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**EL18-026 - In the Matter of the Application by Prevailing Wind Park, LLC for a Permit of a Wind Energy Facility in Bon Homme County, Charles Mix County and Hutchinson County, South Dakota, for the Prevailing Wind Park Project**

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**Pre-filed Testimonies and Exhibits; Supplemental Testimonies and Exhibits; Disclosure of Lay Witnesses; and Rebuttal Testimonies and Exhibits**

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**Prevailing Wind Park, LLC**

- 05/30/18 - Direct Testimony and Exhibits
  - Pre-Filed Direct Testimony of James Damon
    - Exhibit 1 - Resume
  - Pre-Filed Direct Testimony of Bridget Canty
    - Exhibit 1 - Resume
  - Pre-Filed Direct Testimony of Keith Thorstad
    - Exhibit 1 - Resume
  - Pre-Filed Direct Testimony of Aaron Anderson
    - Exhibit 1 - Curriculum Vitae
  - Pre-Filed Direct Testimony of Chris Howell
    - Exhibit 1 - Curriculum Vitae
- 08/10/18 - Prevailing Wind Park, LLC's Letter regarding Supplemental Testimonies and Exhibits
  - Bridget Canty's Supplemental Direct Testimony
    - Exhibit 1 - NTIA Correspondence regarding the Project, Dated June 7, 2018
  - Dr. Mark Roberts Supplemental Direct Testimony
    - Exhibit 1 - Statement of Qualifications
    - Exhibit 2 - Australian National Health and Medical Research Council (2010) - Wind Turbines and Health: A Rapid Review of the Evidence
    - Exhibit 2a - Australian National Health and Medical Research Council (2014) - Review of Additional Evidence for NHMRC Information Paper - Evidence on Wind Farms and Human Health - Final Report
    - Exhibit 2b - Australian National Health and Medical Research Council (2015) - NHMRC Statement: Evidence on Wind Farms and Human Health
    - Exhibit 2c - Australian National Health and Medical Research Council (2015) - Systematic Review of the Human Health Effects of Wind Farms
    - Exhibit 3 - French National Agency for Food Safety, Environment and Labor 100 ("ANSES") (2017) - ANSES Opinion regarding the Expert Appraisal on the "Assessment of the Health Effects of Low-Frequency Sounds and Infrasonds from Wind Farms"
    - Exhibit 4 - Wisconsin Wind Siting Council (2014) - Wind Turbine Siting - Health Review and Wind Siting Policy Update
    - Exhibit 5 - Joseph Rand and Ben Hoen (2017) - Thirty Years of North American Wind Energy Acceptance Research - What have We Learned? Energy Analysis and Environmental Impacts Division, Lawrence Berkeley National Laboratory, Electricity Markets and Policy Group
    - Exhibit 6 - Public Service Commission of Wisconsin (2015) - Review of Studies and Literature Relating to Wind Turbines and Human Health - Prepared for the Wisconsin State Legislature
    - Exhibit 7 - Massachusetts Departments of Environmental Protection and Public Health (2012) - Wind Turbine Health Impact Study - Report of the Independent Expert Panel
    - Exhibit 8 - Letter, Kim Malsam-Rysdon, Secretary of Health, South Dakota Department of Health (Oct. 13, 2017) - In the Matter of the Application by Crocker Wind Farm, LLC for a Permit of a Wind Energy Facility and a 345 kV 118 Transmission Line in Clark County, South Dakota, for Crocker Wind Farm - Docket No. EL17-055
  - Michael MaRous' Supplemental Direct Testimony
    - Exhibit 1 - Statement of Qualifications & August 10, 2018, Market Impact Analysis

- Exhibit 2 - Brian Guerin, Jason Moore, Jamie Stata, and Scott Bradfield (2012) - Impact of Industrial Wind Turbines on Residential Property Assessment in Ontario - 2012 Assessment Base Year Study - Municipal Property Assessment Corporation
- Exhibit 3 - Jason Moore, Jamie Stata, and Scott Bradfield (2016) - Impact of Industrial Wind Turbines on Residential Property Assessment in Ontario - 2016 Assessment Base Year Study. Municipal Property Assessment Corporation
- Exhibit 4 - Corey Lang and James Opaluch (2013) - Effects of Wind Turbines on Property Values in Rhode Island - Environmental and Natural Resource Economics, University of Rhode Island
- Exhibit 5 - Richard J. Vyn and Ryan M. McCullough (2013) - The Effects of Wind Turbines on Property Values in Ontario - Does Public Perception Match Empirical Evidence? University of Guelph, Canada
- Exhibit 6 - Carol Atkinson-Palombo and Ben Hoen (2014) - Relationship between Wind Turbines and Residential Property Values in Massachusetts. University of Connecticut and Lawrence Berkeley National Laboratory
- Exhibit 7 - Surrebuttal Testimony of David Lawrence on Behalf of the Staff of the South Dakota Public Utilities Commission, In Re the Matter of the Application by Dakota Range I, LLC and Dakota Range II, LLC for a Permit of a Wind Energy Facility in Grant County and Codington County, South Dakota, for the Dakota Range Wind Project - Docket No. EL 18-003
- Daniel Pardo's Supplemental Direct Testimony
  - Exhibit 1 - Statement of Qualifications
  - Exhibit 2 - Decommissioning Cost Analysis
- Peter Pawlowski's Supplemental Direct Testimony
  - Exhibit 1 - Resume
  - Exhibit 2 - Example of a Federal Aviation Administration ("FAA") Determination of No Hazard for a Project Turbine Location
- Certificate of Service

#### Staff

- 09/10/18 - Staff's Letter regarding Staff's Testimonies and Exhibits
  - Direct Testimony of David M. Hessler
    - Exhibit\_DMH-1 - Resume
  - Direct Testimony of Darren Kearney
    - Exhibit\_DK-1 - Resume
    - Exhibit\_DK-2 - Prevailing Wind Park, LLC's Responses to Staff Data Requests
      - Exhibit\_DK-2 - Prevailing Wind Park, LLC's Responses to Staff Data Requests Confidential (not available to the public)
    - Exhibit\_DK-3 - Intervenor's Responses to Staff Data Requests
    - Exhibit\_DK-4 - South Dakota Department of Health Letter
  - Direct Testimony of David Lawrence
    - Exhibit\_DAL-1 - Qualification & Resume
    - Exhibit\_DAL-2 - Brookings County Market Research
  - Certificate of Service

#### Intervenors

- Reece M. Almond, Davenport, Evans, Hurwitz & Smith LLP - Representing: Gregg C. Hubner, Marsha Hubner, Paul M. Schoenfelder and Lisa A. Schoenfelder
  - 09/10/18 - Intervenors' Disclosure of Lay Witnesses
  - 9/10/18 - Pre-filed Testimony of Richard R. James
    - Exhibit 1 - Bio Materials
    - Exhibit 2 - Noise: Windfarms
    - Exhibit 3 - A Possible Criterion for Wind Farms
    - Exhibit 4 - A Theory to Explain Some Physiological Effects of the Infrasonic Emissions at Some Wind Farm Sites
    - Exhibit 5 - Summary of Wind Turbine Blade Pass Frequency and Effects
    - Exhibit 6 - Shirley Wind Study Infrasound Graphs

- 09/11/18 - Pre-filed Testimony of Jerry L. Punch
  - Exhibit 1 - Curriculum Vitae
  - Exhibit 2 - Wind Turbine Noise and Human Health: a Four-Decade History of Evidence that Wind Turbines Pose Risks
- 09/11/18 - Pre-filed Testimony of Prof. Mariana Alves-Pereira
  - Exhibit 1 - Curriculum Vitae 2018
  - Exhibit 1a - Annex to Curriculum Vitae - List of Publications
  - Exhibit 2 - Pictorial Explanation of the dBA Metric
  - Exhibit 3 - Neurological Manifestations Among US Government Personnel Reporting Directional Audible and Sensory Phenomena in Havana, Cuba
  - Exhibit 4 - Occupational and Residential Exposures to Infrasound and Low Frequency Noise in Aerospace Professionals: Flawed Assumptions, Inappropriate Quantification of Acoustic Environments, and the Inability to Determine Dose-Response Values
  - Exhibit 5: Infrasound and Low Frequency Noise - Shall We Measure It Properly?
  - Exhibit 6 - An Evaluation of Environmental, Biological and Health Data From the Island of Vieques, Puerto Rico
  - Exhibit 7 - Vibroacoustic Disease: Biological Effects of Infrasound and Low-Frequency Noise Explained by Mechanotransduction Cellular Signalling
  - Exhibit 8 - Vibroacoustic Disease I: The Personal Experience of a Motorman
  - Exhibit 9 - Vibroacoustic Disease and Respiratory Pathology III - Tracheal and Bronchial Lesions
  - Exhibit 10 - Vibroacoustic Disease in a Ten Year Old Male
- 09/11/18 - Certificate of Service
- Karen D. Jenkins
  - 09/11/18 - Karen D. Jenkins' Letter regarding Testimony

#### Rebuttal Testimonies and Exhibits

##### Prevailing Wind Park, LLC

- 09/26/18 - Prevailing Wind Park, LLC's Letter regarding Rebuttal Testimonies and Exhibits and Applicant's Lay Witness Disclosures
  - Pre-Filed Rebuttal Testimony of Bridget Canty
    - Exhibit 1 - Burns & McDonnell Memorandum, Potential House Field Review
    - Exhibit 2 - Revised Layout
  - Pre-Filed Rebuttal Testimony of Dr. Jeffrey Ellenbogen
    - Exhibit 1 - Curriculum Vitae
  - Pre-Filed Rebuttal Testimony of Aaron Anderson
    - Exhibit 1 - Results of Updated Shadow Flicker Analysis
  - Pre-Filed Rebuttal Testimony of Dr. Mark Roberts
    - Exhibit 1 - Ministry for the Environment, Climate and Energy of the Federal State of Baden-Wuerttemberg, Germany (2016) - Low-frequency Noise Incl. Infrasound from Wind Turbines and Other Sources - LUBW Landesanstalt Fur Umwelt, Messungen and Naturschutz Baden-Wuerttemberg
    - Exhibit 2 - Akira Shimada and Mimi Nameki (2017) - Evaluation of Wind Turbine Noise in Japan - Ministry of the Environment of Japan
    - Exhibit 3 - Danish Energy Agency (2009) - Wind Turbines in Denmark
    - Exhibit 4 - Frits van den Berg, Public Health Service Amsterdam, and Irene van Kamp, National Institute for Public Health and the Environment (2017) - Health Effects Related to Wind Turbine Sound - Swiss Federal Office for the Environment
    - Exhibit 5 - Stephen Chiles (2010) - A New Wind Farm Noise Standard for New Zealand, NZS 6808:2010 - Proceedings of 20th International Congress on Acoustics, ICA 2010
    - Exhibit 6 - Eja Pedersen, Höskolan i Halmstad (2003) - Noise Annoyance 116 from Wind Turbines - A Review. Swedish Environmental Protection Agency

- Exhibit 7 - Hitomi Kimura, Yoshinori Momose, Hiroya Deguchi, and Nameki, Mimi (2016) - Investigation, Prediction, and Evaluation of Wind Turbine Noise in Japan. Ministry of the Environment of Japan
- Exhibit 8 - C. Yan, K. Fu and W. Xu. On Cuba, Diplomats, Ultrasound, and Intermodulation Distortion - University of Michigan Tech Report. March 1, 2018
- Exhibit 9 - Crichton, F., et al. (2014) - The Link Between Health Complaints and Wind Turbines - Support for the Nocebo Expectations Hypothesis - *Frontiers in Public Health* 2:220
- Exhibit 10 - Enck, P., et al. "New Insights Into the Placebo and Nocebo Responses," *Neuron* (July 31, 2008) - Vol. 59, No. 2, pp. 195-206
- Exhibit 11 - Colloca, L. (2017) - Nocebo Effects Can Make You Feel Pain - Negative Expectancies Derived From Features of Commercial Drugs Elicit Nocebo Effects - *Science*, 358(6359): 44
- Pre-Filed Rebuttal Testimony of Peter Pawlowski
- Pre-Filed Rebuttal Testimony of Chris Howell
  - Exhibit 1 - Memorandum Regarding Updated Modeling Results - Prevailing Wind Park
- Pre-Filed Rebuttal Testimony of Michael MaRous
- Pre-Filed Rebuttal Testimony of Scott Creech
  - Exhibit 1 - Resume
- Applicant's Disclosure of Lay Witnesses
- Certificate of Service

#### Intervenors

- Sherman Fuerniss
  - 09/26/18 - Response of Sherman Fuerniss to Direct Testimonies
    - Expert Review of the NHMRC Draft Information Paper, "Evidence on Wind Farms and Human Health"
    - Open Letter to the Members of the Panel Developing the WHO Environmental Noise Guidelines for the European Region
  - Certificate of Service