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Ministry of the Environment, Conservation and Parks
Ministère de l'Environnement, de la Protection de la nature et des Parcs

AMENDMENT TO RENEWABLE ENERGY APPROVAL NUMBER 5460-98BPH8 Issue Date: September 21, 2018

Dufferin Wind Power Inc.
40 King St W, No. 5101
Toronto, Ontario
M5H 3Y2

Site Location: Dufferin Wind Power Project
Various Properties SWTS as in MEL3218
Lot 270, Concession 1
Melancthon Township, County of Dufferin

You are hereby notified that I have amended Approval No. 5460-98BPH8 issued on June 10, 2013 for a Class 4 wind facility , as follows:

A. The definitions of "Acoustic Assessment Report", "Application" and "Compliance Protocol for Wind Turbine Noise" in the Approval are deleted and replaced by the following:

1. "Acoustic Assessment Report" means the report included in the Application and entitled "Dufferin Wind Power Inc. Renewable Energy Approval (REA) Noise Study Report - Revised Final", dated May 30, 2013, prepared by Dillon Consulting Ltd. and signed by Amir Iravani on May 30, 2013, and all supporting information submitted up to September 21, 2018;
11. "Application" means the application for a Renewable Energy Approval dated August 13, 2012, and signed by Hao Wu, President, Dufferin Wind Power Inc., and all supporting documentation submitted with the application, including amended documentation submitted up to June 10, 2013; and as further amended by the application for a Renewable Energy Approval amendment dated May 23, 2014 and signed by Rebecca Crump, Director of Development of Dufferin Wind Power Inc., and all supporting documentation submitted with the application, including amended documentation submitted up to August 8, 2014; and as further amended by the application for an amendment to a Renewable Energy Approval dated April 29, 2016 and signed by Zhu Dong, President, Dufferin Wind Power Inc., and all supporting documentation submitted with the application, including amended documentation submitted up to July 29, 2016; and as further amended by the application for an amendment to a Renewable Energy Approval dated December 10, 2015 and signed by Zhu Dong, President, Dufferin Wind Power Inc., and all supporting documentation submitted with the application, including amended documentation submitted up to April 18, 2018; and as further amended by the application for an amendment to a Renewable Energy Approval dated May 11, 2018 and signed by Zhu Dong, President, Dufferin

Wind Power Inc., and all supporting documentation submitted with the application, including amended documentation submitted up to September 21, 2018;

20. "Compliance Protocol for Wind Turbine Noise" means the Ministry document entitled, Compliance Protocol for Wind Turbine Noise, Guideline for Acoustic Assessment and Measurement, Publication NPC-350, 2017, as amended;

B. Conditions E1, E2 and E3 of the Approval are deleted.

C. Condition T is added to the Approval:

T – OPERATION SOFTWARE OF THE EQUIPMENT

T1. The Company shall not implement the upgrade to the operation software of the Equipment.

D. Schedules A, B and C of the Approval are deleted and replaced by the following:

**SCHEDULE A
Facility Description**

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

(a) a total of forty nine (49) wind turbine generators with output capacity of 91.387 megawatts as specified in the Acoustic Assessment Report;

(b) the forty nine (49) wind turbines are composed of:

- ten (10) GE 2.75-103 wind turbine generators rated at 2.75 megawatts generating output capacity with a total name plate capacity of up to approximately 27.5 megawatts, designated as source ID Nos. T01, T02, T21, T22, T35, T36, T43, T46, T48 and T49, respectively, each with a hub height of 85 metres above grade;
- five (5) GE 2.565-103 wind turbine generators rated at 2.565 megawatts generating output capacity with a total name plate capacity of up to approximately 12.825 megawatts, designated as source ID Nos. T14, T23, T30, T41 and T44, respectively each with a hub height of 85 metres above grade;
- three (3) GE 2.47-103 wind turbine generators rated at 2.47 megawatts generating output capacity with a total name plate capacity of up to approximately 7.41 megawatts, designated as source ID Nos. T13, T18 and T47, respectively each with a hub height of 85 metres above grade;
- five (5) GE 1.6-100 with LNTE wind turbine generators rated at 1.6 megawatts generating output capacity with a total name plate capacity of up to approximately 8.0 megawatts, designated as source ID Nos. T19, T20, T27, T28 and T31, respectively each with a hub height of 80 metres above grade;
- two (2) GE 1.482-100 with LNTE wind turbine generators rated at 1.482 megawatts generating output capacity with a total name plate capacity of up to approximately 2.964 megawatts, designated as source ID Nos. T15 and T37, respectively each with a hub height of 80 metres above grade;

- twelve (12) GE 1.388-100 with LNTE wind turbine generator rated at 1.388 megawatts generating output capacity with a total name plate capacity of up to approximately 16.656 megawatts, designated as source ID Nos. T03, T04, T09, T10, T12, T24, T32, T33, T38, T40, T42 and T45, respectively each with a hub height of 80 metres above grade;
- twelve (12) GE 1.336-100 with LNTE wind turbine generator rated at 1.336 megawatts generating output capacity with a total name plate capacity of up to approximately 16.032 megawatts, designated as source ID Nos. T05-T08, T11, T16, T17, T25, T26, T29, T34 and T39, respectively each with a hub height of 80 metres above grade;

and all sited at the locations shown in Schedule B;

(c) one (1) transformer substation rated at 110 MVA and sited at the location shown in Schedule B; and

(d) associated ancillary equipment, systems and technologies including but not limited to one (1) transformer substation, access roads, below and above ground cabling, and below and above ground power lines, all in accordance with the Application.

SCHEDULE B

Coordinates of the Equipment and Noise Specification

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

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

Source ID	Maximum Sound Power Level (dBA)	Easting (m)	Northing (m)	Source Description
T01	105.0	562,378	4,899,922	GE model 2.75-103 2.75 MW
T02	105.0	562,432	4,899,644	GE model 2.75-103 2.75 MW
T03	101.0	562,514	4,898,736	GE model 1.388-100 with LNTE 1.388 MW
T04	101.0	562,669	4,898,423	GE model 1.388-100 with LNTE 1.388 MW
T05	100.0	562,737	4,898,030	GE model 1.336-100 with LNTE 1.336 MW
T06	100.0	562,797	4,897,714	GE model 1.336-100 with LNTE 1.336 MW
T07	100.0	562,744	4,897,324	GE model 1.336-100 with LNTE 1.336 MW
T08	100.0	562,791	4,897,066	GE model 1.336-100 with LNTE 1.336 MW
T09	101.0	561,040	4,898,527	GE model 1.388-100 with LNTE 1.388 MW
T10	101.0	561,186	4,898,131	GE model 1.388-100 with LNTE 1.388

				MW
T11	100.0	561,240	4,897,794	GE model 1.336-100 with LNTE 1.336 MW
T12	101.0	561,299	4,897,498	GE model 1.388-100 with LNTE 1.388 MW
T13	103.0	561,378	4,896,345	GE model 2.47-103 2.47 MW
T14	104.0	561,618	4,895,826	GE model 2.565-103 2.565 MW
T15	102.0	561,666	4,895,569	GE model 1.482-100 with LNTE 1.482 MW
T16	100.0	561,828	4,894,785	GE model 1.336-100 with LNTE 1.336 MW
T17	100.0	561,892	4,894,329	GE model 1.336-100 with LNTE 1.336 MW
T18	103.0	562,310	4,893,515	GE model 2.47-103 2.47 MW
T19	103.0	562,216	4,893,262	GE model 1.6-100 with LNTE 1.6 MW
T20	103.0	562,073	4,892,880	GE model 1.6-100 with LNTE 1.6 MW
T21	105.0	562,267	4,892,525	GE model 2.75-103 2.75 MW
T22	105.0	552,717	4,896,359	GE model 2.75-103 2.75 MW
T23	104.0	560,154	4,896,217	GE model 2.565-103 2.565 MW
T24	101.0	560,263	4,894,831	GE model 1.388-100 with LNTE 1.388 MW
T25	100.0	560,543	4,893,994	GE model 1.336-100 with LNTE 1.336 MW
T26	100.0	560,935	4,893,530	GE model 1.336-100 with LNTE 1.336 MW
T27	103.0	561,304	4,893,183	GE model 1.6-100 with LNTE 1.6 MW
T28	103.0	558,452	4,897,767	GE model 1.6-100 with LNTE 1.6 MW
T29	100.0	558,778	4,897,217	GE model 1.336-100 with LNTE 1.336 MW
T30	104.0	558,570	4,895,835	GE model 2.565-103 2.565 MW

Table B1: Coordinates and Maximum Sound Power Levels of Wind Turbine Generators and Transformer Substation (continued)

Source ID	Maximum Sound Power Level (dBA)	Easting (m)	Northing (m)	Source Description
T31	103.0	558,502	4,895,458	GE model 1.6-100 with LNTE 1.6 MW
T32	101.0	559,022	4,895,465	GE model 1.388-100 with LNTE 1.388 MW
T33	101.0	559,329	4,894,887	GE model 1.388-100 with LNTE 1.388 MW
T34	100.0	559,445	4,893,813	GE model 1.336-100 with LNTE 1.336 MW

T35	105.0	559,145	4,893,324	GE model 2.75-103 2.75 MW
T36	105.0	559,521	4,892,927	GE model 2.75-103 2.75 MW
T37	102.0	557,251	4,897,375	GE model 1.482-100 with LNTE 1.482 MW
T38	101.0	557,187	4,897,019	GE model 1.388-100 with LNTE 1.388 MW
T39	100.0	557,187	4,896,659	GE model 1.336-100 with LNTE 1.336 MW
T40	101.0	557,667	4,896,110	GE model 1.388-100 with LNTE 1.388 MW
T41	104.0	558,035	4,893,974	GE model 2.565-103 2.565 MW
T42	101.0	555,984	4,895,978	GE model 1.388-100 with LNTE 1.388 MW
T43	105.0	556,098	4,895,710	GE model 2.75-103 2.75 MW
T44	104.0	555,133	4,896,530	GE model 2.565-103 2.565 MW
T45	101.0	555,186	4,896,232	GE model 1.388-100 with LNTE 1.388 MW
T46	105.0	554,602	4,896,539	GE model 2.75-103 2.75 MW
T47	103.0	554,552	4,896,110	GE model 2.47-103 2.47 MW
T48	105.0	553,080	4,895,624	GE model 2.75-103 2.75 MW
T49	105.0	553,071	4,895,223	GE model 2.75-103 2.75 MW
Transformer Substation	99.0*	561,533	4,896,191	Transformer Substation, See Table B2 below

*NOTE: The Sound Power Level reported above for the Transformer Substation does include the 5 decibels (dB) adjustment for tonality as prescribed in Publication NPC-104.

Table B2 : Maximum Sound Power Level spectrum (dBA) of the 110 MVA Transformer Substation

Transformer Substation	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
Sound Power Level (dB)	98	99	98	100	92	85	74	66

Note: The Transformer Substation Sound Power Level values above include the 5 decibel (dB) adjustment for tonality as prescribed in Publication NPC-104.

SCHEDULE C

Noise Control Measures

Acoustic Barrier - 110 MVA Transformer Substation:

One (1) three sided, 38 metres long, 5.2 and 8.3 metres high acoustic barrier, positioned as per Table and Figure 3 of the Acoustic Assessment Report. The acoustic barrier shall be continuous without holes, gaps and other penetrations, and having a surface mass density of at least 20 kilograms per square metres.

REASONS:

22. Conditions E1, E2 and E3 have been deleted because the Acoustic Audit Reports- Immission and Acoustic Audit Report - Transformer Substation have already been submitted to the Ministry, as per sub-section A 4.4.2 of the Compliance Protocol for Wind Turbine Noise and met the required terms and conditions of the Approval.

23. Condition T is 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. This condition is also included to emphasize the precedence of the 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.

All other Terms and Conditions of the Approval remain the same.

This Notice shall constitute part of the approval issued under Approval No. 5460-98BPH8 dated June 10, 2013

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.

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:

- a. 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;
- b. 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:

1. The name of the appellant;
2. The address of the appellant;
3. The renewable energy approval number;
4. The date of the renewable energy approval;
5. The name of the Director;

6. 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, <i>Environmental Protection Act</i> Ministry of the Environment, Conservation and Parks 135 St. Clair Avenue West, 1st Floor Toronto, Ontario M4V 1P5
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*** 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) 326-5370 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 21st day of September,
2018

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

MZ/
c: District Manager, MECP Guelph
Jeff Hammond, Dufferin Wind Power Inc.