

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF SOUTH DAKOTA

IN THE MATTER OF THE
APPLICATION OF DEUEL HARVEST
WIND ENERGY LLC FOR A PERMIT
OF A WIND ENERGY FACILITY AND
A 345-KV TRANSMISSION LINE IN
DEUEL COUNTY, SOUTH DAKOTA,
FOR THE DEUEL HARVEST NORTH
WIND FARM PROJECT

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* **AFFIDAVIT OF MICHAEL**
* **SVEDEMAN PROVIDING NOTICE OF**
* **TURBINE ADJUSTMENTS UP TO 250**
* **FEET**
*
* **EL18-053**
*

STATE OF COLORADO)
) SS.
COUNTY OF DENVER)

I, Michael Svedeman, being first duly sworn on oath, depose and state as follows:


1. I am a Manager of Project Development for Invenergy LLC, which is assisting Deuel Harvest Wind Energy LLC (“Deuel Harvest”) in the development of the Deuel Harvest North Wind Farm Project (“Project”). I have the authority to provide this affidavit on behalf of Deuel Harvest.
2. I am providing this Affidavit pursuant to paragraph 22 of the Permit Conditions approved by the South Dakota Public Utilities Commission (“Commission”) and included as Attachment A to its May 30, 2019 Final Decision and Order Granting Permit to Construct Facilities; Notice of Entry (“Order”) in the above-referenced docket.
3. Deuel Harvest has determined that seven (7) additional turbine adjustments within 250 feet from the locations approved by the Commission are needed for the Project. Maps showing the turbine locations approved by the Commission and the current turbine locations are attached hereto as **Exhibit A**. **Exhibit A** contains an updated Project constraints map and individual turbine maps.
4. A summary of the modifications is provided below:¹
 - A. Turbine 28 (ORIGINAL-T12) has been adjusted 40 feet to the south to ensure setback compliance upon receipt of detailed survey work.

¹ The turbine ID numbers used in this filing are the numbers that are being used during Project construction (e.g., “Turbine 28”). The “Original” turbine ID numbers were those used during Project development (e.g., “ORIGINAL-T12”). A Turbine ID Key is attached as **Exhibit E**. The receptor ID numbers remain unchanged from those used in Exhibit A17-1 (Updated Pre-Construction Wind Turbine Noise Analysis) and Exhibit A18-1 (Updated Shadow Flicker Analysis).

- B. Turbine 35 (ORIGINAL-T35) has been adjusted 30 feet to the northwest to avoid permanent impact to wetland feature from delineations.
 - C. Turbine 46 (ORIGINAL-T48) has been adjusted 29 feet to the west to ensure setback compliance upon receipt of detailed survey work.
 - D. Turbine 57 (ORIGINAL-T60) has been adjusted 191 feet to the west to avoid potential impact to cultural resources.
 - E. Turbine 74 (ORIGINAL-T80) has been adjusted 27 feet to the north to ensure setback compliance upon receipt of detailed survey work.
 - F. Turbine 78 (ORIGINAL-T84) has been adjusted 42 feet to the south to ensure setback compliance upon receipt of detailed survey work.
 - G. Turbine 84 (ORIGINAL-T85) has been adjusted 152 feet to the south to ensure setback compliance upon receipt of detailed survey work.
5. **Exhibit A** identifies the locations of environmental avoidance areas, including cultural resources and wetlands, in relation to the Project adjustments. In addition, **Exhibit B** provides a chart showing the distances of the turbines from residences, property lines, and roads. As shown in **Exhibits A and B**, the turbine adjustments comply with county and state setback requirements, cultural resource impacts and documented habitats for listed species are avoided, and wetland impacts are avoided or are in compliance with applicable U.S. Army Corps of Engineers regulations.
6. The turbine adjustments comply with the specified noise and shadow flicker requirements set forth in paragraphs 26 and 40 of the Permit Conditions. Spreadsheets providing the updated noise and shadow flicker modeling results for the entire Project are attached as **Exhibit C** and **Exhibit D**, respectively.
7. All modifications are located on land under lease/easement for the Project.
8. With respect to the Project, including the adjustments described herein, Deuel Harvest will comply with the Commission's Order, and all other applicable regulations and requirements.

FURTHER AFFIANT SAYETH NOT.

Dated this 13 day of APRIL, 2020.


Michael Svedeman

[signature page continues]

State of Colorado
County of Denver

Subscribed and sworn (or affirmed) to before me on this 13 day of April, in the year 2020, by Michael Svedeman.

Witness my hand and official seal

(Seal)
My Commission Expires: 5-14-22

Joelle Billette
Notary Public

JOELLEN BILLOTTE
Notary Public
State of Colorado
Notary ID # 20184020439
My Commission Expires 05-14-2022