

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

IN THE MATTER OF THE APPLICATION) BY CROWNED RIDGE WIND II, LLC FOR) A PERMIT OF A WIND ENERGY) FACILITY IN DEUEL, GRANT) AND CODINGTON COUNTIES)	EL19-027 APPLICANT’S WITNESS AND EXHIBIT LIST
--	---

COMES NOW, Crowned Ridge Wind II, LLC (Applicant) and hereby submits its Witness List and Exhibit List in preparation for the evidentiary hearing in the above-captioned docket.

Applicant intends to call the following witness in the following order:

- Mike MaRous
- Tyler Wilhelm
- Daryl Hart
- Mark Thompson
- Jay Haley
- Richard Lampeter
- Robert McCunney
- Chris Ollson
- Sarah Sappington

Applicant intends to offer the following exhibits:

Proposed Exhibit Number	Date	Description
A1	7/09/19	Crowned Ridge Wind Farm’s Application, including Updated Application Affidavit of Daryl Hart 9/12/19
A1-A	7/09/19	Appendix A - Figures Figure 1 – Project Area Figure 2 – Public Land and Facilities Figure 3a and 3b – Project Maps

		<p>Figure 4a – Typical Wind Turbine Diagram</p> <p>Figure 4b – Typical Wind Turbine Diagram</p> <p>Figure 5 – Typical Turbine Construction Site Layout</p> <p>Figure 6 – Environmental Constraints</p> <p>Figure 7 – Constraints Map</p> <p>Figure 8 – Topographic Map</p> <p>Figure 9a – Surficial Geology</p> <p>Figure 9b – Geology Cross Sections</p> <p>Figure 10 – Bedrock Geology</p> <p>Figure 11 – Soil Types</p> <p>Figure 12 – Water Resources</p> <p>Figure 13 – Land Use</p> <p>Figure 14 – Common Sound Levels in the Environment</p>
A1-B	7/09/19	Appendix B – Agency Coordination Dates and Correspondence
A1-C	7/09/19	Appendix C – Aquatic Resources Survey Report
A1-D	7/09/19	Appendix D – Bat Acoustic Survey Report
A1-E	7/09/19	Appendix E – Bat Habitat Assessment Report
A1-F	7/09/19	Appendix F – Dakota Skipper-Poweshiek Skipperling Survey Report
A1-G	7/09/19	Appendix G – Raptor Nest Survey Report
A1-H	7/09/19	Appendix H – Avian Use Survey Report
A1-I	7/09/19	Appendix I – Sound Level Modeling Report (See Updated Appendices Filed on 9/20/19)
A1-J	7/09/19	Appendix J – Shadow Flicker Modeling Report (See Updated Appendices Filed on 9/20/19)
A1-K	7/09/19	Appendix K – County Conditional Use Permits
A1-L	7/09/19	Appendix L – Property Value Effects Studies
A1-M	7/09/19	Appendix M – Telecommunication Studies
A1-N	7/09/19	Appendix N – Decommissioning Plan
A1-O	7/09/19	Appendix O – Cultural Confidential
A2	7/09/19	Direct Testimony of Jay Haley
A3	7/09/19	Direct Testimony of Sarah Sappington, Updated to include page numbers in 10/21/19
A4	7/09/19	Direct Testimony of Mark Thompson
A4-1	7/09/19	Exhibit MT-1: Resume of Mark Thompson
A5	7/09/19	Direct Testimony of Tyler Wilhelm
A5-1	7/09/19	Exhibit TW-1: Resume of Tyler Wilhelm
A6	7/09/19	Direct Testimony of Daryl Hart
A6-1	7/09/19	Exhibit DH-1: Resume of Daryl Hart
A6-2	7/09/19	Exhibit DH-2: Tax Revenues
A7	7/09/19	Direct Testimony and Exhibit of Richard Lampeter
A7-1	7/09/19	Exhibit RL-1: Resume of Richard Lampeter

A7-2	7/09/19	Exhibit RL-2: Proposed Post Construction Sound Protocol
A7-3	7/09/19	Exhibit RL-3: Low Frequency Noise and Infrasound from Wind Turbines
A8	7/11/19	Crowned Ridge Wind, LLC's Letter regarding Updates to Original Application
A9	7/29/19	Crowned Ridge Wind, LLC's Letter regarding Dropped and Moved Turbines
A10	7/29/19	Crowned Ridge Letter, Notice Letter, and Affidavit on Notice of Public Input Hearing
A11	9/11/19	PUC Affidavits of Publication
A12	9/20/19	Supplemental Testimony of Chris Ollson
A12-1	9/20/19	Exhibit CO-S-1: Curriculum Vitae
A12-2	9/20/19	Exhibit CO-S-2: Exposure to Wind Turbine Noise: Perceptual Responses and Reported Health Effects
A12-3	9/20/19	Exhibit CO-S-3: Effects of Wind Turbine Noise on Self-Reported and Objective Measures of Sleep
A12-4	9/20/19	Exhibit CO-S-4: Before-After Field Study of Effects of Wind Turbine Noise on Polysomnographic Sleep Parameters
A12-5	9/20/19	Exhibit CO-S-5: Impact of Wind Turbine Sound on Annoyance, Self-Reported Sleep Disturbance and Psychological Distress
A12-6	9/20/19	Exhibit CO-S-6: The Association Between Self-Reported and Objective Measures of Health and Aggregate Annoyance Scores Toward Wind Turbine Installations
A12-7	9/20/19	Exhibit CO-S-7: Health-Based Audible Noise Guidelines Account for Infrasound and Low-Frequency Noise Produced by Wind Turbines
A12-8	9/20/19	Exhibit CO-S-8: Low-Frequency Noise Incl. Infrasound From Wind Turbines and Other Sources
A12-9	9/20/19	Exhibit CO-S-9: An Assessment of Quality of Life Using the WHOQOL-BREF Among Participants Living in the Vicinity of Wind Turbines
A12-10	9/20/19	Exhibit CO-S-10: Monitoring Annoyance and Stress Effects of Wind Turbines on Nearby Residents: A Comparison of U.S. and European Samples
A12-11	9/20/19	Exhibit CO-S-11: Health Effects and Wind Turbines: A Review of the Literature
A12-12	9/20/19	Exhibit CO-S-12: Wind Turbines and Photosensitive Epilepsy
A12-13	9/20/19	Exhibit CO-S-13: Wind Turbines, Flicker, and Photosensitive Epilepsy: Characterizing the Flashing That May Precipitate Seizures and Optimizing Guidelines to Prevent Them

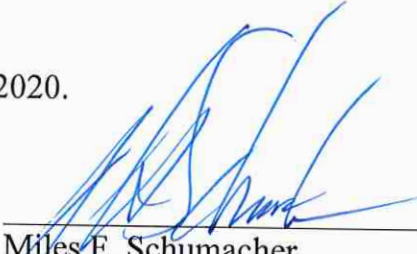
A12-14	9/20/19	Exhibit CO-S-14: Potential of Wind Turbines to Elicit Seizures Under Various Meteorological Conditions
A12-15	9/20/19	Exhibit CO-S-15: Update of UK Shadow Flicker Evidence Base - Department of Energy and Climate Change
A12-16	9/20/19	Exhibit CO-S-16: Information on How to Identify and Assess Optical Immissions Wind Turbines
A13	9/20/19	Supplemental Testimony of Daryl Hart
A13-1	9/20/19	Exhibit DH-S-1: Generator Interconnection Agreement
A13-2	9/20/19	Exhibit DH-S-2: Maps depicting 200 MW array and potential deferral of 100 MWs
A13-3	9/20/19	Exhibit DH-S-3: Explanation of Turbine Status Change (Primary and Alternatives)
A14	9/20/19	Supplemental Testimony of Jay Haley
A14-1	9/20/19	Exhibit JH-S-1: Final Report Crowned Ridge II Wind Farm Sound Study Codington, Deuel and Grant Counties, SD
A14-2	9/20/19	Exhibit JH-S-2: Final Report Crowned Ridge II Wind Farm Shadow Flicker Study Codington, Deuel and Grant Counties, SD
A14-3	9/20/19	Exhibit JH-S-3: Crowned Ridge II 200 MW Sound Level Tabular Results Sorted by Receptor ID Realistic case sound results at land parcel
A14-4	9/20/19	Exhibit JH-S-4: Crowned Ridge II 200 MW Shadow Flicker Tabular Results Sorted by Receptor ID Realistic case shadow results at occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Codington County
A15	9/20/19	Supplemental Testimony of Mark Thompson
A16	9/20/19	Supplemental Testimony of Michael Marous
A16-1	9/20/19	Exhibit MM-S-1: Market Impact Analysis
A17	9/20/19	Supplemental Testimony of Robert McCunney
A17-1	9/20/19	Exhibit RM-S-1: Curriculum Vitae
A17-2	9/20/19	Exhibit RM-S-2: Exposure to Wind Turbine Noise: Perceptual Responses and Reported Health Effects
A17-3	9/20/19	Exhibit RM-S-3: Wind Turbines and Health - A Critical Review of the Scientific Literature
A17-4	9/20/19	Exhibit RM-S-4: Health Effects Related to Wind Turbine Sound, Including Low-Frequency Sound and Infrasound
A17-5	9/20/19	Exhibit RM-S-5: Measurement and Level of Infrasound From Wind Farms and Other Sources
A17-6	9/20/19	Exhibit RM-S-6: Low Frequency Noise and Infrasound From Wind Turbines
A17-7	9/20/19	Exhibit RM-S-7: Potential of Wind Turbines to Elicit Seizures

		Under Various Meteorological Conditions
A17-8	9/20/19	Exhibit RM-S-8: Photic- and Pattern-induced Seizures: Expert Consensus of the Epilepsy Foundation of America Working Group
A18	9/20/19	Supplemental Testimony of Sarah Sappington
A18-1	9/20/19	Exhibit SS-S-1: South Dakota State Historical Society's Letter to SWCA Environmental Consultants regarding Archaeological and Traditional Cultural Property Inventory, Crowned Ridge II Wind Turbine Array
A18-2	9/20/19	Exhibit SS-S-2: South Dakota State Historical Society's Letter to SWCA Environmental Consultants regarding Architectural Resources Assessment - Location: Multiple Counties
A19	9/20/19	Supplemental Testimony of Tyler Wilhelm
A19-1	9/20/19	Exhibit TW-S-1: Deuel County Ordinance B2004-01-23B
A19-2	9/20/19	Exhibit TW-S-2: Map Land Status with additional roads and other landmarks
A19-3	9/20/19	Exhibit TW-S-3: Grant County Ordinance 2016-01C
A19-4	9/20/19	Exhibit TW-S-4: List of Primary and Alternative Turbine Locations and Dropped Turbines
A20	1/08/20	Rebuttal Testimony of Christopher Ollson
A21	1/08/20	Rebuttal Testimony of Jay Haley
A21-1	1/08/20	Exhibit JH-R-1 Sound modelled with Hessler and CRW proposal
A21-2	1/08/20	Exhibit JH-R-2 Shadow Flicker modelled with Hessler and CRW proposal
A21-3	1/08/20	Exhibit JH-R-3 Intervener results with Hessler and CRW proposal
A22	1/08/20	Rebuttal Testimony of Michael MaRous
A23	1/08/20	Rebuttal Testimony of Richard Lampeter
A24	1/08/20	Rebuttal Testimony of Sarah Sappington
A25	1/08/20	Rebuttal Testimony of Mark Thompson
A26	1/08/20	Rebuttal Testimony of Tyler Wilhelm
A27	1/10/20	Supplemental Response to Intervener IR 2-15
A27-1	1/10/20	Attachment 1 Map – Primary, alternates, and safe harbor turbines under Original Application
A27-2	1/10/20	Attachment 2 Map – Primary, alternates, and safe harbor turbines under CRW's adoption of Hessler proposal using arrays for the 200 MWs with the deferral of 100 MWs

Applicant reserves the right to file additional exhibits when exhibits and lists are due if necessary.

In addition, Applicant reserves the right to introduce additional exhibits and witnesses necessary to rebut evidence presented by any other party in this docket or for impeachment and other legally permissible purposes. All Applicant exhibits are or will be available electronically in the docket.

Dated this 22nd day of January, 2020.



Miles F. Schumacher
Attorneys for Applicant
Lynn, Jackson, Shultz & Lebrun, PC
110 N. Minnesota Ave., Suite 400
Sioux Falls, SD 57104