

AMENDMENT TO RENEWABLE ENERGY APPROVAL

NUMBER 6457-9L6QLC
Issue Date: September 7, 2022

Grand Valley Wind Farms Phase 3 Inc., as general partner for and on behalf of Grand Valley 2
Limited Partnership
2275 Upper Middle Rd. East
Unit #700
Oakville, Ontario
L6H 0C3

Site Location: Grand Valley Wind Farms – Phase 3
Concession Road 8 & 9
Lot Part of 30, Concession 8
Town of Grand River, County of Dufferin
L0N 1G0

You are hereby notified that I have amended Approval No. 6457-9L6QLC issued on October 15, 2014 for a Class 4 wind facility , as follows:

A. The Company address has been changed:

FROM: Grand Valley Wind Farms Phase 3 Inc., as general partner for and on behalf of Grand Valley 2
Limited Partnership
222 3rd Ave SW, Suite 900
Livingston Place, South Tower
Calgary, Alberta
T2P 0B4

TO: Grand Valley Wind Farms Phase 3 Inc., as general partner for and on behalf of Grand Valley 2
Limited Partnership
2275 Upper Middle Rd. East
Unit #700
Oakville, Ontario
L6H 0C3

B. The definition of "Application" in the Approval is deleted and replaced with the following:

11. "Application" means the application for a Renewable Energy Approval dated May 31, 2013 and signed by Hali Zigomanis, Environmental Manager, East, Veresen Inc. and all supporting documentation submitted with the application, including amended documentation submitted up to October 15, 2014; and as further amended by the application for a Renewable Energy Approval dated November 13, 2014, and signed by Jose Menendez, Vice President, Business Development (East), Grand Valley Wind Farms Phase 3 Inc., as general partner for and on behalf of Grand Valley 2 Limited Partnership, and all supporting documentation submitted with the application up to May 26, 2015; and as further amended by the application for an amendment to a Renewable Energy Approval dated September 11, 2015, and signed by Hali Martin, Environment Manager, Grand Valley Wind Farms Phase 3 Inc., as general partner for and on behalf of Grand Valley 2 Limited Partnership, and all supporting documentation submitted with the application, including amended documentation submitted up to December 14, 2015; and as further amended by the application or an amendment to a Renewable Energy Approval dated February 13, 2022, and signed by Dave Hayles, Operations Coordinator, Grand Valley Wind Farms Phase 3 Inc., as general partner for and on behalf of Grand Valley 2 Limited Partnership, and all supporting documentation submitted with the application, including amended documentation submitted up to the date this amendment is issued;

C. Condition S and the reason for the Condition are added to the Approval:

S – Testing of the Selected Two (2) Wind Turbine Generators

- S1. Subject to Condition S5 below, the Company may install a revised control system firmware manufactured by Siemens Gamesa Renewable Energy (SGRE) Inc. at two (2) wind turbine generators and operate the selected two (2) wind turbine generators for a testing period of twelve (12) months commencing on the day the Company provides written notice to the Director and the District Manager. At the end of the twelve (12) month testing period, the Company shall cease operating the selected two (2) wind turbine generators with the revised control system firmware. The Company shall identify the selected two (2) wind generators in the notice provided to the Director and District Manager.
- S2. By the end of the twelve (12) month period specified by Condition S1, the Company shall carry out four (4) Acoustic Audits – Emission to determine the acoustic effect of the changes on the two (2) selected wind turbine generators in accordance with the following:
- (1) The acoustic emission measurements shall be undertaken in accordance with the standard CAN/CSA Standard IEC-61400-11:13 Ed. 3.0;
 - (2) The hub height wind speed range shall be determined by the standard CAN/CSA Standard IEC-61400-11:13 Ed. 3.0;
 - (3) The acoustic emission measurements shall be performed by an Acoustical Consultant at the two (2) selected wind turbine generators;

- (4) Two (2) acoustic emission measurements shall be undertaken before and two (2) acoustic emission measurements shall be undertaken after installation of the revised control system firmware at the two (2) selected wind turbine generators;
 - (5) The four (4) acoustic emission measurements undertaken before and after the installation of the revised control system firmware shall be undertaken at four (4) different positions on each wind turbine generator with reference to Figure 3 of Standard CAN/CSA Standard IEC 61400-11:13 Ed 3.0; measurements are to be taken during downwind, upwind and crosswind conditions at positions 1, 3 and a location 90 degrees and 270 degrees from position 1;
 - (6) The effects of the revised control system firmware shall be documented in the Acoustic Audit Reports – Emission; and
 - (7) All four (4) acoustic emission measurements shall be conducted as close to each other in time as practically possible to minimize changes in the environment and their associated effect on the Sound Levels.
- S3. Within three (3) months of the completion of the Acoustic Audits - Emission described in Condition S2, the Company shall submit, to the Director and the District Manager, four (4) Acoustic Audit Reports-Emission prepared in accordance with standard CAN/CSA Standard IEC-61400-11:13 Ed. 3.0.
- S4. The Acoustic Audit Reports-Emission described in Condition S3 shall provide a summary of the acoustic emission measurement results, including the following items:
- (1) A comparison of Sound Power Levels and frequency spectra in octave bands for each wind speed and position as specified in Condition S2;
 - (2) A comparison of tonal audibility values for each wind speed and position as specified in Condition S2;
 - (3) A statement that the measured overall A-weighted Sound Power Levels of the selected two (2) wind turbine generators at the different wind speeds and positions specified in Condition S2 do not exceed the Sound Power Level (dBA) specified in the Siemens Gamesa Renewable Energy letter dated December 12, 2021 and included as Appendix B.1 to the Grand Valley Wind Farms Phase 3 Renewable Energy Approval Modification Report dated February 14, 2022 and prepared by Stantec Consulting Ltd.; and

- (4) A statement that the measured tonal audibility values of the selected two (2) wind turbine generators at the different wind speeds and positions specified in Condition S2 do not exceed the maximum 2.0 dB tonal audibility value stated in the Siemens Gamesa Renewable Energy acoustic emission specification document included as Appendix B.2 to the Grand Valley Wind Farms Phase 3 Renewable Energy Approval Modification Report dated February 14, 2022 and prepared by Stantec Consulting Ltd.

S5. If the Company does not provide the written notice described in Condition S1 within six (6) months of the date this amendment to the Approval is issued, Condition S ceases to apply.

All other terms and conditions remain the same.

The reason for the imposition of this term and condition is as follows:

16. Condition S is included to confirm that the operation of the selected two (2) wind turbine generators with a revised control system firmware manufactured by Siemens Gamesa Renewable Energy (SGRE) Inc. will comply with the Approval.

This Notice shall constitute part of the approval issued under Approval No. 6457-9L6QLC dated October 15, 2014

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 Ontario Land Tribunal and the Minister of the Environment, Conservation and Parks, require a hearing by the Tribunal.

In accordance with Section 47 of the *Environmental Bill of Rights*, 1993, the Minister of the Environment, Conservation and Parks 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:

Registrar*
Ontario Land Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5
OLT.Registrar@ontario.ca

and

The Minister of the Environment,
Conservation and Parks
777 Bay Street, 5th Floor
Toronto, Ontario
M7A 2J3

and

The Director
Section 47.5, *Environmental Protection Act*
Ministry of the Environment, Conservation
and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Ontario Land Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349 or 1 (866) 448-2248, or www.olt.gov.on.ca**

Under Section 142.1 of the *Environmental Protection Act*, residents of Ontario may require a hearing by the Ontario Land 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 <https://ero.ontario.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 7th day of September, 2022



Miroslav Ubovic, P.Eng.
Director
Section 47.5, *Environmental Protection Act*

MZ/

c: District Manager, MECP Guelph
Leslie Greener, Stantec Consulting Ltd.