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November 30, 2020

*Via Electronic Mail*

Mr. Brian L. Johnson  
Special Assistant Attorney General  
North Dakota Public Service Commission  
600 E. Boulevard, Dept. 408  
Bismarck, ND 58505-0480  
[brljohnson@nd.gov](mailto:brljohnson@nd.gov)  
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In re: Brady Wind, LLC – Case No. PU-15-690  
Brady Wind II, LLC – Case No. PU-16-042  
Oliver Wind III, LLC – Case No. PU-16-123  
Emmons-Logan Wind, LLC – Case No. PU-18-280  
ADLS Information Request  
Our File Nos. 035218-000046 & 035218-000064

Dear Mr. Johnson:

On August 12, 2020 Brady Wind, LLC, Brady Wind II, LLC, Oliver Wind III, LLC and Emmons-Logan Wind, LLC (collectively, the “Entities”) filed a consolidated response to your August 2, 2020 Aircraft Detection Lighting System (ADLS) Information Request. Enclosed for filing in the above-referenced cases is a supplement to the Entities’ August 12 filing.

Please do not hesitate to contact me with any additional questions.

Sincerely,

**CROWLEY FLECK PLLP**



Casey A. Furey

CAF/lh

Enc.

cc: Tracy Davis (via email)

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187 PU-18-280 Filed 11/30/2020 Pages: 4  
Supplemental response to 2 Aug. 2020 request for information re ADLS  
174 PU-16-123 Filed 11/30/2020 Pages: 4  
Supplemental response to 2 Aug. 2020 request for information re ADLS  
152 PU-16-42 Filed 11/30/2020 Pages: 4  
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201 PU-15-690 Filed 11/30/2020 Pages: 4  
Supplemental response to 2 Aug. 2020 request for information re ADLS

**STATE OF NORTH DAKOTA  
PUBLIC SERVICE COMMISSION**

**Brady Wind, LLC  
Brady Wind Energy Center – Stark County  
Siting Application**

**Case No. PU-15-690**

**Brady Wind II, LLC  
Brady II Wind Energy Center – Stark & Hettinger Counties  
Siting Application**

**Case No. PU-16-042**

**Oliver Wind III, LLC  
Oliver III Wind Energy Center – Oliver & Morton Counties  
Siting Application**

**Case No. PU-16-123**

**Emmons-Logan Wind, LLC  
Emmons-Logan Wind Energy Center – Emmons & Logan Counties  
Siting Application**

**Case No. PU-18-280**

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**UPDATED RESPONSE TO DATA REQUEST**

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The following information is an update to the Consolidated Response to Data Request provided to the Commission on August 12, 2020 in the above-referenced proceedings by the Brady Wind Energy Center, Brady II Wind Energy Center, Oliver III Wind Energy Center, and the Emmons-Logan Wind Energy Center (collectively, the “Wind Facilities”).<sup>1</sup>

Since installation of the Aircraft Detection Lighting System (ADLS), the Wind Facilities have continued to work with the ADLS manufacturer, DeTect, Inc. (DeTect), to fine tune and improve ADLS system performance, by identifying site-specific conditions and features that have an impact on the amount of time the lights are on and off. Notable improvements include the development and implementation of filters and masking features that enable the ADLS to recognize road traffic and farming operations, so the turbine lights are not activated by such activity.

Specifically, in early August, the Wind Facilities and the DeTect team implemented a tractor filter for the ADLS at the Wind Facilities, which was designed to identify when a potential trigger event was caused by a tractor or other agricultural equipment (*i.e.*, not an aircraft) and the turbine lights could safely remain off. Implementing this filter at the Wind Facilities resulted in a decrease in the amount of time the lights were on during night hours in August and September 2020. Please see the tables provided for each Wind Facility below.

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<sup>1</sup> The Wind Facilities are owned and operated by the following companies, respectively: Brady Wind, LLC; Brady Wind II, LLC; Oliver Wind III, LLC; and Emmons-Logan Wind, LLC which are indirect, wholly owned subsidiaries of NextEra Energy Resources, LLC.

The Wind Facilities experienced an increase in the amount of time that the lights were on during October 2020. From the Wind Facilities’ and DeTect’s analysis, it appears that this was largely due to seasonal bird migration activity in the areas of the Wind Facilities, which appeared to cause the lights to be on more frequently. As part of the Wind Facilities’ ongoing efforts to reduce the number of false positives that activate traditional turbine aircraft avoidance lighting, the Wind Facilities are working with DeTect to develop and implement an avian filter that will enable the ADLS system to detect flocks of birds in the future and safely decrease the amount of time the turbine lights are on due to bird activity. Although significant bird migration activity is nearing an end this year, the Wind Facilities expect to implement these avian filters before the spring of 2021, when a similar level of migration activity is likely.

Please see below for the average percentages of time that the turbine lights have been both off and on at each Wind Facility during nighttime hours, on a monthly basis, updated to include data for August through mid-November 2020.

**Brady Wind Energy Center and Brady II Wind Energy Center**

<b>Month</b>	<b>Average % of Nighttime Hours Turbine Lights Are Off</b>	<b>Average % of Nighttime Hours Turbine Lights Are On</b>
January 2020	46.26%	53.74%
February 2020	46.80%	53.20%
March 2020	35.24%	64.76%
April 2020	34.35%	65.65%
May 2020	37.44%	62.56%
June 2020	78.73%	21.27%
July 2020	69.96%	30.04%
August 2020	81.52%	18.48%
September 2020	87.07%	12.93%
October 2020	71.20%	28.80%
November 1-15, 2020	77.76%	22.24%

**Oliver III Wind Energy Center**

<b>Month</b>	<b>Average % of Nighttime Hours Turbine Lights Are Off</b>	<b>Average % of Nighttime Hours Turbine Lights Are On</b>
January 2020	34.17%	65.83%
February 2020	43.10%	56.90%
March 2020	38.56%	61.44%
April 2020	28.56%	71.44%
May 2020	21.33%	78.67%
June 2020	65.64%	34.36%
July 2020	63.95%	36.05%
August 2020	83.92%	16.08%
September 2020	84.03%	15.97%
October 2020	65.29%	34.71%
November 1-15, 2020	76.20%	23.80%

**Emmons-Logan Wind Energy Center**

<b>Month</b>	<b>Average % of Nighttime Hours Turbine Lights Are Off</b>	<b>Average % of Nighttime Hours Turbine Lights Are On</b>
February 2020	62.98%	37.02%
March 2020	41.72%	58.28%
April 2020	41.33%	58.67%
May 2020	64.68%	35.32%
June 2020	69.19%	30.81%
July 2020	63.90%	36.10%
August 2020	84.86%	15.14%
September 2020	90.57%	9.43%
October 2020	66.34%	33.66%
November 1-15, 2020	68.62%	31.38%

*Information contained herein is provided by Brady Wind, LLC, Brady Wind II, LLC, Oliver Wind III, LLC, and Emmons-Logan Wind, LLC, with input from DeTect, Inc.*