

RENEWABLE ENERGY APPROVALNUMBER 3948-9RD LRF
Issue Date: February 11, 2016wpd Fairview Wind Incorporated
2233 Argentia Rd, Suite No. 102
Mississauga, Ontario
L5N 2X7Project: Fairview Wind Project
Location: Clearview Township, County of Simcoe

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 nameplate capacity of 16.4 megawatts (MW).

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 Acoustic Assessment Report Fairview Wind Project, dated December 4, 2014, prepared by HGC Engineering Limited and signed by Ian Bonsma, HGC Engineering Limited and Kevin R. Surette, wpd Canada Corporation;
2. "Acoustic Audit - Emission" means an investigative procedure that is compliant with the CAN/CSA Standard 61400-11-07 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. "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;
7. "Act" means the *Environmental Protection Act*, R.S.O 1990, c.E.19, as amended;
8. "Adverse Effect" has the same meaning as in the Act;
9. "Application" means the application for a Renewable Energy Approval dated August 31, 2012, and signed by Khlaire Parré, Director of Renewable Energy Approvals, wpd Canada, on behalf of wpd Fairview Wind Incorporated, and all supporting documentation submitted with the application, including amended documentation submitted up to the date this Approval is issued;
10. "Approval" means this Renewable Energy Approval issued in accordance with Section 47.5 of the Act, including any schedules to it;
11. "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";
12. "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";
13. "CAN/CSA Standard 61400-11:07" means the "Wind turbine generator systems – Part 11: Acoustic noise measurement techniques", dated October 2007;
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 wpd Fairview Wind Incorporated 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 and Climate Change 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 wind turbine generators, 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. "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;
26. "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;
27. "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;

28. "Noise Receptor" has the same meaning as in O. Reg. 359/09;
29. "Publication NPC-233" means Ministry Publication NPC-233, "Information to be Submitted for Approval of Stationary Sources of Sound", October 1995;
30. "O. Reg. 359/09" means Ontario Regulation 359/09 "Renewable Energy Approvals under Part V.0.1 of the Act" made under the Act;
31. "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'
32. "Qualified Independent Structural Engineer" means a Professional Engineer with training and/or experience in structural engineering and is not representing the Company and who was not involved in preparing the heritage assessment reports;
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 (μ Pa);
37. "Sound Pressure Level" means twenty times the logarithm to the base 10 of the ratio of the effective pressure (μ Pa) of a sound to the reference pressure of 20 μ 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. The Company shall, at least six (6) months prior to the anticipated retirement date of the entire Facility, or part of the Facility, contact the ministry responsible for agriculture in Ontario at that time to discuss its plans for the decommissioning of the Facility, and follow any directions provided by that ministry in respect of the Company's plans to restore the project location to its previous agricultural capacity.

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 or 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:

Wind Speed (m/s) at 10 m height	4	5	6	7	8	9	10
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. Twenty five (25) vacant lot locations identified in Table A3 entitled "Non-Participating Receptor Locations Fairview Wind Project" from the Acoustic Assessment Report, as the Non-Participating Vacant with ID numbers R112-R136 are specified as Noise Receptors for the purposes of subsection 54 (1.1) 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 at the two (2) separate occasions at three (3) different Points of Reception;
 - (3) the Points of Reception shall be selected using the following criteria:
 - (a) the selected Points of Reception should represent the location of the greatest predicted noise impact, i.e., the highest predicted Sound Level; and
 - (b) the selected Points of Reception should be located in the direction of prevailing winds from the Facility;
 - (c) subject to clauses (a) and (b) above and a written agreement by the Director, a measurement location other than a Point of Reception may be selected as long as clear evidence is provided to the Director and the District Manager that the Point(s) of Reception are inaccessible.
- 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 after the commencement of the operation of the Facility, or such other date as agreed to in writing by the Director, 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 after the commencement of the operation of the Facility, or such other date as agreed to in writing by the Director, for the second of the two (2) acoustic audit measurements at the three (3) Points of Reception.

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 CAN/CSA Standard 61400-11:07;
 - (2) the acoustic emission measurements shall be performed by an Independent Acoustical Consultant; and

- (3) the acoustic emission measurements shall be performed on one (1) of the wind turbine generators 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 Standard 61400-11:07 by an Independent Acoustical Consultant, no later than six (6) months after the commencement of the operation of the Facility.
- F3. In addition to the requirements described in Condition F2, the Acoustic Audit Report-Emission must include a summary of the measurement results corresponding to the maximum Sound Power Levels (dBA) shown in Table B1 of Schedule B, and contained in Appendix D of the Acoustic Assessment Report. The purpose of the summary is to confirm the noise specifications of the wind turbine generators with the specifications included in the Application. The following items must be included in the 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 measured Sound Power Levels of the wind turbine generators, do not exceed the values of the maximum Sound Power Level (dBA) shown in Table B1 of Schedule B of the Approval; and
 - (4) a statement that the wind turbine generators tonal audibility values, as per Condition F3 (2), comply with the maximum tonal audibility value noted in the Acoustic Assessment Report.
- F4. If the results from the Acoustic Audit Report-Emission described in Condition F3 find that any of the wind turbine generators' Sound Power Levels and/or the tonal audibility values exceed the values specified within Schedule B of the Approval and/or the Acoustic Assessment Report, the Company shall:
 - (1) provide within the Acoustic Audit Report-Emission a detailed description of the operational mitigation measures which shall be implemented (no later than nine (9) months after the commencement of the operation of the Facility, or such other date as agreed to in writing by the Director) at all wind turbine generators at the Facility to ensure compliance with the applicable criteria; and
 - (2) carry out an additional Acoustic Audit - Emission of the acoustic emissions produced by the operation of the wind turbine generators in accordance with the requirements described in Conditions F1, F2 and F3, and submit the Acoustic Audit Report-Emission to the Director and the District Manager no later than twelve (12) months after the commencement of the operation of the Facility, or such other date as agreed to in writing by the Director.

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.

H - WATER TAKING ACTIVITIES

H1. For foundation dewatering, if the amount of discharge exceeds 50,000 litres per day, the Company shall:

- (1) Ensure that discharge water not exceed a total suspended solids concentration of 25 mg/L if water from the construction dewatering will be discharged to a surface water receiver.
- (2) Ensure that discharge water is directed to a vegetated area at least 30 m from a water body, where possible.
- (3) Ensure that sediment and erosion control measures are maintained around the project site during dewatering.
- (4) 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 AND PRE AND POST CONSTRUCTION MONITORING

GENERAL

I1. The Company shall implement the Environmental Effects Monitoring Plan for the Fairview Wind Project, titled *Fairview Wind Project Environmental Monitoring Plan for Wildlife*, dated May, 2012, and the commitments made in the following reports and included in the Application, and which the Company submitted to the Ministry of Natural Resources and Forestry in order to comply with O. Reg. 359/09:

- *Fairview Wind Project, Natural Heritage Assessment and Environmental Impact Study*, January 2012, prepared by Stantec
- *Fairview Wind Farm NHA/EIS Addendum for Alternative Access Roads and Collector Line Changes*, March 13, 2014, prepared by Stantec

I2. If the Company determines that it must deviate from the Environmental Effects Monitoring Plan or the Environmental Impact Study or Addendum dated March 13, 2014, described in Condition I1, the Company shall contact the District Manager and the Ministry of Natural Resources and Forestry, prior to making any changes to the Environmental Effects Monitoring Plan or the Environmental Impact Study or Addendum, and follow any directions provided.

POST CONSTRUCTION MONITORING - BIRDS AND BATS

- I3. The Company shall implement the post-construction bird and bat mortality monitoring described in the Environmental Effects Monitoring Plan, described in Condition I1, at all eight (8) constructed wind turbines.

THRESHOLDS AND MITIGATION

- I4. The Company shall contact the District Manager and the Ministry of Natural Resources and Forestry if any of the following bird and bat mortality thresholds, as stated in the Environmental Effects Monitoring Plan for the Fairview Wind Project 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) 2 raptors per wind power project per year (projects with <10 turbines);
 - (4) 10 or more birds at any one turbine during a single monitoring survey; or
 - (5) 33 or more birds (including raptors) at multiple turbines during a single monitoring survey.
- I5. If the bat mortality threshold described in Condition I4 (1) is exceeded, the Company shall:
- (1) implement operational mitigation measures consistent with those described in the Ministry of Natural Resources and Forestry 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:
 - (a) adjust 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 for the operating life of the facility; and
 - (2) implement an additional three (3) years of effectiveness monitoring.
- I6. If the bat mortality threshold described in Condition I4 (1) is exceeded after operational mitigation is implemented in accordance with Condition I5, the Company shall prepare and implement a contingency plan, in consultation with the District Manager and the Ministry of Natural Resources and Forestry, to address mitigation actions which shall include additional mitigation and scoped monitoring requirements.

- I7. If any of the bird mortality thresholds described in Conditions I4 (2) and I4 (3) are exceeded for turbines located outside 120 m of bird significant wildlife habitat, the Company shall conduct two (2) years of subsequent scoped mortality monitoring and cause and effects monitoring. Following the completion of scoped monitoring, the Company shall implement operational mitigation and effectiveness monitoring at individual turbines as agreed to between the Company, the District Manager and the Ministry of Natural Resources and Forestry, for the first three (3) years following the implementation of mitigation.
- I8. If either of the bird mortality thresholds described in Conditions I4 (4) or I4 (5) 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 District Manager and the Ministry of Natural Resources and Forestry.
- I9. If any of the bird mortality thresholds described in Conditions I4 (2), I4 (3), or I4 (4) are exceeded while monitoring is being implemented in accordance with Condition I7, or if either of the bird mortality thresholds described in Conditions I4 (4) or I4 (5) are exceeded after mitigation is implemented in accordance with Condition I8, the Company shall contact the District Manager and the Ministry of Natural Resources and Forestry 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, District Manager and the Ministry of Natural Resources and Forestry.

REPORTING AND REVIEW OF RESULTS

- I10. The Company shall report, in writing, bird and bat mortality levels to the District Manager and the Ministry of Natural Resources and Forestry 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 I4 (4) or I4 (5) are exceeded, the Company shall report the mortality event to the District Manager and the Ministry of Natural Resources and Forestry 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 and Forestry within 24 hours of observation or the next business day;
- (3) if the bat mortality threshold described in Condition I4 (1) is exceeded, the Company shall report mortality levels to the District Manager, and the Ministry of Natural Resources and Forestry for the additional three (3) years of monitoring described in Condition I5, 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 I4 (2), I4 (3), or I4 (4) are exceeded for turbines located outside 120 m of bird significant wildlife habitat, the Company shall report mortality levels to the District Manager and the Ministry of Natural Resources and Forestry for the additional two (2) years of cause and effects monitoring described in Condition I7, on an annual basis and within three (3) months of the conclusion of the November mortality monitoring for each year; and
- (5) if the Company implements operational mitigation following cause and effects monitoring in accordance with Condition I7, the Company shall report mortality levels to the District Manager and the Ministry of Natural Resources and Forestry for the three (3) years of subsequent effectiveness monitoring described in Condition I7, on an annual basis and within three (3) months of the conclusion of the November mortality monitoring for each year.

I11. 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 District Manager and the Ministry of Natural Resources and Forestry;
- (2) annual bird and bat mortality monitoring as described in Condition I10 with the exception of Condition I10 (2), within ten (10) days of submitting the final report(s) to the District Manager and the Ministry of Natural Resources and Forestry.

J - ENDANGERED SPECIES ACT REQUIREMENTS

J1. The Company shall ensure that activities requiring authorization under the *Endangered Species Act, 2007* will not commence until necessary authorizations are in place.

K - MUNICIPAL CONSULTATION

- K1. Within three (3) months of receiving this Approval, the Company shall prepare a Traffic Management Plan and provide it to Clearview Township and Simcoe County.
- K2. Within three (3) months of having provided the Traffic Management Plan to Clearview Township and Simcoe County, the Company shall make reasonable efforts to enter into a Road Users Agreement with Clearview Township and Simcoe County.
- K3. If a Road Users Agreement has not been signed with Clearview Township and Simcoe County within three (3) months of having provided the Traffic Management Plan to Clearview Township and Simcoe County, the Company shall provide a written explanation to the Director and District Manager as to why this has not occurred.
- K4. The Company shall make reasonable efforts to keep Clearview Township and Simcoe County informed of construction, operation and decommissioning activities associated with the Facility, and make reasonable efforts to ensure that all commitments made to Clearview Township and Simcoe County are met.

L - EMERGENCY RESPONSE AND COMMUNICATIONS PLAN

- L1. The Company shall prepare an Emergency Response and Communications Plan to address each project phase (construction, operation and decommissioning) and shall include at a minimum the following information:
 - (1) Hazard identification and assessment;
 - (2) Communication system (including updated emergency contact information for the Company) and procedures;
 - (3) Administration of the plan (including roles and responsibilities, and emergency resources); and
 - (4) Emergency response procedures.
- L2. The Company shall consult with Clearview Township, Simcoe County, and any interested parties about the content of the plan and consider any comments received.
- L3. The Company shall finalize the plan prior to the commencement of construction.

M - CULTURAL HERITAGE RESOURCES

- M1. The Company shall avoid construction activities within 60 metres of cultural heritage resources identified below. Where construction within 60 metres cannot be avoided, maximum acceptable vibration levels (peak particle velocity (PPV) levels) shall be determined by a Qualified Independent Structural Engineer prior to the commencement of any construction activities (pre-construction survey):

- 7975 County Road 91 (BHR 4)

- M2. The Qualified Independent Structural Engineer shall perform a pre and post construction inspection of any structures located on the heritage resources identified above and their foundations to confirm their capacity to withstand project-related vibrations.
- M3. The Company shall perform ongoing vibration monitoring if construction is within the 60 metre bufferzone to ensure that PPV levels are within the acceptable level as determined in accordance with Condition M1. Should levels be exceeded, the Company shall cease construction activities within the 60 metre bufferzone until an acceptable solution can be identified by the Qualified Independent Structural Engineer.

N - ARCHAEOLOGICAL RESOURCES

- N1. 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.
- N2. 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 and District Manager as soon as reasonably possible.

O - AERONAUTICAL SYSTEMS

- O1. The Company shall retain an independent aeronautical consultant who has not represented the Company and was not involved in any of the studies submitted as part of the Application. The independent aeronautical consultant shall recommend mitigation measures that, given the presence of the Equipment included as part of this Approval, and the governing Canadian Aviation Regulations (CARs) and Standards, will enable Collingwood Regional Airport and Stayner (Clearview Field) Aerodrome to fulfill their duties related to safety.
- O2. The Company shall implement the mitigation measures recommended in Condition O1 that are within its control, and at its expense, prior to the submission of the erection of the turbines notice to NAV CANADA.
- O3. The Company shall pay for recommended mitigation measures required to enable Collingwood Regional Airport and Stayner (Clearview Field) Aerodrome to fulfill their duties related to safety.

- O4. The Company will notify NAV CANADA at least ten (10) business days prior to the erection of the turbines and will provide a copy of the notification to the Director and the District Manager on the same day it is provided to NAV CANADA.
- O5. The Company shall provide the Director and the District Manager with a copy of the notice to airmen (NOTAM) within five (5) business days of the publication of the procedure changes.

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 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 and District Manager are 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 and District Manager 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 and District Manager 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 District Manager and post it on the Company's publicly accessible website, if the Company has a website.

Q – ABORIGINAL CONSULTATION

- Q1. 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.
- Q2. 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.
- Q3. 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.
- Q4. 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.

R - OPERATION AND MAINTENANCE

- R1. 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.
- R2. The Company shall;
- (1) update, as required, the manual described in Condition R1; and
 - (2) make the manual described in Condition R1 available for review by the Ministry upon request.
- R3. The Company shall ensure that the Facility is operated and maintained in accordance with the Approval and the manual described in Condition R1.

S - RECORD CREATION AND RETENTION

S1. 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.

S2. A record described under Condition S1 (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.

S3. The Company shall retain, for a minimum of five (5) years from the date of their creation, all records described in Condition S1, and make these records available for review by the Ministry upon request.

T - NOTIFICATION OF COMPLAINTS

T1. The Company shall notify the District Manager of each complaint within two (2) business days of the receipt of the complaint.

T2. The Company shall provide the District Manager with the written records created under Condition S2 within eight (8) business days of the receipt of the complaint.

U - CHANGE OF OWNERSHIP

- U1. 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:

- (a) eight (8) wind turbine generators each rated at 2.05 megawatts generating output capacity with a total name plate capacity of 16.4 megawatts, designated as source ID Nos. WTG1-WTG8, each with a hub height of 100 metres above grade, and sited at the locations shown in Schedule B of this Approval; and
- (b) associated ancillary equipment, systems and technologies including but not limited to, on-site access roads, underground cabling, and overhead distribution 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:

Table B1: Coordinates and Maximum Sound Power Levels of Wind Turbine Generators

Source ID	Maximum Sound Power Level (dBA)	Easting (m)	Northing (m)	Equipment Description
WTG 1	104.2	568071	4918096	Senvion MM92/60Hz/CCV, 2.05 MW, hub 100 m
WTG 2	104.2	570594	4915900	Senvion MM92/60Hz/CCV, 2.05 MW, hub 100 m
WTG 3	104.2	567507	4918540	Senvion MM92/60Hz/CCV, 2.05 MW, hub 100 m
WTG 4	104.2	567876	4918452	Senvion MM92/60Hz/CCV, 2.05 MW, hub 100 m
WTG 5	104.2	568604	4917601	Senvion MM92/60Hz/CCV, 2.05 MW, hub 100 m
WTG 6	104.2	568803	4917240	Senvion MM92/60Hz/CCV, 2.05 MW, hub 100 m
WTG 7	104.2	569062	4915327	Senvion MM92/60Hz/CCV, 2.05 MW, hub 100 m
WTG 8	104.2	568512	4918223	Senvion MM92/60Hz/CCV, 2.05 MW, hub 100 m

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

REASONS

1. Conditions A1 and A2 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, A6 and A8 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. Conditions C1 and C2 are 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 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, L, M and O 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 N is included to protect archaeological resources that may be found at the project location.
11. Condition P is included to ensure continued communication between the Company and the local residents.
12. Condition Q is included to ensure continued communication between the Company and interested Aboriginal communities.
13. Condition R 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.
14. Condition S 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.
15. Condition T 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.
16. Condition U 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(2)(c) 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.

In accordance with Section 47 of the Environmental Bill of Rights, 1993, the Environmental Commissioner will place notice of your request for a hearing on the Environmental Registry.

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 and Climate
Change
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) 314-4600, Fax: (416) 314-4506 or 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, 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 11th day of February, 2016



Mohsen Keyvani, P.Eng.
Director
Section 47.5, *Environmental Protection Act*

SR/

c: District Manager, MOECC Barrie
Shawna Peddle, Stantec Consulting Ltd.