

Power Plant Approval 24907-D02-2019

Appendix 1 to Decision 24907-D01-2019	October 25, 2019
Forty Mile Granlea Wind GP Inc. Suncor Forty Mile Wind Power Project	Proceeding 24907 Application 24907-A001

Forty Mile Granlea Wind GP Inc. (Suncor), a wholly owned subsidiary of Suncor Energy Inc., pursuant to Approval 23030-D02-2019,¹ is the operator of a power plant designated as the Suncor Forty Mile Wind Power Project, in the Bow Island area.

Suncor, by Application 24907-A001 registered September 17, 2019, applied to the Alberta Utilities Commission for approval to amend and operate the power plant.

Pursuant to Section 11 of the *Hydro and Electric Energy Act*, the Commission approved the application in Decision 24907-D01-2019,² and granted an approval to Suncor to amend and operate the power plant, subject to the provisions of the *Hydro and Electric Energy Act* and the *Alberta Utilities Commission Act*, any regulations made under the acts, any orders made under the acts, the Commission rules made pursuant to the *Alberta Utilities Commission Act*, and the following terms and conditions:

1. The power plant shall be located within the following sections:

Section	Township	Range	Meridian
15, 16, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 32, 34, 35	7	9	4
36	7	10	4
6, 7, 18, 19, 30, 31, 32	8	8	4
1, 2, 3, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 20, 21, 22, 23, 24, 25, 26, 28, 29, 30, 32, 33, 34, 35, 36	8	9	4
1, 2, 11, 15, 35, 36	8	10	4
5, 6, 7, 8, 17, 18, 19, 30, 31	9	8	4
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 29, 30, 31, 32, 35, 36	9	9	4
1, 2, 3, 4, 8, 9, 10, 11, 12, 13, 15, 16, 17, 20, 24, 25, 36	9	10	4

2. The power plant shall consist of 89 Siemens Gamesa SG4.5-145 wind turbines, each rated at 4.5 MW, with a total generating capability of 400.5 MW, and as further described in the application.

¹ Power Plant Approval 23030-D02-2019, Proceeding 23030, Application 23030-A001, May 16, 2019.

² Decision 24907-D01-2019: Forty Mile Granlea Wind GP Inc. – Suncor Forty Mile Wind Power Project Amendment, Proceeding 24907, Applications 24907-A001 to 24907-A002, October 25, 2019.

3. Each wind turbine shall be installed with its centre at the longitude and latitude coordinates specified in the application. If a turbine must be located more than 50 metres from the specified coordinates, Suncor must apply to the Commission for an amendment to this approval prior to construction.
4. The power plant shall also consist of a 34.5-kilovolt gathering system as described in the application and Application 23030-A001. The gathering system is to be used solely for collecting the electric energy generated by each turbine and transmitting that electric energy to the Alberta Interconnected Electric System.
5. The approval is subject to the following conditions which have been described in Decision 24907-D01-2019 and Decision 23030-D01-2019:
 - a. Suncor shall conduct post-construction comprehensive noise studies and an evaluation of low frequency noise at Receptor R98 under representative operating conditions, and in accordance with Rule 012: *Noise Control*. Suncor shall file all studies and reports relating to the post-construction comprehensive sound level (CSL) survey and low frequency noise evaluation with the Commission within one year of connecting the project to the Alberta Interconnected Electric System.
 - b. Suncor shall conduct post-construction comprehensive noise studies and an evaluation of low frequency noise at receptors R22 and R8 under representative operating conditions, in accordance with Rule 012. Suncor shall file all studies and reports pertaining to the post-construction CSL survey and low frequency noise evaluation with the Commission within one year of connecting the project to the Alberta Interconnected Electric System.
 - c. Suncor will abide by all of Alberta Environment and Parks (AEP)'s requirements, recommendations, and directions outlined in the AEP project-specific referral report and any additional commitments made in its responses to information requests from AEP.
 - d. The siting, construction and operation of the project's infrastructure will meet all of AEP's recommended minimum setbacks from wetlands and watercourses and wildlife species at risk habitat features for the project, unless AEP has agreed to a reduced setback and/or alternative mitigation.
 - e. If any changes are made to any infrastructure associated with the project, the construction schedule, or the proposed wildlife mitigation measures, Suncor will submit these changes to AEP for its further review to ensure wildlife and wildlife habitat are protected.
 - f. Suncor shall abide by all of the commitments and recommendations included in its final version of the environmental management plan developed for the project. Suncor shall implement all mitigation measures identified in this document.
 - g. Suncor shall submit an annual post-construction monitoring survey report to AEP and the Commission within 13 months of the project becoming operational, and on or before the same date every subsequent year for which AEP requires surveys pursuant to Subsection 3(3) of Rule 033.

- h. Suncor shall implement mitigation measures, in consultation with AEP, if (i) the results of the post-construction bat carcass monitoring program (using an AEP approved “fatality estimator”) indicate that mortalities exceed a per-turbine threshold determined by AEP; or if (ii) upon the direction of AEP, the estimated corrected rate of bat mortalities cumulatively in the local area, as defined by AEP, exceeds a threshold determined by AEP.
 - i. As part of its post-construction bat carcass surveys, Suncor, in consultation with AEP, shall also include any turbines that are located near potential roost sites, reservoirs and areas of foraging habitat that would have a higher risk of bat mortality. Turbines monitored under this requirement would not be counted towards the one third selected using the stratified random sample method.
 - j. Suncor shall use its best efforts to schedule non-emergency, regularly scheduled (e.g. annual or semi-annual) maintenance activity during the peak August period of migratory bat activity to reduce potential migratory bat mortalities.
 - k. Suncor will comply with current applicable reclamation standards at the time of decommissioning. If no legislative requirements pertaining to reclamation are in place at the time of decommissioning, Suncor will submit a reclamation plan to the Commission for approval.
 - l. Suncor will abide by any requirements, recommendations and directions provided by AEP, whether in the context of a working group or otherwise, including any additional monitoring and mitigation that AEP considers necessary to address cumulative effects occurring from two or more projects within the local area, as defined by AEP.
6. Suncor shall submit a construction progress report to the Commission in writing, once every six months, pursuant to Section 3 of the *Hydro and Electric Energy Regulation*. The first progress report shall be filed with the Commission six months from the date of issuance of this approval.
 7. Unless otherwise authorized by the Commission, construction of the power plant shall be completed by December 31, 2022.
 8. Suncor shall notify the Commission within 30 days of completing the power plant.
 9. Suncor shall obtain Commission approval prior to making any substantive changes to the power plant or substantially varying the design or specifications of the power plant from what was stated in the application or what the Commission has approved.
 10. This approval is not transferable unless approved by the Commission.

Approval 23030-D02-2019 is rescinded.

The Commission may cancel or suspend this approval, in whole or in part, in accordance with Section 41 of the *Hydro and Electric Energy Act*, or may review this approval, in whole or in part upon its own motion, or upon an application by an interested party, in accordance with Section 10 of the *Alberta Utilities Commission Act*.

The Commission may, within 30 days of the date of this approval and without notice, correct typographical, spelling and calculation errors and other similar types of errors and post the corrected approval on its website.

Alberta Utilities Commission

(original signed by)

Carolyn Hutniak
Commission Member