



500 West Russell Street
Sioux Falls, South Dakota 57101-0988

August 13, 2020

—VIA ELECTRONIC FILING—

Ms. Patricia Van Gerpen
Executive Director
South Dakota Public Utilities Commission
State Capitol Building
500 East Capitol Avenue
Pierre, South Dakota 57501-5070

RE: SITE PERMIT CONDITION NO. 29 – REVISED SHADOW FLICKER & SOUND ANALYSES
APPLICATION BY DAKOTA RANGE I, LLC & DAKOTA RANGE II, LLC FOR A PERMIT OF A WIND ENERGY FACILITY IN GRANT COUNTY & CODINGTON COUNTY, SOUTH DAKOTA, FOR THE DAKOTA RANGE WIND FARM
DOCKET NO. EL18-003

Dear Ms. Van Gerpen:

Northern States Power Company, doing business as Xcel Energy (NSP or the Company), submits this revised Shadow Flicker Analysis filing to the Commission for the 302.4 MW wind energy conversion facility located in Grant & Codington Counties South Dakota known as the Dakota Range I & II Wind Energy Facility.

On July 2, 2020, the Company submitted our Pre-Construction filing containing the following: Pre-Construction Design, Layout, and Plans; Sound Level Analysis; and Shadow Flicker Analysis. On July 31, 2020, the Company submitted a filing updating the Project Map, Sound Analysis, and Shadow Flicker Analysis to incorporate changes made related to seven turbines.

It has come to our attention that the Shadow Flicker Analysis results we provided on July 31, 2020 were partially incorrect. Specifically, the output in the tabular data did not accurately reflect the predicted shadow flicker for the project. The figures provided in the report, however, did not have this issue and are correct. The updated report is provided as Attachment A to this filing. It includes the corrected tabular data, and we note that the results continue to comply with Permit Condition 29(c).

We also note that the results now show seven receptors with shadow flicker over 30 hours per year. As shown in the table below, all of these receptors are participants, and the shadow flicker results for these receptors are largely the same as that included in the Updated Shadow Flicker Analysis submitted with the Affidavit of Brenna Gunderson on November 30, 2018.

Receptor	Status	Nov. 2018 Study Results (hours)	2020 Results Without Alternates (hours)	2020 Results With Alternates (hours)
1787	Participating	35.56	34.83	34.83
1791	Participating	49.39	49.13	49.13
1794	Participating	22.46	21.83	32.70
1914	Participating	44.01	44.02	44.02
1915	Participating	54.08	53.28	53.28
2153	Participating	44.55	44.43	44.43
2260	Participating	32.53	32.17	32.17

Additionally, we provide a corrected Sound Analysis as Attachment B to this filing. Attachment B corrects a minor discrepancy in our July 31, 2020. The filing listed receptor 2260 as non-participating; Attachment B corrects the status to participating.

If you have any questions regarding this filing, please contact Amber Hedlund at (612) 337-2268 or amber.r.hedlund@xcelenergy.com or me at (605) 339-8350 or steven.t.kolbeck@xcelenergy.com.

Sincerely,

/s/

STEVEN T. KOLBECK
PRINCIPAL MANAGER – SOUTH DAKOTA

Enclosures