

**BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF SOUTH DAKOTA**

**IN THE MATTER OF THE)
APPLICATION OF CROWNED)
RIDGE WIND, LLC FOR A) EL-19-003
PERMIT OF A WIND ENERGY)
FACILITY IN GRANT)
AND CODINGTON COUNTIES)**

**IN THE MATTER OF THE)
STAFF’S PETITION FOR)
A SHOW CAUSE ORDER) EL20-002
REGARDING)
CROWNED RIDGE WIND, LLC)**

WEEKLY REPORT ON AIRCRAFT DETECTION LIGHT SYSTEM

On May 26, 2020, in Docket Nos. EL19-003 and EL20-002 Crowned Ridge Wind, LLC (“Crowned Ridge”) committed to file weekly reports that (1) show the same information in Table 1 of the May 26, 2020 submittal for the previous week; and (2) explain what adjustments and filters were applied to the Aircraft Detection Light System (“ADLS”) in that week.

This report provides the weekly table for June 22-28, 2020 and explains adjustments and filters applied in the past week.

TABLE 1 FOR WEEK OF JUNE 22, 2020 TO JUNE 28, 2020

Sunset	Sunrise	Total night hours	Lights on hours during night	Lights on night percentage	Hours warning lights were on due to aircraft in the area
6/22/2020 20:18	6/23/2020 04:41	8.38	0.58	6.89	0.58
6/23/2020 20:17	6/24/2020 04:41	8.39	1.73	20.58	1.73
6/24/2020 20:18	6/25/2020 04:41	8.39	1.42	16.96	1.42
6/25/2020 20:18	6/26/2020 04:42	8.40	3.24	38.52	2.93
6/26/2020 20:18	6/27/2020 04:42	8.41	0.93	11.08	0.93
6/27/2020 20:18	6/28/2020 04:43	8.41	1.39	16.51	1.39
6/28/2020 20:18	6/29/2020 04:43	8.42	8.42	100	N/A

Adjustments, Filters, and Corrective Action Taken the Week of June 22-28, 2020

During the week of June 22-28, 2020, work continued on developing a more robust false positive filter. The filter is being examined in the context of aircraft flight data and across several projects in an effort to ensure that aircraft will not be inadvertently dropped as activating the warning lights when the filter gets implemented on or about July 10, 2020.

The ADLS is designed with safety at the forefront and there are other reasons that can trigger the lights to be turned on, and during the week of June 22-28, 2020 there were two instances in which safeguards triggered the warning lights to be activated for reasons other than aircraft being present in the project area. On the night of June 25-26, the ADLS detected rain and this triggered the lights to turn on. On the night of June 28-29, the warning lights were activated for the entire night due to an electrical interruption impacting power to the radars. The electrical issue has been resolved, and the ADLS is operational.

Sincerely,

July 1, 2020

/s/ Miles Schumacher

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