 - 100 LNTE
55	WTG 72	103	450,670	4,804,345	GE 1.6 - 100 LNTE
56	WTG 73	103	453,192	4,800,669	GE 1.6 - 100 LNTE
57	WTG 74	103	453,886	4,795,484	GE 1.6 - 100 LNTE
58	WTG 75	103	454,731	4,795,014	GE 1.6 - 100 LNTE
59	WTG 76	103	454,137	4,793,736	GE 1.6 - 100 LNTE
60	WTG 77	103	453,186	4,791,237	GE 1.6 - 100 LNTE
61	WTG 78	103	447,027	4,790,721	GE 1.6 - 100 LNTE
62	WTG 80	103	445,510	4,796,315	GE 1.6 - 100 LNTE
63	WTG 81	103	450,167	4,794,140	GE 1.6 - 100 LNTE
64	WTG 82	103	452,242	4,793,145	GE 1.6 - 100 LNTE
65	WTG 84	103	438,410	4,790,647	GE 1.6 - 100 LNTE
66	WTG 85	103	446,173	4,795,111	GE 1.6 - 100 LNTE
67	WTG 86	103	446,578	4,793,447	GE 1.6 - 100 LNTE

Note: The transformer substation Sound Power Level value in the above table includes the 5 decibel (dB) adjustment for tonality as prescribed in Publication NPC-104.

*The reasons for the imposition of these terms and conditions are as follows:*

1. Conditions A1, A2 and A8 are included to ensure that the Facility is constructed, installed, used, operated, maintained and retired in the manner in which it was described for review and upon which Approval was granted. These conditions are also included to emphasize the precedence of conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.
2. Conditions A3 and A4 are included to require the Company to provide information to the public and the local municipality.
3. Conditions A5 and A6 are included to ensure that final retirement of the Facility is completed in an aesthetically pleasing manner, in accordance with Ministry standards, and to ensure long-term protection of the health and safety of the public and the environment.
4. Condition A7 is included to require the Company to inform the Ministry of the commencement of activities related to the construction, installation and operation of the Facility.
5. Condition B is intended to limit the time period of the Approval.
6. Condition C1 is included to provide the minimum performance requirement considered necessary to prevent an Adverse Effect resulting from the operation of the Equipment and to ensure that the noise emissions from the Equipment will be in compliance with applicable limits set in the Noise Guidelines for Wind Farms.
7. Conditions A8, C2, C3 and D are included to ensure that the Equipment is constructed, installed, used, operated, maintained and retired in a way that meets the regulatory setback prohibitions set out in O. Reg. 359/09.
8. Conditions E and F are included to require the Company to gather accurate information so that the environmental noise impact and subsequent compliance with the Act, O. Reg. 359/09, the Noise Guidelines for Wind Farms and this Approval can be verified.
9. Conditions G, H, I, J, K and L are included to ensure that the Facility is constructed, installed, used, operated, maintained and retired in a way that does not result in an Adverse Effect or hazard to the natural environment or any persons.
10. Condition M is included to ensure that Environment Canada's Exeter Radar Station can continue to be used to provide accurate and reliable forecasts and weather warnings consistent with Environment Canada's mandate.
11. Condition N is included to ensure continued communication between the Company and interested Aboriginal communities.
12. Condition O is included to protect archaeological resources that may be found at the project location.

13. Condition P is included to ensure continued communication between the Company and the local residents.
14. Condition Q is included to emphasize that the Equipment must be maintained and operated according to a procedure that will result in compliance with the Act, O. Reg. 359/09 and this Approval.
15. Condition R is included to require the Company to keep records and provide information to the Ministry so that compliance with the Act, O. Reg. 359/09 and this Approval can be verified.
16. Condition S is included to ensure that any complaints regarding the construction, installation, use, operation, maintenance or retirement of the Facility are responded to in a timely and efficient manner.
17. Condition T is included to ensure that the Facility is operated under the corporate name which appears on the application form submitted for this Approval and to ensure that the Director is informed of any changes.

## **NOTICE REGARDING HEARINGS**

*In accordance with Section 139 of the Environmental Protection Act, within 15 days after the service of this notice, you may by further written notice served upon the Director, the Environmental Review Tribunal and the Environmental Commissioner, require a hearing by the Tribunal.*

*Section 142 of the Environmental Protection Act provides that the notice requiring the hearing shall state:*

1. The portions of the renewable energy approval or each term or condition in the renewable energy approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

*The signed and dated notice requiring the hearing should also include:*

3. The name of the appellant;
4. The address of the appellant;
5. The renewable energy approval number;
6. The date of the renewable energy approval;
7. The name of the Director;
8. The municipality or municipalities within which the project is to be engaged in;

*This notice must be served upon:*

The Secretary\*  
Environmental Review Tribunal  
655 Bay Street, 15th Floor  
Toronto, Ontario  
M5G 1E5

AND

The Environmental Commissioner  
1075 Bay Street, 6th Floor  
Suite 605  
Toronto, Ontario  
M5S 2B1

AND

The Director  
Section 47.5, *Environmental  
Protection Act*  
Ministry of the Environment  
2 St. Clair Avenue West, Floor 12A  
Toronto, Ontario  
M4V 1L5

**\* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 314-3717 or [www.ert.gov.on.ca](http://www.ert.gov.on.ca)**

*Under Section 142.1 of the Environmental Protection Act, residents of Ontario may require a hearing by the Environmental Review Tribunal within 15 days after the day on which notice of this decision is published in the Environmental Registry. By accessing the Environmental Registry at [www.ebr.gov.on.ca](http://www.ebr.gov.on.ca), you can determine when this period ends.*

*Approval for the above noted renewable energy project is issued to you under Section 47.5 of the Environmental Protection Act subject to the terms and conditions outlined above.*

DATED AT TORONTO this 24th day of July, 2014



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Vic Schroter, P.Eng.  
Director  
Section 47.5, *Environmental Protection Act*

NC/

c: District Manager, MOE Owen Sound

