

IN THE MATTER OF THE APPLICATION
CROWNED RIDGE WIND, LLC FOR A
PERMIT OF A WIND ENERGY FACILITY IN
GRANT AND CODINGTON COUNTIES

ALPHABETICAL INDEX

14CIV19-000290

1.	6/11/19	Additional Comments of Arvid J. Swanson; Comments of Brad Johnson, Johnson Appraisal, Inc.; Commissioner Hanson's Response to Brad Johnson, Johnson Appraisal, Inc.; Comments of Gregg C. Hubner; Commissioner Hanson's Response to Gregg C. Hubner; Comments of Gregg C Hubner Confidential (not available to the public); and Commissioner Hanson's Response to Gregg C. Hubner Confidential (not available to the public)	12194-12202 Confidential 12203-12204
2.	6/12/19	Additional Comments of Arvid J. Swanson; Comments of George L. and Ruby Holborn; Attachment; Commissioner Hanson's Response to George L. and Ruby Holborn; Comments of George L. and Ruby Holborn Confidential (not available to the public); Attachment Confidential (not available to the public); and Commissioner Hanson's Response to George L. and Ruby Holborn Confidential (not available to the public)	12505-12513 Confidential 12514-12518
3.	6/13/19	Additional Comments of Gregg C. Hubner; and Additional Comments of Gregg C. Hubner Confidential (not available to the public)	20105-20106 Confidential 20107-20108
4.	5/10/19	Affidavit of John Thompson and Correspondence; and Certificate of Service	2097-2104
5.	2/6/19	Allen Robish's Party Status Application	1030
6.	2/6/19	Amber Christenson's Party Status Application	1029
7.	4/25/19	Applicant's Data Requests to Intervenors Certificate of Service	1955-1956
8.	6/14/19	Applicant's Letter regarding Late Filed Exhibit A70; A70 - Turbines and Grasslands; and Certificate of Service	20113-20117
9.	5/24/19	Attachment 4 - Email Correspondence Between John Thompson and Russell Lloyd (for Tyler	4819-4824

		Wilhelm's Affidavit filed earlier); and Certificate of Service	
10.	5/23/19	Attachments for Tyler Wilhelm's Affidavit filed earlier - Attachment 1 - Cattle Ridge Wind Farm Land Status Map; Attachment 2 – Email Correspondence Between Cheryl Thompson and Russel Lloyd; Attachment 3 – Email Correspondence Between James Thompson and Tyler Wilhelm; and Certificate of Service	3688-3697
11.	6/20/19	Brief of Proposed Intervenors Timothy Lindgren & Linda Lindgren in Support of Their Application, Filed June 13, 2019 (not available to the public); Certificate of Service	Confidential 20154-20164 20165-20166
12.	2/28/19	Comments and Responses - https://puc.sd.gov/Dockets/Electric/2019/e119-003comments.aspx	1136-1139
13.	7/1/19	Comments of Barbara Burns to Commissioner Fiegen; Commissioner Fiegen's Response to Barbara Burns; Comments of Barbara Burns to Commissioner Nelson; Commissioner Nelson's Response to Barbara Burns; Comments of DaNita Wassenberg to Commissioner Nelson; Commissioner Nelson's Response to DaNita Wassenberg; Comments of Barbara Burns to Commissioner Fiegen Confidential (not available to the public); Commissioner Fiegen's Response to Barbara Burns Confidential (not available to the public); Commissioner Nelson's Response to Barbara Burns Confidential (not available to the public); Comments of Barbara Burns to Commissioner Nelson Confidential (not available to the public); Comments of DaNita Wassenberg to Commissioner Nelson Confidential (not available to the public); and Commissioner Nelson's Response to DaNita Wassenberg Confidential (not available to the public)	20224-20231 Confidential 20232-20239
14.	6/6/19	Comments of Brittany Renee Jacobson; Commissioner Hanson's Response to Brittany Renee Jacobson; Comments of Arvid J. Swanson; Comments of Brittany Renee Jacobson Confidential (not available to the public); and Commissioner Hanson's Response to Brittany Renee Jacobson Confidential (not available to the public)	11408-11419 Confidential 11420-11422

15.	6/25/19	Comments of Cory Mittleider to Commissioner Fiegen; Comments of Tim OConnor to Commissioner Fiegen; Comments of Tim OConnor to Commissioner Nelson; Comments of Cory Mittleider to Commissioner Nelson; Comments of Cory Mittleider to Commissioner Fiegen Confidential (not available to the public); Comments of Tim OConnor to Commissioner Fiegen Confidential (not available to the public); Comments of Tim OConnor to Commissioner Nelson Confidential (not available to the public); and Comments of Cory Mittleider to Commissioner Nelson Confidential (not available to the public)	20181-20184 Confidential 20185-20188
16.	6/3/19	Comments of Dennis Thyen; Attachment; Commissioner Hanson's Response to Dennis Thyen; Comments of Dennis Thyen Confidential (not available to the public); Attachment Confidential (not available to the public); Commissioner Hanson's Response to Dennis Thyen Confidential (not available to the public)	6547-6550 Confidential 6551-6554
17.	2/28/19	Comments of Derek Nelson to Commissioner Nelson; Commissioner Nelson's Response to Derek Nelson; Comments of Derek Nelson to Commissioner Nelson Confidential (not available to the public); and Commissioner Nelson's Response to Derek Nelson Confidential (not available to the public)	1140-1141 Confidential 1142-1143
18.	5/6/19	Comments of Francis Sehnert to Commissioner Nelson; Commissioner Nelson's Response to Francis Sehnert; Comments of Francis Sehnert to Commissioner Nelson Confidential (not available to the public); and Commissioner Nelson's Response to Francis Sehnert Confidential (not available to the public)	2024-2025 Confidential 2026-2027
19.	4/1/19	Comments of Jerry and Nichole Bury; Comments of Isaac Orr; Comments of Jerry and Nichole Bury Confidential (not available to the public); and Comments of Isaac Orr Confidential (not available to the public)	1385-1390 Confidential 1391-1396
20.	7/8/19	Comments of Kimberley Kringen; Commissioner Hanson's Response to Kimberley Kringen; Comments of Karla Kemp; Commissioner Hanson's Response to Karla Kemp; Comments of Kimberley Kringen;	20519-20524 Confidential 20525-20530

		Commissioner Hanson's Response to Kimberley Kringen; Comments of Sherman Fuerniss; Comments of Kimberley Kringen Confidential (not available to the public); Commissioner Hanson's Response to Kimberley Kringen Confidential (not available to the public); Comments of Karla Kemp Confidential (not available to the public); Comments of Kimberley Kringen Confidential (not available to the public); Commissioner Hanson's Response to Kimberley Kringen Confidential (not available to the public); Commissioner Hanson's Response to Karla Kemp Confidential (not available to the public); and Comments of Sherman Fuerniss Confidential (not available to the public)	
21.	3/20/19	Comments of Leroy Wiekamp; Comments of Margaret Korbel; Additional Comments of Margaret Korbel; Additional Comments of Margaret Korbel; Comments of Leroy Wiekamp Confidential (not available to the public); Comments of Margaret Korbel Confidential (not available to the public); Additional Comments of Margaret Korbel Confidential (not available to the public); and Additional Comments of Margaret Korbel Confidential (not available to the public)	1192-1195 Confidential 1196-1199
22.	5/16/19	Comments of Linda and Tim Lindgren; and Comments of Linda and Tim Lindgren Confidential (not available to the public)	3521 Confidential 3522
23.	6/14/19	Comments of Marcella F. Broyhill; and Comments of Marcella F. Broyhill Confidential (not available to the public)	20109-20110 Confidential 20111-20112
24.	5/28/19	Comments of Mike Simon to Commissioner Nelson; Commissioner Nelson's Response to Mike Simon; Comments of Mike Simon to Commissioner Hanson; Commissioner Hanson's Response to Mike Simon; Comments of Mike Simon to Commissioner Fiegen; Commissioner Fiegen's Response to Mike Simon; Comments of Mike Simon to Commissioner Nelson Confidential (not available to the public); Commissioner Nelson's Response to Mike Simon Confidential (not	4828-4834 Confidential 4835-4841

		available to the public); Comments of Mike Simon to Commissioner Hanson Confidential (not available to the public); Commissioner Hanson's Response to Mike Simon Confidential (not available to the public); Comments of Mike Simon to Commissioner Fiegen Confidential (not available to the public); and Commissioner Fiegen's Response to Mike Simon Confidential (not available to the public)	
25.	7/2/19	Comments of Myra Isburg to Commissioner Nelson; Commissioner Nelson's Response to Myra Isburg; Comments of Myra Isburg to Commissioner Fiegen; Commissioner Hanson's Response to Myra Isburg; Comments of A Feywine; Commissioner Hanson's Response to A Feywine; Comments of Myra Isburg to Commissioner Nelson Confidential (not available to the public); Commissioner Nelson's Response to Myra Isburg Confidential (not available to the public); Comments of Myra Isburg to Commissioner Fiegen Confidential (not available to the public); Commissioner Hanson's Response to Myra Isburg Confidential (not available to the public); Comments of A Feywine Confidential (not available to the public); and Commissioner Hanson's Response to A Feywine Confidential (not available to the public)	20240-20247 Confidential 20248-20256
26.	7/29/19	Comments of Shirley Hifstutler; Response to Shirley Hifstutler; Comments of Shirley Hifstutler Confidential (not available to the public); and Response to Shirley Hifstutler Confidential (not available to the public)	20715-20716 Confidential 20717-20718
27.	7/22/19	Comments of Tammy Sellars; Response to Tammy Sellars; Comments of Tammy Sellars Confidential (not available to the public); and Response to Tammy Sellars Confidential (not available to the public)	20670-20671 Confidential 20672-20673
28.	4/2/19	Commissioner Hanson's Response to Jerry and Nichole Bury; Commissioner Hanson's Response to Isaac Orr; Commissioner Hanson's Response to Jerry and Nichole Bury Confidential (not available to the public); and Commissioner Hanson's Response to Isaac Orr Confidential (not available to the public)	1397-1398 Confidential 1399-1400

29.	6/17/19	Commissioner Hanson's Response to Marcella F. Broyhill; Comments of Tom Kolecka; Commissioner Hanson's Response to Marcella F. Broyhill Confidential (not available to the public); and Comments of Tom Kolecka Confidential (not available to the public)	20118-20120 Confidential 20121-20123
30.	7/9/19	Commissioner Hanson's Response to Sherman Fuerniss; and Commissioner Hanson's Response to Sherman Fuerniss Confidential (not available to the public)	20550-20551 Confidential 20552-20553
31.	8/7/19	Commissioner Hanson's Response to Tom Kirschenmann, Game, Fish and Park's Email	20868
32.	7/9/19	Commissioner Nelson's Amendments	20554-20555
33.	6/26/19	Commissioner Nelson's Response to Tim OConnor; Commissioner Nelson's Response to Cory Mittleider; Commissioner Hanson's Response to Tom Kolecka; Comments of Virgil Whetsel to Commissioner Fiegen; Comments of Virgil Whetsel to Commissioner Nelson; Commissioner Nelson's Response to Virgil Whetsel; Commissioner Hanson's Response to Tom Kolecka Confidential (not available to the public); Commissioner Nelson's Response to Cory Mittleider Confidential (not available to the public); Commissioner Nelson's Response to Tim OConnor Confidential (not available to the public); Comments of Virgil Whetsel to Commissioner Fiegen Confidential (not available to the public); Comments of Virgil Whetsel to Commissioner Nelson Confidential (not available to the public); and Commissioner Nelson's Response to Virgil Whetsel Confidential (not available to the public)	20210-20215 Confidential 20216-20221
34.	8/6/19	Commissioner Nelson's Response to Tom Kirschenmann, Game, Fish and Park's Email	20867
35.	4/26/19	Corrected Intervenor's Responses to PUC Staff's First Set of Data Requests Certificate of Service	1991-1995
36.	2/19/19	Crown Ridge Wind, LLC's Responses to PUC Staff's First Set of Data Requests Certificate of Service	1068-1069
37.	9/4/19	Crowned Ridge Wind, LLC's Letter regarding Archaeological and Traditional Cultural Property Inventory; Archaeological and Traditional Cultural Inventory; and Certificate of Service	21588-21596

38.	1/30/19	Crowned Ridge Wind Farm's Application; Appendix A -Figures - Figure 1 -Project Area, Figure 2 -Public Land and Facilities, Figure 3 - Project Map, Figure 4a -Typical Wind Turbine Diagram, Figure 4b -Typical Wind Turbine Diagram, Figure 5 -Typical Turbine Construction Site Layout, Figure 6 - Environmental Constraints, Figure 7 - Constraints Map, Figure 8 -Topographic Map, Figure 9a -Surficial Geology, Figure 9b - Geology Cross Sections, Figure 10 -Bedrock Geology, Figure 11 -Soil Types, Figure 12 - Water Resources, Figure 13 -Land Use, Figure 14 -Common Sound Levels in the Environment; Appendix B – Agency Coordination Dates and Correspondence; Appendix C - DakotaSkipper and Powesheik Skipperling Survey Report; Appendix D - 2017-2018Raptor Nest Survey Report; Appendix E - Avian Use Survey Report; Appendix F - Bat Habitat Assessment Report; Appendix G – Bat Acoustic Survey Report; Appendix H - Sound Level Modeling Report (See Updated Appendices Filed on 2/27/19); Appendix I – Shadow Flicker Modeling Report (See Updated Appendices Filed on 2/27/19); Appendix J – County Conditional Use Permits; Appendix K – Property Value Effect Studies; Appendix L- Decommissioning Plan; and Appendix M - Telecommunication Studies;	10-960
39.	5/24/19	Crowned Ridge Wind LLC's Rebuttal Testimony of Mark Thompson; Exhibit_MT-R-1 - GE Power and Water - Original - Technical Documentation Wind Turbine Generator Systems 1&2MW Platform - 50/60 Hz Confidential (not available to the public); Exhibit_MT-R-2 - Applicant's Response to Staff Data Request 5-2; Exhibit_MT-R-3 - GE Recommendation "Setback Consideration Generic xxHz EN r04"; Certificate of Service for Non-Confidential; and Certificate of Service for Confidential	3698-3708 Confidential 3709-3715 3716-3727
40.	6/6/19	Crowned Ridge Wind, LLC's Pre-filed Exhibits - A47 - The Ohio Power Siting Board - Amended Testimony of David M. Hessler; A48 - Public Service Commission of Wisconsin -	11476-11927

		David M. Hessler's Exhibit 4 - Low Frequency Noise and Infrasound From Wind Turbines, Noise Control Engineering Journal; A49 - PSC Docket No. 2535-CE-100 - Ex.-Clean Wisconsin - Hessler- 4 Low Frequency Noise and Infrasound From Wind Turbines, Noise Control Engineering Journal; A50 - Transcript of Public Service Commission of Wisconsin - October 10, 2012, Docket N. 2535-CE-100; and A51 - Minnesota Regulation on Sound - 7030.0050 Noise Area Classification and 7030.0040 Noise Standards	
41.	5/31/19	Crowned Ridge Wind, LLC's Amended Responses to Intervenor's Fourth Set of Data Requests Certificate of Service	6345-6347
42.	6/18/19	Crowned Ridge Wind, LLC's Application to Codington County Auditor and Grant County Auditor Certificate of Service	20152
43.	7/8/19	Crowned Ridge Wind, LLC's Comment Letter to PUC Staff regarding Agency Correspondence from US Fish and Wildlife; and Attachment 1 - Email Correspondence from USFWS to SWCA; and Certificate of Service	20531-20542
44.	5/20/19	Crowned Ridge Wind, LLC's First Set of Data Requests to PUC Staff Certificate of Service	3557
45.	5/28/19	Crowned Ridge Wind, LLC's for Tyler Wilhelm and Sam Massey's Rebuttal Testimony Exhibits 1 and 2 Amended Certificate of Service	4866-4867
46.	8/12/19	Crowned Ridge Wind, LLC's Landowner Mailing Addresses Confidential (not available to the public); and Certificate of Service	Confidential 20937-20945 20946-20947
47.	2/28/19	Crowned Ridge Wind, LLC's Letter regarding Additional Updated Supplements to Appendices H and I; EAPC Wind Energy's Letter and Updated Landowner Participation Status for Appendix H; EAPC Wind Energy's Letter and Updated Landowner Participation Status for Appendix I; and Certificate of Service	1144-1150
48.	4/2/19	Crowned Ridge Wind, LLC's Letter regarding Affidavit of Publications; Grant County Review (February 13 & 20); South Shore Gazette (February 14 & 21); and The Watertown Public Opinion (February 13 & 20); Affidavit of Landowner Mailings; Exhibit A - Outside	1401-1408 Confidential 1409-1425 1426-1433

		Boundary List Confidential (not available to the public); Exhibit A -Inside Boundary List Confidential (not available to the public); Landowner Letter with Attachments; Certificate of Service (Confidential Exhibits A); and Certificate of Service (Affidavit of Landowner Mailings and Affidavit of Publications)	
49.	5/14/19	Crowned Ridge Wind, LLC's Letter regarding Allocation of Tax Revenues; and Certificate of Service	3509-3512
50.	5/15/19	Crowned Ridge Wind, LLC's Letter regarding Amendment to the Application; Amendment to the Application Crowned Ridge Wind, LLC; and Certificate of Service	3515-3520
51.	7/29/19	Crowned Ridge Wind, LLC's Letter regarding Compliance Filing and Notice of Commencement of Construction; Final Project Area Map; Final Project Maps; Final Sound Study; Final Shadow Flicker Study; and Certificate of Service	20719-20836
52.	8/8/19	Crowned Ridge Wind, LLC's Letter regarding Condition 1; Codrington County Letter Granting CUP; Codrington County Letter of Assurance; Grant County Findings of Fact Conditional Use Permit Dated December 17, 2018; Grant County Findings of Fact Conditional Use Permit Dated April 8, 2019; Grant County Letter of Assurance; and Certificate of Service	20869-20895
53.	8/20/19	Crowned Ridge Wind, LLC's Letter regarding Condition 12; Historic Property Monitoring and Discovery Plan Confidential (not available to the public); Certificate of Service - NonConfidential; and Certificate of Service - Confidential	20954 Confidential 20955-21021 21022-21024
54.	8/21/19	Crowned Ridge Wind, LLC's Letter regarding Condition 14; DENR's Notice of Intent; DENR's Letter and Permit Number: SDR10J576; Storm Water Pollution Prevention Plan; and Certificate of Service	21025-21067
55.	7/17/19	Crowned Ridge Wind, LLC's Letter regarding Condition 34 of the Settlement Stipulation; Brian Riniker's Resume; and Certificate of Service	20661-20665
56.	8/12/19	Crowned Ridge Wind, LLC's Letter regarding Conditions 7 and 8; Haul Road Bond; and Certificate of Service	20948-20953

57.	6/10/19	Crowned Ridge Wind, LLC's Letter regarding Exhibit A54 - Replacement Final Land Status Map; A54 - Replacement Final Land Status Map; and Certificate of Service	12189-12193
58.	6/11/19	Crowned Ridge Wind, LLC's Letter regarding Exhibit A55 - Proposed Turbine Drops and Moves; A55 - Proposed Turbine Drops and Moves; Certificate of Service; Crowned Ridge Wind, LLC's Letter regarding Exhibits A55, A56, A57, A58, A59, A60 and A61; Exhibit A56 - Appendix D Sound ISO-Lines Map Book Hessler; Exhibit A57 - Appendix C-3 Sound Results Table Rev 6; Exhibit A58 - Final Land Status and Hessler 7 on Intervenors; Exhibit A59 - Final Land Status and Hessler 7 Turbine Moves; Exhibit A60 - Hessler 7 on Hessler Identified Non Participants; Exhibit A61 - Joint Stipulation of Agreed to Conditions Between Crowned Ridge and PUC Staff; and Certificate of Service	12206-12244
59.	6/12/19	Crowned Ridge Wind, LLC's Letter regarding Exhibits A62 and A63; Exhibit A62 - FAA Pending Turbine Locations; Exhibit A63 - Amended Condition 26 (Sound Level); Certificate of Service; Crowned Ridge Wind, LLC's Letter regarding Exhibits A64 and A65 ; Exhibit A64 - Granquist Option Confidential (not available to the public); Exhibit A65 - Papio Valley Land Confidential (not available to the public); Confidential Certificate of Service; Non-Confidential Certificate of Service; Exhibit A66 - Crowned Ridge Wind, LLC's Letter regarding Extreme Cold Weather Package; Certificate of Service; Crowned Ridge Wind, LLC's Letter regarding Exhibits A67 and A68; Exhibit A67 - Appendix C-1 Shadow Results Table Rev5; Exhibit A68 - Appendix C-2 Shadow Results Table Rev5; Certificate of Service; Crowned Ridge Wind, LLC's Letter regarding Exhibit A69; Exhibit A69 - Insurance Confidential (not available to the public); Confidential Certificate of Service; Non-Confidential Certificate of Service	12830-12837 Confidential 12838-12874 12875-12893 Confidential 12894 12895-12897
60.	4/3/19	Crowned Ridge Wind, LLC's Letter regarding Information on the Allocation of Tax Revenues	1461-1462

61.	5/17/19	Crowned Ridge Wind, LLC's Letter regarding Kimberly Wells	3556
62.	8/12/19	Crowned Ridge Wind, LLC's Letter regarding Landowner Notification Letter; Landowner Notification Letter and Attachments; Affidavit of Landowner Mailings; and Certificate of Service	20896-20936
63.	8/23/19	Crowned Ridge Wind, LLC's Letter regarding Nationwide Self-Verification Memo for Wetlands; Nationwide Self-Verification Memo for Wetlands; and Certificate of Service	21408-21587
64.	7/2/19	Crowned Ridge Wind, LLC's Letter regarding Post-Hearing Brief and Proposed Findings of Fact and Conclusions of Law; Crowned Ridge Wind, LLC's Post-Hearing Brief and Proposed Findings of Fact and Conclusions of Law; and Certificate of Service	20445-20491
65.	6/5/19	Crowned Ridge Wind, LLC's Letter regarding Pre-filed Exhibits; A1 - Crowned Ridge Wind Farm's Application; A1-A -Appendix A – Figures; Figure 1 - Project Area; Figure 2 - Public Land and Facilities; Figure 3 - Project Map; Figure 4a - TypicA1 Wind Turbine Diagram; Figure 4b -TypicA1 Wind Turbine Diagram; Figure 5 - TypicA1 Turbine Construction Site Layout; Figure 6 - EnvironmentA1 Constraints; Figure 7 - Constraints Map; Figure 8 - Topographic Map; Figure 9a - SurficiA1 Geology; Figure 9b - Geology Cross Sections; Figure 10 - Bedrock Geology Figure 11 - Soil Types; Figure 12 - Water Resources; Figure 13 - Land Use; and Figure 14 - Common Sound Levels in the Environment; A1-B - Appendix B - Agency Coordination Dates and Correspondence; A1-C - Appendix C - Dakota Skipper and Powesheik Skipperling Survey Report; A1-D - Appendix D - 2017-2018 Raptor Nest Survey Report; A1-E - Appendix E - Avian Use Survey Report; A1-F - Appendix F - Bat Habitat Assessment Report; A1-G - Appendix G - Bat Acoustic Survey Report; A1-H - Appendix H - Sound Level Modeling Report; A1-I - Appendix I - Shadow Flicker Modeling Report; A1-J - Appendix J - County Conditional Use Permits; A1-K - Appendix K - Property Value Effect Studies;	6944-8044 Confidential 8045-8212 8213-8556 Confidential 8557-8563 8564-9961 Confidential 9962-9996 9997-10049 Confidential 10050-10113 10114-10217 Confidential 10218-10281 10282-11373

	<p>A1-L - Appendix L - Decommissioning Plan; A1-M - Appendix M - Telecommunication Studies; A2 - Pre-filed Testimony of Jay Haley; A3 - Pre-filed Testimony of Kimberly Wells, PH.D.; A4 - Pre-filed Testimony of Mark Thompson; A5 - Pre-filed Testimony and Exhibits of Tyler Wilhelm and Sam Massey; A6 - Supplemental Figure 3a; A7 - Responses to PUC Staffs First Set of Data Requests; A7-1 - Attachment to DR 1-1; A7-2 - Attachment 2 to DR 1-7 Confidential (not available to the public); A7-3 - Attachment 1 to DR 1-13 Confidential (not available to the public); A7-4 - Attachment 1 to DR 1-7 Confidential (not available to the public); A7-5 - Attachment 1 to DR 1-9 Confidential (not available to the public); A7-6 - Attachment to DR 1-10; A8 - EAPC Wind Energy's Letter and Updated Appendices A through D for Appendix H; A9 - EAPC Wind Energy's Letter and Updated Appendices A through D for Appendix I; A10 - EAPC Wind Energy's Letter and Updated Landowner Participation Status for Appendix H; A11 - EAPC Wind Energy's Letter and Updated Landowner Participation Status for Appendix I; A12 - US Fish and Wildlife Service's Letter regarding Environmental Comments; A13 - US Fish and Wildlife Service's Memo regarding Region 6 guidance for Minimizing Effects from Power Line Projects within the Whooping Crane Migration Corridor; A14 - U.S. Fish and Wildlife Service, Region 6, Mountain-Prairie Region's Outline for a Bird and Bat Conservation Strategy: Wind Energy Projects; A15 - 2013 U.S. Fish and Wildlife Service's Revised Voluntary guidelines for Communication Tower Design, Siting, Construction, Operation, Retrofitting, and Decommissioning; A16 - Responses to PUC Staffs Second Set of Data Requests; A16-1 - Attachment 1 to 2-30 Confidential (not available to the public); A16-2 - Attachment 1 to 2-15; A16-3 - Attachment 1 to 2-8; A16-4 - Attachment 1 to 2-13; A17 - Supplement to 1-11; Appendixes A, B & D; A18 - Supplement to 1-12; Appendixes B & D; A19 - Responses to</p>	<p>Confidential 11374-11377 11378-11404</p>
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		<p>PUC Staffs Second Set of Data Requests; A20 - Responses to Amber Christenson and Kristi Mogen's First Set of Data Requests; A20-1 - Attachment 1 to 1-6; A20-2 - Attachment 1 to 1-8; A20-3 - Attachment 1 to 1-9; A20-4 - Attachment 1 to 1-10; A20-5 - Attachment 1 to 1-11; A20-6 - Attachment 1 to 1-12; A20-7 - Attachment 1 to 1-13; A20-8 - Attachment 1 to 1-17; A20-9 Attachment 1 to 1-18; A20-10 - Attachment 1 to 1-20; A20-11 - Attachment 1 to 1-22; A20-12 - Attachment 1 to 1-23; A20-13 - Attachment 1 to 1-46; A20-14 - Attachment 1 to 1-152- Applicant's Responses to Staff; A20-15 - Attachment 1 to 2-8; A20-16 - Attachment 1 to 2-13; A20-17 - Attachment 1 to 2-15; A20-18 - Supplement to 1-12; Appendix E; A20-19 - Supplement to 1-12; Appendix F; A20-20 - Supplement to 1-12 ; Appendix H; A21 - Supplemental Testimony of Mark Thompson; A22 - Supplemental Testimony of Jay Haley; A22-1 - Exhibit 1 - Supplemental Material That Updates Sound Study to Reflect Landowner Participation Status; A22-2 - Exhibit 2 - Tables: Crown cd Ridge Sound Level Tabular Results Sorted by Receptor ID; A22-3 - Exhibit 3 - Supplemental Material That Updates Shadow/Flicker Study to Reflect Landowner Participation Status; A23 - Supplemental Testimony of Tyler Wilhelm and Sam Massey; A24 - Supplemental Testimony of Christopher Ollson; A24-1 - Exhibit 1 - Christopher Ollson Curriculum Vitae; A24-2 - Exhibit 2 - "Health Effects and Wind Turbines: A Review of the Literature," Knopper & Ollson; A24-3 - Exhibit 3 - "Effects of Wind Turbine Noise on Self-Reported and Objective Measures of Sleep," Michaud et al.; A24-4 - Exhibit 4 - "Impact of Wind Turbine Sound on Annoyance, Self-Reported Sleep Disturbance and Psychological Distress," Bakker et al.; A24-5 - Exhibit 5 - "Before-After Field Study of Effects of Wind Turbine Noise on Polysomnographic Sleep Parameters," Jalai et al.; A24-6 - Exhibit 6 - "Health-based Audible Noise Guidelines Account for Infrasound and Low-Frequency Noise Produced by Wind</p>	
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	<p>Turbines," Berger et al.; A24-7 - Exhibit 7 - "Measurement and Level of Infrasound From Wind Farms and Other Sources," Turnbull et al.; A24-8 - Exhibit 8 - "Wind Turbines and Health, A Critical Review of the Scientific Literature," McCunney et al.; A24-9 - Exhibit 9 - "Low-frequency Noise Including Infrasound From Wind Turbines and Other Sources," Baden-Wurtttemberg; A24-10 - Exhibit 10 - "Wind Turbines and Human Health," Knopper et al.; A24-11 - Exhibit 11 - "Exposure to Wind Turbine Noise: Perceptual Responses and Reported Health Effects," Michaud et al.; A24-12 - Exhibit 12 - "Estimating Annoyance to Calculated Wind Turbine Shadow Flicker is Improved When Variables Associated with Wind Turbine Noise Exposure are Considered," Voiccsu et al.; A24-13 - Exhibit 13 - "Notes on the Identification and Evaluation of Optical Emissions from Wind Turbines," (in German) Landerausschuss fur Immissionsschutz; A24-13A - Exhibit 13 - "Notes on the Identification and Evaluation of Optical Emissions from Wind Turbines," (in English); A24-14 - Exhibit 14 - "Wind Turbines and Photosensitive Epilepsy," Epilepsy Society; A24-15 - Exhibit 15 - "Wind Turbines Flicker, and Photosensitive Epilepsy: Characterizing the Flashing That May Precipitate Seizures and Optimizing Guidelines to Prevent Them." Harding et al.; A24-16 - Exhibit 16 - "Potential of Wind Turbines to Elicit Seizures Under Various Meteorological Conditions," Smedley et al.; A24-17 - Exhibit 17 - "Update of UK Shadow Flicker Evidence Base," Department of Energy and Climate Change; A25 - Direct Testimony of Kimberly Wells, Ph.D. Adopted by Sarah Sappington; A26 - Responses to PUC Staff's Third Set of Data Requests; A26-1 - Attachment 1 to 3-2 Confidential (not available to the public); A26-2 - Attachment 1 to 3-5; A26-3 - Attachment 1 to 3-10; A27 - Responses to PUC Staff's Fourth Set of Data Requests; A28 - Letter regarding Allocation of Tax Revenues; A29 - Amendment to the Application Crowned Ridge Wind, LLC; A30 -</p>	
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	<p>Letter regarding Kimberly Wells; A31 - Supplemental Responses to PUC Staffs First Set of Data Requests; A31-1 - Attachment - Notice of Entry of Findings of Fact; A32 - Responses to PUC Staff s Fifth Set of Data Requests; A32-1 - Attachment1 Staff 5-1 Confidential (not available to the public); A32-2 - Attachment 1 - Figure 3; A33 - Applicant's Responses to Intervenor's Third Set; A34 - Applicant's Responses to Intervenor's Second Set; A35 - PUC Letter Forward Updated Maps; A35-1 - Revised Figure 2 - Public Land and Facilities; A35-2 - Revised Figure 3 - Project Map; A35-3 - Revised Figure 3a - Project Map; A35-4 - Revised Figure 6 - Environmental Constraints; A35-5 - Revised Figure 7 - Constraints Map; A35-6 - Revised Figure 8 - Topographic Map; A35-7 - Revised Figure 9a - Surficial Geology; A35-8 - Revised Figure 9b - Geology Cross Sections; A35-9 - Revised Figure 10 - Bedrock Geology; A35-10 - Revised Figure 11 - Soil Types; A35-11 - Revised Figure 12 - Water Resources; A35-12 - Revised Figure 13 - Land Use; A36 - Supplemental Responses to PUC Staffs Data Request 2-41; A37 - Rebuttal Testimony of Mark Thompson; A37-1 - GE Power and Water - Original - Technical Documentation Wind Turbine Generator Systems 1 & 2MW Platform - 50/60 Hz A37-2 Confidential (not available to the public); A37-2 - Applicant's Response to Staff Data Request 5-2; A37-3 - GE Recommendation "Setback Consideration Generic xxHz EN r04"; A38 - Rebuttal Testimony of Chris Ollson; A38-1 - Noise Annoyance in Canada; A38-2 - The UK National Noise Attitude Survey 1999/2000 - Noise Forum Conference 20 May 2002; A38-3 - The Association Between Self-Reported and Objective Measures of Health and Aggregate Annoyance Scores Toward Wind Turbine Installations; A38-4 - An Assessment of Quality of Life Using the WHOQOL-BREF Among Participants Living in the Vicinity of Wind Turbines; A38-5 - The Effects of Environment and Classroom Noise on the Academic</p>	
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		<p>Attainments of Primary School Children; A38-6 - Low-frequency Noise Incl. Infrasound From Wind Turbines and Other Sources; A38-7 - The Pattern of Complaints about Australian Wind Farms Does Not Match the Establishment and Distribution of Turbines: Support for the Psychogenic, ‘Communicated Disease’ Hypothesis; A39 - Rebuttal Testimony of Andrew Baker; A39-1 - Qualifications; A39-2 - Valbridge Property Advisors - Value Impact Study Report; A39-3 - The Windy City: Property Value Impacts of Wind Turbines in an Urban Setting; A40 - Rebuttal Testimony of Dr. Robert McCunney; A40-1 - Curriculum Vitae; A40-2 - Guidelines for the Diagnosis and Management of Asthma; A40-3 - The Scope for Biased Recall of Risk-Factor Exposure in Case-Control Studies: Evidence from a Cohort Study of Scottish Men; A40-4 - The Placebo and Nocebo Phenomena: Their Clinical Management and Impact on Treatment Outcomes; A40-5 - Nocebo Effect of Informed Consent in Interventional Procedures; A40-6 - The Nocebo Effect in the Context of Statin Intolerance; A40-7 - Fright Factors About Wind Turbines and Health in Ontario Newspapers Before and After the Green Energy Act; A40-8 - The Pattern of Complaints about Australian Wind Farms Does Not Match the Establishment and Distribution of Turbines: Support for the Psychogenic, ‘Communicated Disease’ Hypothesis; A40-9 - Can Road Traffic Mask Sound from Wind Turbines? Response to Wind Turbine Sound at Different Levels of Road Traffic Sound; A41 - Rebuttal Testimony of Richard Lampeter; A41-1 - Curriculum Vitae; A41-2 - Wind Turbine Health Impact Study: Report of Independent Expert Panel - January 2012; A41-3 - Assessing Sound Emissions From Proposed Wind Farms & Measuring the Performance of Completed Projects; A41-4 - Noise Control Engineering Journal - March-April 2011; A42 - Rebuttal Testimony Sarah Sappington; A42-1 - Maps; A43 - Rebuttal Testimony of Jay Haley; A43-1 - Crowned Ridge Wind Farm Shadow Flicker Iso—Lines</p>	
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		<p>Overview Map; A43-2 - Crowned Ridge Wind Farm Sound Pressure Iso-Lines Overview Map; A43-3 - Crowned Ridge Sound Level Tabular Results Sorted by Sound Level Realistic; A43-4 - Crowned Ridge Sound Level Tabular Results Sorted by Sound Level (16 Turbines Removed); A43-5 Crowned Ridge Sound Level Tabular Results Sored by Receptor ID Realistic; A44 - Rebuttal Testimony of Tyler Wilhelm and Sam Massey; A44-1 - Letter from Dennis Schmeling; A44-2 - Updated Maps; A45 - Applicant's Responses to Intervenor's Fifth Set of Data Requests to Crowned Ridge Wind, LLC; A45-1 - Attachment 1 to 5-2; A45-2 - Attachment 1 to 5-5; A45-3 - Attachment 1 to 5-7; A45-4 - Attachment 1 to 5-12; A46 - Applicant's Responses to Staffs Sixth Set of Data Requests to Crowned Ridge Wind, LLC Confidential (not available to the public); A46-1 - Attachment 1 to 6-1; A46-2 - Attachment 1 to 6-2; and Certificate of Service</p>	
66.	5/23/19	<p>Crowned Ridge Wind, LLC's Letter regarding Revised Maps; Revised Figure 2 - Public Land and Facilities; Revised Figure 3 – Project Map; Revised Figure 3a – Project Map; Revised Figure 6 – Environmental Constraints; Revised Figure 7 – Constraints Map; Revised Figure 8 – Topographic Map; Revised Figure 9a – Surficial Geology; Revised Figure 9b – Geology Cross Sections; Revised Figure 10 – Bedrock Geology; Revised Figure 11 – Soil Types; Revised Figure 12 – Water Resources; Revised Figure 13 – Land Use; and Certificate of Service</p>	3601-3687
67.	3/12/19	<p>Crowned Ridge Wind, LLC's Letter regarding Supplement to Appendix B; US Fish and Wildlife Service's Letter regarding Environmental Comments; US Fish and Wildlife Service's Memo regarding Region 6 Guidance for Minimizing Effects from Power Line Projects Within the Whooping Crane Migration Corridor; U.S. Fish and Wildlife Service, Region 6, Mountain-Prairie Region's Outline for a Bird and Bat Conservation Strategy: Wind Energy Projects; 2013 U.S. Fish</p>	1154-1182

		and Wildlife Service's Revised Voluntary Guidelines for Communication Tower Design, Siting, Construction, Operation, Retrofitting, and Decommissioning; and Certificate of Service	
68.	2/7/19	Crowned Ridge Wind, LLC's Letter regarding Supplemental Figure 3a; and Supplemental Figure 3a	1032-1055
69.	4/9/19	Crowned Ridge Wind, LLC's Letter regarding Supplemental Testimony; and Supplemental Testimony of Mark Thompson	1467-1473
70.	4/10/19	Crowned Ridge Wind, LLC's Letter regarding Supplemental Testimony; Direct Testimony of Kimberly Wells, Ph.D. Adopted by Sarah Sappington; and Certificate of Service	1925-1944
71.	2/27/19	Crowned Ridge Wind, LLC's Letter regarding Updated Appendices for Appendix H and I; EAPC Wind Energy's Letter and Updated Appendices A through D for Appendix H; EAPC Wind Energy's Letter; Updated Appendices A through D for Appendix I; and Certificate of Service	1078-1135
72.	8/22/19	Crowned Ridge Wind, LLC's Letter regarding Wildlife Conservation Strategy; Wildlife Conservation Strategy; Appendix A - Agency Coordination; Appendix B - Dakota Skipper Habitat and Survey Area Mapbook; Appendix C - Post-Construction Fatality Monitoring Protocol; Appendix D - Wildlife Response and Reporting System; and Certificate of Service	21068-21407
73.	6/3/19	Crowned Ridge Wind, LLC's Letter regarding Witness and Exhibit List; Witness and Exhibit List; and Certificate of Service	6536-6546
74.	8/6/19	Crowned Ridge Wind, LLC's Letter to Landowners regarding Public Liaison; Sarah Sappington's Affidavit; Project Liaison Officer Mailing; Landowner Listing Confidential (not available to the public); Certificate of Service Confidential Information; and Certificate of Service Public Information	20838-20841 Confidential 20842-20861 20862-20864
75.	6/7/19	Crowned Ridge Wind, LLC's Pre-filed Exhibits - A52 - Crowned Ridge Wind, LLC's Letter regarding Exhibit A53 - Final Land Status Map; A53 - Final Land Status Map; and Certificate of Service	12180-12185

76.	3/27/19	Crowned Ridge Wind, LLC's Presentation from Public Input Hearing; Certificate of Service	1343-1365
77.	5/23/19	Crowned Ridge Wind, LLC's Response to Intervenor's Second Motion to Deny and Dismiss; Affidavit of Tyler Wilhelm (See Attachments to the Affidavit below); and Certificate of Service	3584-3597
78.	4/30/19	Crowned Ridge Wind, LLC's Response to Motion to Deny and Dismiss; and Certificate of Service	2007-2022
79.	3/25/19	Crowned Ridge Wind, LLC's Responses to Amber Christenson and Kristi Mogen's First Set of Data Requests Certificate of Service	1329-1330
80.	3/25/19	Crowned Ridge Wind, LLC's Responses to Amber Christenson and Kristi Mogen's First Set of Data Requests Certificate of Service	1333-1334
81.	6/4/19	Crowned Ridge Wind, LLC's Responses to Intervenor's Fifth Set of Data Requests Certificate of Service	6555-6557
82.	5/30/19	Crowned Ridge Wind, LLC's Responses to Intervenor's Fourth Set of Data Requests Certificate of Service	4888-4890
83.	5/23/19	Crowned Ridge Wind, LLC's Responses to Intervenor's Second Set of Data Requests Certificate of Service	3578-3580
84.	5/23/19	Crowned Ridge Wind, LLC's Responses to Intervenor's Third Set of Data Requests Certificate of Service	3581-3583
85.	5/23/19	Crowned Ridge Wind, LLC's Responses to PUC Staff's Confidential Fifth Set of Data Requests Certificate of Service	3575-3576
86.	5/20/19	Crowned Ridge Wind, LLC's Responses to PUC Staff's Fourth Set of Data Requests Certificate of Service	3558-3559
87.	5/23/19	Crowned Ridge Wind, LLC's Responses to PUC Staff's Non-Confidential Fifth Set of Data Requests Certificate of Service	3577
88.	3/18/19	Crowned Ridge Wind, LLC's Responses to PUC Staff's Second Set of Data Requests Certificate of Service	1183-1184
89.	3/25/19	Crowned Ridge Wind, LLC's Responses to PUC Staff's Second Set of Data Requests Certificate of Service	1331-1332
90.	6/4/19	Crowned Ridge Wind, LLC's Responses to PUC Staff's Sixth Set of Data Requests Certificate of Service	6558-6559

91.	6/4/19	Crowned Ridge Wind, LLC's Responses to PUC Staff's Sixth Set of Data Requests (redacted)Certificate of Service	6560
92.	4/25/19	Crowned Ridge Wind, LLC's Responses to PUC Staff's Third Set of Data Requests Certificate of Service	1953-1954
93.	4/26/19	Crowned Ridge Wind, LLC's Responses to PUC Staff's Third Set of Data Requests Certificate of Service	1996
94.	3/27/19	Crowned Ridge Wind, LLC's Responses to the Motion for Procedural Schedule; and Certificate of Service	1340-1342
95.	5/24/19	Crowned Ridge Wind, LLC's Supplemental Responses to PUC Staff's Data Request 2-41 Certificate of Service	4825-4827
96.	5/22/19	Crowned Ridge Wind, LLC's Supplemental Responses to PUC Staff's First Set of Data Requests Certificate of Service	3564-3565
97.	6/7/19	Crowned Ridge Wind, LLC's Supplemental Responses to PUC Staff's Sixth Set of Data Requests Certificate of Service	12186-12188
98.	3/22/19	Crowned Ridge Wind, LLC's Supplements Appendices Attachment 1-11 and 1-12 Certificate of Service	1326-1327
99.	4/16/19	David Ganje's Letter; Notice for Appearance (David Ganje for Mr. Allen Robish, Ms. Amber Christenson, Ms.Kristi Mogen, Ms. Melissa Lynch and Mr. Patrick Lynch); and Certificate of Service	1945-1947
100.	1/30/19	Docket EL19-003 - Electronic Docket Filings (PUC Website) http://puc.sd.gov/Dockets/Electric/2019/EL19-003.aspx	1-9
101.	6/6/19	Evidentiary Hearing – Transcript (Staff witness David Hessler)	11928-12059
102.	6/12/19	Evidentiary Hearing Exhibits – Crowned Ridge Wind LLC - A1 - Crowned Ridge Wind Farm's Application; A1-A -Appendix A – Figures; Figure 1 - Project Area; Figure 2 - Public Land and Facilities; Figure 3 - Project Map; Figure 4a - TypicA1 Wind Turbine Diagram; Figure 4b -TypicA1 Wind Turbine Diagram; Figure 5 - TypicA1 Turbine Construction Site Layout; Figure 6 - EnvironmentA1 Constraints; Figure 7 - Constraints Map; Figure 8 - Topographic Map; Figure 9a - SurficiA1 Geology; Figure 9b	12912-14010 Confidential 14011-14178 14179-14522 Confidential 14523-14529 14530-15927

	<p>- Geology Cross Sections; Figure 10 - Bedrock Geology Figure 11 - Soil Types; Figure 12 - Water Resources; Figure 13 - Land Use; and Figure 14 - Common Sound Levels in the Environment; A1-B - Appendix B - Agency Coordination Dates and Correspondence; A1-C - Appendix C - Dakota Skipper and Powesheik Skipperling Survey Report; A1-D - Appendix D - 2017-2018 Raptor Nest Survey Report; A1-E - Appendix E - Avian Use Survey Report; A1-F - Appendix F - Bat Habitat Assessment Report; A1-G - Appendix G - Bat Acoustic Survey Report; A1-H - Appendix H - Sound Level Modeling Report; A1-I - Appendix I - Shadow Flicker Modeling Report; A1-J - Appendix J - County Conditional Use Permits; A1-K - Appendix K - Property Value Effect Studies; A1-L - Appendix L - Decommissioning Plan; A1-M - Appendix M - Telecommunication Studies; A2 - Pre-filed Testimony of Jay Haley; A3 - Pre-filed Testimony of Kimberly Wells, PH.D.; A4 - Pre-filed Testimony of Mark Thompson; A5 - Pre-filed Testimony and Exhibits of Tyler Wilhelm and Sam Massey; A6 - Supplemental Figure 3a; A7 - Responses to PUC Staffs First Set of Data Requests; A7-1 - Attachment to DR 1-1; A7-2 - Attachment 2 to DR 1-7 Confidential (not available to the public); A7-3 - Attachment 1 to DR 1-13 Confidential (not available to the public); A7-4 - Attachment 1 to DR 1-7 Confidential (not available to the public); A7-5 - Attachment 1 to DR 1-9 Confidential (not available to the public); A7-6 - Attachment to DR 1-10; A8 - EAPC Wind Energy's Letter and Updated Appendices A through D for Appendix H; A9 - EAPC Wind Energy's Letter and Updated Appendices A through D for Appendix I; A10 - EAPC Wind Energy's Letter and Updated Landowner Participation Status for Appendix H; A11 - EAPC Wind Energy's Letter and Updated Landowner Participation Status for Appendix I; A12 - US Fish and Wildlife Service's Letter regarding Environmental Comments; A13 - US Fish and Wildlife Service's Memo regarding Region 6 guidance</p>	<p>Confidential 15928-15962</p> <p>15963-16015</p> <p>Confidential 16016-16079</p> <p>16080-16183</p> <p>Confidential 16184-16247</p> <p>16248-17339</p> <p>Confidential 17340-17343</p> <p>17344-17853</p> <p>Confidential 17854-17890</p> <p>17891-17899</p> <p>Confidential 17900</p> <p>17901</p>
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		<p>for Minimizing Effects from Power Line Projects within the Whooping Crane Migration Corridor; A14 - U.S. Fish and Wildlife Service, Region 6, Mountain-Prairie Region’s Outline for a Bird and Bat Conservation Strategy: Wind Energy Projects; A15 - 2013 U.S. Fish and Wildlife Service’s Revised Voluntary guidelines for Communication Tower Design, Siting, Construction, Operation, Retrofitting, and Decommissioning; A16 - Responses to PUC Staffs Second Set of Data Requests; A16-1 - Attachment 1 to 2-30 Confidential (not available to the public); A16-2 - Attachment 1 to 2-15; A16-3 - Attachment 1 to 2-8; A16-4 - Attachment 1 to 2-13; A17 - Supplement to 1-11; Appendixes A, B & D; A18 - Supplement to 1-12; Appendixes B & D; A19 - Responses to PUC Staffs Second Set of Data Requests; A20 - Responses to Amber Christenson and Kristi Mogen’s First Set of Data Requests; A20-1 - Attachment 1 to 1-6; A20-2 - Attachment 1 to 1-8; A20-3 - Attachment 1 to 1-9; A20-4 - Attachment 1 to 1-10; A20-5 - Attachment 1 to 1-11; A20-6 - Attachment 1 to 1-12; A20-7 - Attachment 1 to 1-13; A20-8 - Attachment 1 to 1-17; A20-9 Attachment 1 to 1-18; A20-10 - Attachment 1 to 1-20; A20-11 - Attachment 1 to 1-22; A20-12 - Attachment 1 to 1-23; A20-13 - Attachment 1 to 1-46; A20-14 - Attachment 1 to 1-152- Applicant’s Responses to Staff; A20-15 - Attachment 1 to 2-8; A20-16 - Attachment 1 to 2-13; A20-17 - Attachment 1 to 2-15; A20-18 - Supplement to 1-12; Appendix E; A20-19 - Supplement to 1-12; Appendix F; A20-20 - Supplement to 1-12 ; Appendix H; A21 - Supplemental Testimony of Mark Thompson; A22 - Supplemental Testimony of Jay Haley; A22-1 - Exhibit 1 - Supplemental Material That Updates Sound Study to Reflect Landowner Participation Status; A22-2 - Exhibit 2 - Tables: Crowned Ridge Sound Level Tabular Results Sorted by Receptor ID; A22-3 - Exhibit 3 - Supplemental Material That Updates Shadow/Flicker Study to Reflect Landowner Participation Status; A23 - Supplemental Testimony of Tyler Wilhelm and</p>	
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	<p>Sam Massey; A24 - Supplemental Testimony of Christopher Ollson; A24-1 - Exhibit 1 - Christopher Ollson Curriculum Vitae; A24-2 - Exhibit 2 - "Health Effects and Wind Turbines: A Review of the Literature," Knopper & Ollson; A24-3 - Exhibit 3 - "Effects of Wind Turbine Noise on Self-Reported and Objective Measures of Sleep," Michaud et al.; A24-4 - Exhibit 4 - "Impact of Wind Turbine Sound on Annoyance, Self-Reported Sleep Disturbance and Psychological Distress," Bakker et al.; A24-5 - Exhibit 5 - "Before-After Field Study of Effects of Wind Turbine Noise on Polysomnographic Sleep Parameters," Jalai et al.; A24-6 - Exhibit 6 - "Health-based Audible Noise Guidelines Account for Infrasound and Low-Frequency Noise Produced by Wind Turbines," Berger et al.; A24-7 - Exhibit 7 - "Measurement and Level of Infrasound From Wind Farms and Other Sources," Turnbull et al.; A24-8 - Exhibit 8 - "Wind Turbines and Health, A Critical Review of the Scientific Literature," McCunney et al.; A24-9 - Exhibit 9 - "Low-frequency Noise Including Infrasound From Wind Turbines and Other Sources," Baden-Wurttemberg; A24-10 - Exhibit 10 - "Wind Turbines and Human Health," Knopper et al.; A24-11 - Exhibit 11 - "Exposure to Wind Turbine Noise: Perceptual Responses and Reported Health Effects," Michaud et al.; A24-12 - Exhibit 12 - "Estimating Annoyance to Calculated Wind Turbine Shadow Flicker is Improved When Variables Associated with Wind Turbine Noise Exposure are Considered," Voicccscu et al.; A24-13 - Exhibit 13 - "Notes on the Identification and Evaluation of Optical Emissions from Wind Turbines," (in German) Landerausschuss fur Immissionsschutz; A24-13A - Exhibit 13 - "Notes on the Identification and Evaluation of Optical Emissions from Wind Turbines," (in English); A24-14 - Exhibit 14 - "Wind Turbines and Photosensitive Epilepsy," Epilepsy Society; A24-15 - Exhibit 15 - "Wind Turbines Flicker, and Photosensitive Epilepsy: Characterizing the Flashing That May Precipitate Seizures and</p>	
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		Wind Turbines, Noise Control Engineering Journal; A50 - Transcript of Public Service Commission of Wisconsin - October 10, 2012, Docket N. 2535-CE-100; A51 - Minnesota Regulation on Sound - 7030.0050 Noise Area Classification and 7030.0040 Noise Standards; A53 - Final Land Status Map; A54 - Replacement Final Land Status Map; A55 - Proposed Turbine Drops and Moves; A56 - Appendix D Sound ISO-Lines Map Book Hessler; A57 - Appendix C-3 Sound Results Table Rev 6; A58 - Final Land Status and Hessler 7 on Intervenors; A59 - Final Land Status and Hessler 7 Turbine Moves; A60 - Hessler 7 on Hessler Identified Non Participants; A61 - Joint Stipulation of Agreed to Conditions Between Crowned Ridge and PUC Staff; A62 - FAA Pending Turbine Locations; A63 - Amended Condition 26 (Sound Level); A64 - Granquist Option Confidential (not available to the public); A65 - Papio Valley Land Confidential (not available to the public); A66 - Crowned Ridge Wind, LLC's Letter regarding Extreme Cold Weather Package; A67 - Appendix C-1 Shadow Results Table Rev5; A68 - Appendix C-2 Shadow Results Table Rev5; A69 - Insurance Confidential (not available to the public); and A70 - Turbines and Grasslands	
103.	6/12/19	Evidentiary Hearing Exhibits - https://puc.sd.gov/Dockets/Electric/2019/EL19-003evidentiaryexhibits.aspx	12824-12829
104.	6/12/19	Evidentiary Hearing Exhibits – Intervenors’ Exhibits - I1 - Public Service Commission of Wisconsin - A Cooperative Measurement Survey and Analysis of Low Frequency and Infrasound at the Shirley Wind Farm in Brown County, Wisconsin; I2 - NARUC - 2011 - Assessing Sound Emissions from Proposed Wind Farms & Measuring the Performance of Completed Projects; I3- Paul Schomer, and Pranav Krishna Pamidighantam - A Possible Criterion for Wind Farms; I4 - Research Gate - Health Effects From Wind Turbine Low Frequency Noise & Infrasound: Do Wind Turbines Make People Sick? That is the Issue;	19528-20060

		<p>I5 - David M. Hessler and George F. Hessler Jr. - Recommended Noise Level Design Goals and Limits at Residential Receptors for Wind Turbine Developments in the United States; I6 - Partial Transcript of the Evidentiary Hearing of EL18-026; I7 - Canons of Ethics for the Institute of Noise Control Engineering of the USA; I8 - Night Time Noise Guidelines 2009 (WHO); I9a -Ollson 2014 Suncor Statement; I9b -Ollson 2014 Suncor Statement; I10 -Oil Son 2014 Presentation; I11 -Thyen Exhibit A Memorandum 2007; I12 - Thyen Exhibit B Release Letter 2012; I13 - Thyen Exhibit C Sound Map 2019.5.24; I14 -IAIA Assessment; I15a - DR to Intervenors 4-1; I15b - Jay Haley Resume; I16 -SD License Search Mr. Haley; I17a -ND License Search Mr. Haley; I17b -ND License Search Mr. Haley; I18 -MN License Search Mr. Haley; I19 -MN license affidavit Mr. Haley; I20 -Mr. Haley Cover letter App H 1/22/19; I21 -Mr. Haley Cover letter App I 1/22/19; I22 -Mr. Haley Cover letter Updated Appendices Sound A-D 2/19/19; I23 -Mr. Haley Cover letter Updated; Appendices Flicker A-0 2/19/19; I24 -Mr. Haley Cover letter Landowner Participation Sound 2/26/19; I25 - Mr. Haley Cover letter Landowner Participation Flicker 2/26/19; I26 -Mr. Haley Cover letter Additional Structures Sound Ex 1 2/19/19; and I27 -Mr. Haley Cover letter Additional Structures Flicker Ex 3 2/19/19</p>	
105.	6/12/19	<p>Evidentiary Hearing Exhibits – Staff’s Exhibits - S1 - Direct Testimony of David M. Hessler with Exhibits; S1a - Staff’s Responses to Applicant’s First Data Request; S2 - Direct Testimony of Darren Kearney with Exhibits; S2 - Direct Testimony of Darren Kearney with Exhibits Confidential (not available to the public); S3 - Direct Testimony of Tom Kirschenmann with Exhibits; S4 - Direct Testimony of Paige Olson with Exhibits; S5 - Additional Staff Data Requests; S5 - Additional Staff Data Requests Confidential (not available to the public); S6 - Supplemental Responses to Staff Data Request 6; S7 - Staff’s Proposed Lek</p>	<p>17902-18599 Confidential 18600-19274 19275-19406 Confidential 19407-19522 19523-19527</p>

		Monitoring Condition; and Judicial Notice - SB16	
106.	6/11/19	Evidentiary Hearing Sign In Sheets; and Transcript	12253-12504
107.	6/12/19	Evidentiary Hearing Sign In Sheets; and Transcript	12521-12823
108.	7/26/19	Final Decision and Order Granting Permit to Construct Facility; Notice of Entry with Permit Conditions	20684-20714
109.	6/12/19	Intervenors' Brief	12898-12911
110.	6/17/19	Intervenors' Cross Examination Exhibits -I28 - Geronimo Sale Bill; I29 - Fourth Data Response Applicant to Intervenors; I30 - Haley Public Hearing Transcripts; and I31 - NextEra Landowner Liens and Article	20124-20145
111.	5/28/19	Intervenors' Data Requests (Fifth Set) to Applicant Certificate of Service	4864-4865
112.	5/13/19	Intervenors' Data Requests (First Set) to Applicant Certificate of Service	3506-3507
113.	5/22/19	Intervenors' Data Requests (Fourth Set) to Applicant Certificate of Service	3562-3563
114.	5/15/19	Intervenors' Data Requests (Third Set) to Applicant Certificate of Service	3513-3514
115.	6/20/19	Intervenors' Email and Cross-Examinations Exhibits Certificate of Service	20167-20168
116.	6/19/19	Intervenors' Email regarding Late Application for Party Status	20153
117.	6/5/19	Intervenors' Exhibit and Witness List; I8 - Night Time Noise Guidelines 2009 (WHO); I9a -Ollson 2014 Suncor Statement; I9b -Ollson 2014 Suncor Statement; I10 -Oil Son 2014 Presentation; I11 -Thyen Exhibit A Memorandum 2007; I12 - Thyen Exhibit B Release Letter 2012; I13 - Thyen Exhibit C Sound Map 2019.5.24; I14 -IAIA Assessment; I15a - DR to Intervenors 4-1; I15b - Jay Haley Resume; I16 -SD License Search Mr. Haley; I17a -ND License Search Mr. Haley; I17b -ND License Search Mr. Haley; I18 -MN License Search Mr. Haley; I19 -MN license affidavit Mr. Haley; I20 -Mr. Haley Cover letter App H 1/22/19; I21 -Mr. Haley Cover letter App I 1/22/19; I22 -Mr. Haley Cover letter Updated Appendices Sound A-D 2/19/19; I23 -Mr. Haley Cover letter Updated Appendices Flicker A-0 2/19/19; I24 -Mr. Haley Cover letter	6561-6943

		Landowner Participation Sound 2/26/19; I25 - Mr. Haley Cover letter Landowner Participation Flicker 2/26/19; I26 -Mr. Haley Cover letter Additional Structures Sound Ex 1 2/19/19; I27 - Mr. Haley Cover letter Additional Structures Flicker Ex 3 2/19/19; and Certificate of Service	
118.	4/25/19	Intervenors' Letter and Intervenors' Motion to Deny and Dismiss; Intervenors' Brief in Support of Motion to Deny and Dismiss; Patrick Lynch's Affidavit, Exhibit A – Memorandum of Leases and Easements; and Certificate of Service	1957-1985
119.	5/31/19	Intervenors' Letter regarding List of Exhibits; I1 - Public Service Commission of Wisconsin - A Cooperative Measurement Survey and Analysis of Low Frequency and Infrasound at the Shirley Wind Farm in Brown County, Wisconsin; I2 - NARUC - 2011 - Assessing Sound Emissions from Proposed Wind Farms & Measuring the Performance of Completed Projects; I3- Paul Schomer, and Pranav Krishna Pamidighantam - A Possible Criterion for Wind Farms; I4 - Research Gate - Health Effects From Wind Turbine Low Frequency Noise & Infrasound: Do Wind Turbines Make People Sick? That is the Issue; and I5 - David M. Hessler and George F. Hessler Jr. - Recommended Noise Level Design Goals and Limits at Residential Receptors for Wind Turbine Developments in the United States	6348-6505
120.	5/23/19	Intervenors' Notice of Transmittal; and Certificate of Service	3566-3573
121.	7/8/19	Intervenors' Objection to Late Filed Evidence and Motion to Strike; and Certificate of Service	20543-20549
122.	7/2/19	Intervenors' Post-Hearing Brief; Exhibit A - Intervenors' Proposed Findings of Fact and Conclusions of Law; and Certificate of Service	20257-20358
123.	7/2/19	Intervenors' Proposed Findings of Fact and Conclusions of Law; and Certificate of Service	20359-20444
124.	3/28/19	Intervenors Response to Crowned Ridge Wind LLC Response to the Motion for Procedural Schedule; Crowned Ridge Wind, LLC's Letter to Patricia Van Gerpen Dated February 27, 2019; Email Correspondence; and Certificate of Service	1371-1384

125.	5/6/19	Intervenors' Responses to Applicant's First Set of Data Requests Certificate of Service	2028
126.	4/23/19	Intervenors' Responses to PUC Staff's First Set of Data Requests Certificate of Service	1948-1952
127.	4/25/19	Intervenors' Responses to PUC Staff's First Set of Data Requests Certificate of Service	1986-1990
128.	5/17/19	Intervenors' Second Motion to Deny and Dismiss; Brief of Intervenors in Support of Second Motion to Deny and Dismiss; Patrick Lynch's Affidavit; and Certificate of Service	3523-3555
129.	4/29/19	Intervenors' Supplemental Certificate of Service for Intervenors' Motion to Deny	1997-1998
130.	5/10/19	Intervenors' Pre-filed Direct Testimony - Testimony of Allen Robish	2096
131.	6/3/19	Intervenors' Pre-Filed Exhibits - I6 - Partial Transcript of the Evidentiary Hearing of EL18-026; and I7 - Canons of Ethics for the Institute of Noise Control Engineering of the USA	6513-6535
132.	2/6/19	Kristi Mogen's Party Status Application	1031
133.	3/1/19	Melissa Lynch's Party Status Application	1151
134.	6/11/19	Motion Hearing Transcript	12245-12252
135.	2/6/19	Notice of Application; Order for and Notice of Public Input Hearing; Notice of Opportunity to Apply for Party Status	1026-1027
136.	3/22/19	Order Admitting Brian J. Murphy Pro Hac Vice; and Certificate of Service	1323-1325
137.	2/22/19	Order Assessing Filing Fee; Order Authorizing Executive Director to Enter Into Consulting Contacts; Order Granting Party Status (Amber Christenson, Allen Robish, and Kristi Mogen)	1070-1071
138.	6/26/19	Order Denying Late-Filed Application for Party Status	20222-20223
139.	5/10/19	Order Denying Motion to Deny and Dismiss; Order to Amend Application	2092-2093
140.	5/10/19	Order For and Notice of Evidentiary Hearing	2094-2095
141.	5/30/19	Order For and Notice of Motion for Exception to Procedural Schedule on Less Than 10 Days' Notice	4886-4887
142.	6/12/19	Order For and Notice of Motion for Exception to Procedural Schedule on Less Than 10 Days' Notice	12519-12520
143.	5/22/19	Order For and Notice of Motion Hearing	3560-3561
144.	4/30/19	Order For and Notice of Motion Hearing on Less Than 10 Days' Notice	1999-2000
145.	3/21/19	Order Granting Party Status (Melissa Lynch)	1322

146.	4/5/19	Order Granting Party Status; Order Establishing Procedural Schedule (Patrick Lynch)	1463-1464
147.	7/31/19	Order Granting Request to Approve Public Liaison Officer	20837
148.	6/18/19	Order Setting Post-Hearing Briefing Schedule and Decision Date	20146-20147
149.	2/6/19	Party Status Applications - https://puc.sd.gov/Dockets/Electric/2019/EL19-003partystatus.aspx	1028
150.	3/25/19	Patrick Lynch's Party Status Application	1328
151.	5/10/19	Pre-Filed Direct Testimony of Darren Kearney; Exhibit_DK-1 - Resume; Exhibit_DK-2 - Crowned Ridge Wind, LLC's Responses to Staff Data Requests; Exhibit_DK-2 - Crowned Ridge Wind, LLC's Responses to Staff Data Requests Confidential (not available to the public); Exhibit_DK-3 - Intervenors' Responses to Staff Data Requests; Exhibit_DK-4 - South Dakota Department of Health Letter ; Exhibit_DK-5 - Commission Staff Letter to SD DENR; Exhibit_DK-6 - SD DENR Response Letter to Commission Staff; Exhibit_DK-7 - Map of Crowned Ridge and Dakota Range Wind Turbines; Exhibit_DK-8 - Intervenors' Recommended Permit Conditions; and Certificate of Service	2204-2856 Confidential 2857-3482 3483-3505
152.	5/10/19	Pre-filed Direct Testimony of David Hessler; Exhibit DMH-1 – Resume; and Exhibit DMH-2 - Turbines Impacting Non-Participating Residences Noise Levels	2118-2137
153.	5/10/19	Pre-filed Direct Testimony of Tom Kirschenmann; Exhibit TK-1 – Resume; Exhibit TK-2 - Effect of Wind Energy Development on Breeding Duck Densities in the Prairie Pothole Region; and Exhibit TK-3 - Effects of Wind-Energy Facilities on Breeding Grassland Bird Distributions	2138-2203
154.	6/3/19	Pre-filed Exhibits and Witness Lists for Evidentiary Hearing - https://puc.sd.gov/Dockets/Electric/2019/EL19-003exhibits.aspx	6506-6512
155.	1/30/19	Pre-filed Testimonies and Exhibits; Supplemental Testimonies and Exhibits and Rebuttal Testimonies and Exhibits - https://puc.sd.gov/Dockets/Electric/2019/EL19-003testimony.aspx	961-964

156.	1/30/19	Pre-filed Testimony and Exhibits of Tyler Wilhelm and Sam Massey	1007-1023
157.	1/30/19	Pre-filed Testimony of Jay Haley	965-976
158.	1/30/19	Pre-filed Testimony of Kimberly Wells, PH.D.	977-993
159.	1/30/19	Pre-filed Testimony of Mark Thompson	994-1006
160.	6/21/19	Proposed Intervenors Timothy Lindgren & Linda Lindgren's Letter regarding Its Brief and Confidentiality (not available to the public); and Certificate of Service	Confidential 20169-20173 20174-20175
161.	6/24/19	Proposed Intervenors Timothy Lindgren & Linda Lindgren's Letter regarding Party Status Application; and Certificate of Service	20176-20180
162.	3/20/19	Public Input Hearing - Party Status Application; Energy Conversion& Electric Transmission Facilities Siting Info Guide; Sign In Sheets; Presentation; Comments of Bill Street; Comments of Wayne Borgheiinck and Attachment; Comments of Allen Robish and Attachment; Comments of Linda Lindgren; Comments of Timothy Lindgren; Comments of Jim Nichols; Comments of Amber Christenson; Comments of Patrick Lynch; Comments of Kristi Mogen; Additional Comments of Kristi Mogen; Attachment; Comments of Bill Street Confidential (not available to the public);Allen Robish's Attachment Confidential (not available to the public); Comments of Linda Lindgren Confidential (not available to the public); Comments of Timothy Lindgren Confidential (not available to the public); Comments of Jim Nichols Confidential (not available to the public); Comments of Amber Christenson Confidential (not available to the public); Comments of Patrick Lynch Confidential (not available to the public); Comments of Kristi Mogen Confidential (not available to the public); Additional Comments of Kristi Mogen Confidential (not available to the public); Attachment Confidential (not available to the public); and Transcript	1200-1277 Confidential 1278-1321 1321a-1321cw
163.	5/9/19	PUC Ad Hoc Commission Meeting Agenda	2052-2053
164.	6/6/19	PUC Ad Hoc Commission Meeting Agenda	12060-12061
165.	6/25/19	PUC Ad Hoc Commission Meeting Agenda	20189-20192
166.	5/9/19	PUC Ad Hoc Commission Meeting Minutes	2054
167.	6/6/19	PUC Ad Hoc Commission Meeting Minutes	12062

168.	6/25/19	PUC Ad Hoc Commission Meeting Minutes	20193-20195
169.	2/15/19	PUC Commission Meeting Agenda	1056-1060
170.	3/19/19	PUC Commission Meeting Agenda	1185-1188
171.	4/2/19	PUC Commission Meeting Agenda	1434-1435
172.	7/9/19	PUC Commission Meeting Agenda	20556-20560
173.	7/25/19	PUC Commission Meeting Agenda	20674-20679
174.	2/15/19	PUC Commission Meeting Minutes	1061-1064
175.	3/19/19	PUC Commission Meeting Minutes	1189-1191
176.	4/2/19	PUC Commission Meeting Minutes	1436-1437
177.	7/9/19	PUC Commission Meeting Minutes	20561-20564
178.	7/25/19	PUC Commission Meeting Minutes	20680-20683
179.	3/28/19	PUC Staff's Affidavit of Publication - Grant County Review (February 20 & March 13); South Shore Gazette (February 21 & March 14); and The Watertown Public Opinion (February 20 & March 13)	1366-1370
180.	8/6/19	PUC Staff's Email regarding Tom Kirschenmann, Game, Fish and Park's Email	20865-20866
181.	5/13/19	PUC Staff's Fifth Set of Data Requests to Applicant Certificate of Service	3508
182.	2/5/19	PUC Staff's First Set of Data Requests to Applicant Certificate of Service	1025
183.	4/8/19	PUC Staff's First Set of Data Requests to Intervenor Certificate of Service	1465
184.	5/2/19	PUC Staff's Fourth Set of Data Requests to Applicant Certificate of Service	2023
185.	6/5/19	PUC Staff's Letter regarding Applicant's Response to Staff's Sixth Data Request; Attachment A - Applicant's Response to Staff's Sixth Data Request (6-4, 6-5, 6-6 and 6-7)	11405-11407
186.	2/26/19	PUC Staff's Letter; and Paige Olson's Subpoena and Admission of Service	1072-1074
187.	2/26/19	PUC Staff's Letter; and Tom Kirschenmann's Subpoena and Admission of Service	1075-1077
188.	3/26/19	PUC Staff's Motion for Procedural Schedule; and Certificate of Service	1335-1339
189.	5/23/19	PUC Staff's Request for Exception to Procedural Schedule; and Certificate of Service	3598-3600
190.	5/23/19	PUC Staff's Responses to Applicant's First Set of Data Requests Certificate of Service	3574
191.	3/1/19	PUC Staff's Second Set of Data Requests to Applicant Certificate of Service	1153
192.	4/8/19	PUC Staff's Third Set of Data Requests to Applicant, Attachment to DR3-3 Certificate of Service	1466

193.	2/19/19	PUC's Letter to SDNA regarding Notice; and Notice of Public Hearing	1065-1067
194.	5/28/19	Rebuttal Testimony Exhibits 1 & 2 for Jay Haley - Exhibit_JH-R-1 - Crowned Ridge Wind Farm Shadow Flicker Iso-Lines Overview Map; Certificate of Service; Exhibit_JH-R-2 - Crowned Ridge Wind Farm Sound Pressure Iso-Lines Overview Map; Certificate of Service (see 5/24/19 filing);	4868-4885
195.	5/24/19	Rebuttal Testimony of Andrew Baker; Exhibit_AB-R-1 – Qualifications; Exhibit_AB-R-2 - Valbridge Property Advisors - Value Impact Study Report; Exhibit_AB-R-3 - The Windy City: Property Value Impacts of Wind Turbines in an Urban Setting; and Certificate of Service	3918-4131
196.	5/24/19	Rebuttal Testimony of Chris Ollson; Exhibit_CO-R-1 - Noise Annoyance in Canada; Exhibit_CO-R-2 - The UK National Noise Attitude Survey 1999/2000 - Noise Forum Conference 20 May 2002; Exhibit_CO-R-3 - The Association Between Self-Reported and Objective Measures of Health and Aggregate Annoyance Scores Toward Wind Turbine Installations; Exhibit_CO-R-4 - An Assessment of Quality of Life Using the WHOQOL-BREF Among Participants Living in the Vicinity of Wind Turbines; Exhibit_CO-R-5 - The Effects of Environmental and Classroom Noise on the Academic Attainments of Primary School Children; Exhibit_CO-R-6 - Low-frequency Noise Incl. Infrasound From Wind Turbines and Other Sources; Exhibit_CO-R-7 - The Pattern of Complaints about Australian Wind Farms Does Not Match the Establishment and Distribution of Turbines: Support for the Psychogenic, ‘Communicated Disease’ Hypothesis; and Certificate of Service	3728-3917
197.	5/24/19	Rebuttal Testimony of Dr. Robert McCunney; Exhibit_RM-R-1 - Curriculum Vitae; Exhibit_RM-R-2 - Guidelines for the Diagnosis and Management of Asthma; Exhibit_RM-R-3 - The Scope for Biased Recall of Risk-Factor Exposure in Case-Control Studies: Evidence from a Cohort Study of Scottish Men; Exhibit_RM-R-4 - The Placebo and Nocebo	4132-4369

		Phenomena: Their Clinical Management and Impact on Treatment Outcomes; Exhibit_RM-R-5 - Nocebo Effect of Informed Consent in Interventional Procedures; Exhibit_RM-R-6 - The Nocebo Effect in the Context of Statin Intolerance; Exhibit_RM-R-7 - Fright Factors About Wind Turbines and Health in Ontario Newspapers Before and After the Green Energy Act; Exhibit_RM-R-8 - The Pattern of Complaints about Australian Wind Farms Does Not Match the Establishment and Distribution of Turbines: Support for the Psychogenic, 'Communicated Disease' Hypothesis; Exhibit_RM-R-9 - Can Road Traffic Mask Sound from Wind Turbines? Response to Wind Turbine Sound at Different Levels of Road Traffic Sound; and Certificate of Service	
198.	5/24/19	Rebuttal Testimony of Jay Haley; Exhibit_JH-R-3 - Crowned Ridge Sound Level Tabular Results Sorted by Sound Level Realistic; Exhibit_JH-R-4 - Crowned Ridge Sound Level Tabular Results Sorted by Sound Level (16 Turbines Removed); Exhibit_JH-R-5 - Crowned Ridge Sound Level Tabular Results Sorted by Receptor ID Realistic; and Certificate of Service	4701-4747
199.	5/24/19	Rebuttal Testimony of Richard Lampeter; Exhibit_RL-R-1 - Curriculum Vitae; Exhibit_RL-R-2 - Wind Turbine Health Impact Study: Report of Independent Expert Panel - January 2012; Exhibit_RL-R-3 - Assessing Sound Emissions From Proposed Wind Farms & Measuring the Performance of Completed Projects; Exhibit_RL-R-4 - Noise Control Engineering Journal - March-April 2011; and Certificate of Service	4370-4655
200.	5/24/19	Rebuttal Testimony of Sarah Sappington; Exhibit_SS-R-1 – Maps; and Certificate of Service	4656-4700
201.	5/24/19	Rebuttal Testimony of Tyler Wilhelm and Sam Massey; Exhibit_TW-SM-R-1 - Letter From Dennis Schmeling; Exhibit_TW-SM-R-2 - Updated Maps; and Certificate of Service	4748-4818
202.	5/6/19	Reply Brief of Intervenors in Support of Motion to Deny and Dismiss; and Certificate of Service	2029-2051

203.	5/28/19	Reply Brief of Intervenors to Second Motion and Motion to Take Judicial Notice; and Certificate of Service	4842-4863
204.	7/18/19	Response to Wind Energy Supporters; Comments of Jeannie Hoagland; and Comments of Jeannie Hoagland Confidential (not available to the public)	20666-20667 Confidential 20668-20669
205.	5/10/19	Staff's Pre-filed Direct Testimony - Pre-filed Direct Testimony of Paige Olson; and Exhibit PO-1 - Resume	2105-2117
206.	6/6/19	Staff's Pre-Filed Exhibits - S5 - Additional Staff Data Requests	11423-11475
207.	6/7/19	Staff's Pre-Filed Exhibits - S5 - Additional Staff Data Requests Confidential (not available to the public); S6 - Supplemental Responses to Staff Data Request 6	Confidential 12063-12178 12179
208.	6/11/19	Staff's Pre-Filed Exhibits - S7 - Staff's Proposed Lek Monitoring Condition; and Certificate of Service	12205
209.	7/2/19	Staff's Letter regarding Agency Correspondence Provided to Staff and NextEra; and Agency Correspondence from US Fish and Wildlife	20511-20518
210.	6/13/19	Staff's Letter regarding Exhibit S8; S8 - Surrebuttal Testimony of David Lawrence in Docket EL18-003; and Certificate of Service	20061-20100
211.	7/2/19	Staff's Post Hearing Brief; and Certificate of Service	20492-20510
212.	6/18/19	Staff's Response to Late Application for Party Status; and Certificate of Service	20148-20151
213.	4/30/19	Staff's Response to Motion to Deny and Dismiss; and Certificate of Service	2001-2006
214.	5/30/19	Staff's Witness and Exhibit List; S1 - Direct Testimony of David M. Hessler with Exhibits; S1a - Staff's Responses to Applicant's First Data Request; S2 - Direct Testimony of Darren Kearney with Exhibits; S2 - Direct Testimony of Darren Kearney with Exhibits Confidential (not available to the public); S3 - Direct Testimony of Tom Kirschenmann with Exhibits; and S4 - Direct Testimony of Paige Olson with Exhibits	4891-5590 Confidential 5591-6265 6266-6344
215.	4/9/19	Supplemental Testimony of Christopher Ollson; Exhibit 1 -Christopher Ollson Curriculum Vitae; Exhibit 2 - "Health Effects and Wind Turbines: A Review of the Literature," Knopper& Ollson; Exhibit 3 - "Effects of Wind	1563-1924

		<p>Turbine Noise on Self-Reported and Objective Measures of Sleep,” Michaud et al.; Exhibit 4 - “Impact of Wind Turbine Sound on Annoyance, Self-Reported Sleep Disturbance and Psychological Distress,” Bakker et al. ; Exhibit 5 - “Before-After Field Study of Effects of Wind Turbine Noise on Polysomnographic Sleep Parameters,” Jalai et al.; Exhibit 6 - “Health-based Audible Noise Guidelines Account for Infrasound and Low-Frequency Noise Produced by Wind Turbines,” Berger et al.; Exhibit 7 - “Measurement and Level of Infrasound From Wind Farms and Other Sources,” Turnbull et al.; Exhibit 8 - “Wind Turbines and Health, A Critical Review of the Scientific Literature,” McCunney et al.; Exhibit 9 - “Low-frequency Noise Including Infrasound From Wind Turbines and Other Sources,” Baden-Wurtemberg; Exhibit 10 - “Wind Turbines and Human Health,” Knopper et al.; Exhibit 11 - “Exposure to Wind Turbine Noise: Perceptual Responses and Reported Health Effects,” Michaud et al.; Exhibit 12 - “Estimating Annoyance to Calculated Wind Turbine Shadow Flicker is Improved When Variables Associated with Wind Turbine Noise Exposure are Considered,” Voicescu et al.; Exhibit 13 - “Notes on the Identification and Evaluation of Optical Emissions from Wind Turbines,” (in German) Landerausschuss fur Immissionschutz; Exhibit 14 - “Wind Turbines and Photosensitive Epilepsy,” Epilepsy Society; Exhibit 15 - “Wind Turbines, Flicker, and Photosensitive Epilepsy: Characterizing the Flashing That May Precipitate Seizures and Optimizing Guidelines to Prevent Them,” Harding et al.; Exhibit 16 - “Potential of Wind Turbines to Elicit Seizures Under Various Meteorological Conditions,” Smedley et al.; Exhibit 17 - “Update of UK Shadow Flicker Evidence Base,” Department of Energy and Climate Change; and Certificate of Service</p>	
216.	4/9/19	<p>Supplemental Testimony of Jay Haley; Exhibit 1 -Supplemental Material That Updates Sound Study to Reflect Landowner Participation Status; Exhibit 2 - Tables: Crowned Ridge</p>	1474-1551

		Sound Level Tabular Results Sorted by Receptor ID; Exhibit 3 -Supplemental Material That Updates Shadow/Flicker Study to Reflect Landowner Participation Status	
217.	4/9/19	Supplemental Testimony of Tyler Wilhelm and Sam Massey	1552-1562
218.	3/1/19	Thomas Kirschenmann's Admission of Service	1152
219.	6/13/19	Timothy Lindgren & Linda Lindgren's Party Status Application; and Certificate of Service	20101-20104
220.	4/2/19	Transcript of April 2, 2019, Commission Meeting	1438-1460
221.	7/9/19	Transcript of July 9, 2019, Commission Meeting	20565-20652
222.	6/25/19	Transcript of June 25, 2019, Ad Hoc Commission Meeting	20196-20209
223.	5/9/19	Transcript of May 9, 2019, Ad Hoc Commission Meeting	2055-2091
224.	1/31/19	Weekly Filing - https://puc.sd.gov/WeeklyFiling/2019/012419-013019.aspx	1024
225.	7/15/19	Wind Energy Supporter Emails - Mato Cutschall;	20655 Confidential 20656
226.	7/17/19	Wind Energy Supporter Emails - Michael Kline and Francine Parker ; and Wind Energy Supporter Emails - Michael Kline and Francine Parker Confidential (not available to the public)	20657-20658 Confidential 20659-20660
227.	7/10/19	Wind Energy Supporter Emails - Stephanie Hansen; and Stephanie Hansen Confidential (not available to the public)	20653 Confidential 20654