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

#### IN THE MATTER OF THE APPLICATION OF CROWNED RIDGE WIND, LLC FOR A FACILITIES PERMIT TO CONSTRUCT A 300 MEGAWATT WIND FACILITY

Docket No. EL19-003

#### SUPPLEMENTAL TESTIMONY

#### OF TYLER WILHELM AND SAM MASSEY

May 24, 2019

1		INTRODUCTION
2	Q.	PLEASE STATE YOUR NAMES AND BUSINESS ADDRESS.
3	A.	Tyler Wilhelm and Sam Massey. Our business address is 700 Universe Blvd., Juno
4		Beach, Florida, 33408.
5		
6	Q.	BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?
7	Α.	We are both employed by NextEra Energy Resources, LLC. Mr. Wilhelm is a Project
8		Manager of Renewable Development, while Mr. Massey is Director of Renewable
9		Development.
10		
11	Q.	WHAT ARE YOUR RESPONSIBILITIES?
12	А.	Together, we are responsible for the development, permitting, community outreach,
13		regulatory compliance, and meeting the commercial operations date for the up to 300
14		megawatt Crowned Ridge Wind, LLC ("CRW") generation project ("Project").
15		
16	Q.	ARE YOU THE SAME TYLER WILHELM AND SAM MASSEY WHO
17		SUBMITTED DIRECT TESTIMONY IN THIS PROCEEDING ON JANUARY 30,
18		2019 AND SUPPLEMENTAL TESTIMONY ON APRIL 10, 2019?
19	А.	Yes.
20 21	Q.	HAS THIS TESTIMONY BEEN PREPARED BY YOU OR UNDER YOUR
22	Q.	DIRECT SUPERVISION?
	٨	
23	А.	Yes.
24		

1		TESTIMONY
2		
3	Q.	PLEASE DESCRIBE THE PURPOSE OF THE TESTIMONY.
4	А.	The purpose of our testimony is to address the direct testimony of Staff witness Darren
5		Kearney, Staff witness David Hessler, Intervenor John Thompson, and Intervenors'
6		proposed conditions as set forth in Staff witness Darren Kearney's Direct Testimony,
7		Exhibit DK-8.
8		
9		Shadow/Flicker Waiver
10	Q.	STAFF WITNESS KEARNEY'S TESTIMONY AT PAGE 10, LINES 22-33
11		STATES THAT IF CRW CANNOT OBTAIN A WAIVER FOR A NON-
12		PARTICIPATING RECEPTOR (CR1-C61-NP), WHO IS EXPECTED TO
13		EXPERIENCE 49 HOURS AND 6 MINUTES OF SHADOW FLICKER PER
14		YEAR, CRW SHOULD ELIMINATE THE USE OF THE WIND TURBINE
15		CAUSING THE SHADOW/FLICKER OR AUTOMATICALLY CONTROL THE
16		TURBINE SO THAT THE RECEPTOR DOES NOT EXPERIENCE OVER 30
17		HOURS OF SHADOW/FLICKER PER YEAR. WITNESS KEARNEY ALSO
18		REQUESTS THAT CRW PROVIDE IN REBUTTAL TESTIMONY THE FINAL
19		PLAN FOR LIMITING SHADOW/FLICKER AT RECEPTOR (CR1-C61-NP).
20		WHAT IS YOUR FINAL PLAN FOR LIMITING SHADOW/FLICKER AT THE
21		<b>RECEPTOR IN QUESTION?</b>

A. For this receptor, if a waiver is not obtained by the issuance of the Commission's finalorder in this proceeding, CRW's final plan will be to curtail turbine CR-16 by

approximately 20 hours on an annual basis to avoid shadow flicker in excess of 30 hours/year on receptor CR1-C61-NP.

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# 4 Q. STAFF WITNESS KEARNEY'S TESTIMONY AT PAGE 11, LINES 9-12 5 REQUESTS THAT CRW SUBMIT A MITIGATION STRATEGY FOR 6 PARTICIPATING RECEPTOR (CR1-C106-P). WHAT IS THE MITIGATION 7 STRATEGY?

- 8 A. The landowner has confirmed that this receptor is an unoccupied structure. The structure 9 has been vacant for over 40 years and the landowner plans to remove the structure once 10 allowed by the local fire department. See Exhibit TW-SM-R-1. Given the receptor is an 11 unoccupied structure that will be removed, no mitigation is necessary.
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#### **Status of County Permits**

Q. STAFF WITNESS KEARNEY'S TESTIMONY AT PAGES 13-15 PROVIDES AN
OVERVIEW OF THE COUNTY PERMITTING OF CRW AND REQUEST A
STATUS UPDATE. HAS CRW OBTAINED ALL PERMITS NEEDED FROM
GRANT COUNTY TO CONSTRUCT THE CROWNED RIDGE WIND
FACILITY?

A. Yes. The required Grant County Permits have been issued and remain in effect. CRW
was issued a Conditional Use Permit ("CUP") on December 17, 2018, for a wind energy
system in Grant County, South Dakota. Certain individuals have appealed the issuance
of the CUP by filing a Petition for Writ of Certiorari dated January 17, 2019. The Writ

has been issued and the Return to the Writ was served April 2, 2019. The matter remains
 pending in Circuit Court.

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Cattle Ridge Wind Farm, LLC was issued a Conditional Use Permit for the remaining
footprint of the Crowned Ridge Wind project within Grant County on April 8, 2019.
Findings of Fact were entered April 18, 2019, and to date we have not been informed of
an appeal.

## 8 Q. HAS CROWNED RIDGE WIND OBTAINED ALL PERMITS NEEDED FROM 9 CODINGTON COUNTY TO CONSTRUCT THE CROWNED RIDGE WIND 10 FACILITY?

A. Yes. The required Codington County Permits have been issued and remain in effect.
CRW was issued a CUP for the wind energy project within Codington County on July 16,
2018. Certain individuals appealed the issuance of the CUP by Petition for Writ of
Certiorari. Hearing on the Writ has been held and a decision denying the appeal was
entered and filed by the Circuit Court on March 22, 2019. Findings of Fact and
Conclusions of Law were signed by the Court April 30, 2019, and no appeal therefrom
has been served to date.

18Decommissioning Condition19Q.STAFF WITNESS KEARNEY'S TESTIMONY AT PAGE 24, LINE 2620THROUGH PAGE 25, LINE 11 ASSERTS THAT IT IS MORE PRACTICABLE21FOR THE COUNTIES OF GRANT AND CODINGTON TO ACCEPT THE22DECOMMISSIONING ESCROW ACCOUNT ESTABLISHED BY THE

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### COMMISSION, BECAUSE OF THE DIFFERENCES IN THE TWO COUNTIES APPROACHES. DO YOU AGREE?

Yes, CRW agrees with this approach and will engage with Grant and Codington Counties 3 Α. about establishing a uniform escrow agreement that includes requirements consistent with 4 5 the Commission's goals. However, the project does not have the ability to require either county to accept escrow requirements outside of or beyond their existing requirements, so 6 establishing a uniform escrow agreement will ultimately be contingent on approval from 7 8 both counties. CRW has recently engaged Grant County to provide the decommissioning financial security required prior to the start of construction. In the event a uniform escrow 9 agreement is accepted, then CRW will request that the uniform escrow agreement be 10 taken into consideration and ultimately as this financial security is likely to be in place 11 prior to uniform escrow agreement, if adopted. 12

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#### Sound Study

Q. STAFF WITNESS HESSLER'S TESTIMONY AT PAGE 5 LINES 17 TO PAGE 6
LINE 5 CLAIMS THAT CRW SHOULD MOVE 16 PRIMARY TURBINE
LOCATIONS TO ALTERNATIVE LOCATIONS TO REDUCE THE DBA FOR
NON-PARTICIPANTS FROM A RANGE OF 43-45 DBA TO 41 OR 42 DBA. IN
DOING SO, HE INFERS THAT THESE RELOCATIONS CAN BE COMPLETED
WITHOUT AFFECTING THE TOTAL POWER PRODUCT OR ECONOMICS
OF THE PROJECT. DO YOU AGREE WITH HIS INFERENCE?

A. No. A significant part of the development process involved discussing primary turbine
 locations with landowners to engineer access roads and collection in a manner that is

Exhibit A44

compatible with existing farming operations to the extent practicable. To adopt Mr.
 Hessler's recommendation would essentially eliminate the development work with these
 landowners for no material benefit.

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Also, as shown in the Rebuttal Testimony of Jay Haley, the CRW wind project, as designed, does not exceed 45 dBA at the residence of a non-participant nor 50 dBA at the residence of a participant. Using this data, the Rebuttal Testimony of CRW witnesses Chris Ollson and Robert McCunney shows that there are no material health, welfare, or reduction of complaints or annoyance for a sound level below 45 dBA, which demonstrates that there is no material benefit to the non-participants if Mr. Hessler's recommendation is adopted.

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Further, there are economic impacts to CRW if Mr. Hessler's recommendation is 13 adopted. For example, the economic impact of using the turbines identified by Mr. 14 Hessler is substantial since these alternate locations would require incremental collection 15 costs in the range of \$2.5 - \$3.5 million to connect these northern most turbines to the 16 centralized project substation. Additionally, the use of 16 alternative turbines for this 17 purpose would effectively exhaust our alternative turbine locations, which could limit the 18 19 amount of turbines constructed should unexpected conditions be found at the alternative turbine locations or at other primary turbine locations not impacted by Hessler's 20 21 recommendation.

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#### **Non-Participant**

Q. INTERVENOR WITNESS THOMPSON TESTIFIED THAT THE CRW MAP 3A
SHOWING WHO HAS SIGNED EASEMENTS IS NOT CORRECT, BECAUSE
IT SHOWS HIM AS SIGNING AN EASEMENT AGREEMENT AND HE HAS
NOT SIGNED AN EASEMENT AGREEMENT. PLEASE EXPLAIN WHY MR.
THOMPSON WAS INCLUDED ON THE MAP WHEN HE HAD NOT SIGNED
AN EASEMENT AGREEMENT.

When the Cattle Ridge Wind Farm, LLC ("Cattle Ridge Wind") was acquired, Cattle 8 A. Ridge Wind represented to CRW that the Thompson properties were participating in the 9 project. Although James Thompson stated in an email message that the CRW planning 10 map should not show the Thompson proprieties as participating and hosting collector 11 lines, Mr. Wilhelm received a voice mail message from Cheryl Thompson, James 12 Thompson's mother, expressing an interest in participating in the project. Mr. Wilhelm 13 and John Thompson also discussed participation in the project. In response to these 14 inquiries, Russel Lloyd, a land agent for CRW, sent draft easement option documents to 15 the Thompsons. On April 4, 2019, as a follow-up, Mr. Lloyd sent an email to James, 16 John, and Cheryl Thompson seeking to have a call to discuss the easement material. John 17 Thompson emailed back "I don't think we are interested and are busy. It was at that time 18 that Mr. Wilhelm understood the Thompson's were not interested in participating. He 19 then started working with the CRW team to re-locate the planned collector lines off of the 20 Thompson's properties. Mr. Wilhelm also worked with the CRW team to conduct an 21 overall update of the CRW Maps, including Map 3, for land status changes and minor 22 adjustments to project infrastructure to accommodate participating landowners. The task 23

of moving the collector lines off the Thompson's properties was completed on May 14,
2019 and the task of updating the CRW Maps was completed on May 23, 2019. On May
23, 2019, the CRW Maps were filed in the docket, which showed the Thompson
properties as not participating, and, also, showed that there will be no collector lines
located on the Thompson's properties. Map 3 is also attached to this testimony as
Exhibit TW-SM-R-2.

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#### 8 Q. WHERE THERE OTHER UPDATES TO CRW MAPS?

9 A. Yes, the following updates were made to Exhibit TW-SM-R-2 as well as to other CRW
10 Maps filed on May 23, 2019:

1) Revisions to property land statuses. These changes take into account properties 2) where easement option agreements have expired and are subject to renewal 2) (shown as pending on Exhibit TW-SM-R-2), an easement option agreement that 2) will expire prior to the construction of the project that is likely not to be renewed.

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2) Minor refinements to locations of project infrastructure. Notable changes to project infrastructure include (a) the shift of collection from the Thompson property, the removal of collection; (b) removal of a temporary construction easement from the Stricherz property located in Section 22, addition to adjacent property; (c) proposed shifts to access roads for turbines CR-122 through CR-126 at the requests of landowners; (d) minor revisions to collection routing were made on properties throughout the Project, which include collection routing identified at

1		met tower SM01, turbine CR-105, between turbines CR-112 and CR-114, CR-
2		115, CR-116, CR-163, CR- ALT7 and between CR-ALT20 and CR-ALT22.
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4		Intervenors' Proposed Conditions
5	Q.	THE INTERVENORS' PROPOSED CONDITION 1 (KEARNEY EXHIBIT DK-8)
6		WOULD REQUIRE A "2 MILE SETBACK FROM ALL NON-PARTICIPATING
7		LANDOWNERS." DO YOU AGREE WITH THIS PROPOSED CONDITION?
8	A.	No. A 2-mile setback to all non-participating landowners would eliminate all 130
9		turbines in the project. Also, as shown in the rebuttal testimony of CRW witnesses
10		Ollson, McCunney, Haley, and Lampeter, such a setback is not supported from a
11		technical, health, or welfare standpoint. Therefore, CRW does not agree it is appropriate
12		for adoption.
13	Q.	THE INTERVENORS' PROPOSED CONDITION 2 (KEARNEY EXHIBIT DK-8)
14		WOULD REQUIRE A "2 MILE SETBACK FROM THE WAVERLY SCHOOL."
15		DO YOU AGREE WITH THIS PROPOSED CONDITION?
16	А.	No. As currently designed, the closest CRW project turbine to the Waverly School is
17		turbine CR1-94, which is 6,207 feet away. Implementation of a 2-mile setback to the
18		Waverly School would eliminate 13 turbine locations and would impose an unnecessary
19		commercial burden on the Applicant. In addition, as shown in the rebuttal testimony of
20		CRW witnesses Ollson, McCunney, Haley, and Lampeter, such a setback is not
21		supported from a technical, health, or welfare standpoint. Therefore, CRW does not
22		agree it is appropriate for adoption.
23		

# Q. THE INTERVENORS' PROPOSED CONDITION 9 (KEARNEY EXHIBIT DK-8) WOULD REQUIRE AIRCRAFT DETECTION LIGHTING SYSTEMS BE USED IMMEDIATELY UPON OPERATION." DO YOU AGREE WITH THIS PROPOSED CONDITION?

No. The Federal Aviation Administration ("FAA") has sole jurisdiction and authority 5 A. over the approval and implementation of Aircraft Detection Lighting Systems ("ADLS"). 6 CRW cannot comply with this proposed condition since it cannot compel the FAA to 7 8 approve of the use of ADLS. As stated in the supplemental responses to intervenors and staff data requests, the Applicant intends to utilize ADLS technology for the Project. The 9 Applicant is currently working with vendors to establish design requirements and will 10 apply with the FAA for use of ADLS, once the FAA first provides its initial 11 12 determination of no hazard which is expected in July 2019.

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Also, CRW's plan to implement the use of ADLS, if approved by the FAA, is consistent with the requirements in both the Grant and Codington County local ordinances, "Subject to FAA approval, applicants will install an ADLS within one (1) year of approval by FAA for the specified project. In the event FAA does not approve an ADLS system, the turbine owner will comply with all lighting and markings otherwise required by FAA." Therefore, for these reasons, the Commission should not adopt this proposed condition.

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## Q. THE INTERVENORS' PROPOSED CONDITION 18 (KEARNEY EXHIBIT DK 8) WOULD REQUIRE "NO FLICKER SHALL BE ALLOWED TO CROSS NON PARTICIPATING LANDOWNER'S PROPERTY LINE." DO YOU AGREE WITH THIS PROPOSED CONDITION?

A. No. This proposed condition is unnecessary because the project will comply with all
shadow flicker requirements. As shown in the rebuttal testimony of CRW witnesses
Ollson, McCunney, Haley, and Lampeter, such a condition is not supported from a
technical, health, or welfare standpoint. Therefore, CRW does not agree it is appropriate
for adoption. Additionally, this proposed condition is unduly burdensome because, if
implemented, it would eliminate 80 turbines from the project.

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THE INTERVENORS' PROPOSED CONDITION 21 (KEARNEY EXHIBIT DK-12 **Q**. 13 8) WOULD REQUIRE "THE PUC SHALL FOR THE LIFE OF THE PROJECT, CRADLE TO GRAVE, ENFORCE THE 40 DB(A) L10 BY REQUIRING THE 14 **REMOVAL OF TURBINES AND FINES IN EXCESS OF \$10,000 PER** 15 INCIDENT, FOR EQUIPMENT NOISE VIOLATIONS. THE FINE REVENUE 16 17 SHALL BE REMANDED TO THE AFFECTED PROPERTY OWNER WHERE THE VIOLATION OCCURRED." DO YOU AGREE WITH THIS PROPOSED 18 19 **CONDITION?** 

A. No. First, we reject the premise that the limit of 40 dba and the use of the L10 measurement are appropriate and reasonable for the reasons set forth in the rebuttal testimony of CRW witnesses Ollson, McCunney, Haley, and Lampeter. Second, even for the sake of argument, if a post-construction sound monitoring evaluation indicated that a 1 Commission-imposed dba limit was exceeded we do not agree that the turbine should be 2 removed and a fine assessed. Any issues raised by community members regarding 3 potential sound impact from operation of CRW should be addressed through the 4 complaint resolution process described in ARSD Chapter 20: 10:01.

### 5 Q. THE INTERVENORS' PROPOSED CONDITION 22 (KEARNEY EXHIBIT DK-

#### 6 8) WOULD REQUIRE:

THE APPLICANT SHALL DEVELOP A REPORT CONCERNING 7 HEALTH, SAFETY AND WELFARE OF LIVING, WORKING, 8 TURBINE IN THE COMMUTING 9 **RECREATING**, AND PROJECT. THIS REPORT SHALL COVER BUT NOT LIMITED 10 TO INFRASOUND, LOW FREQUENCY NOISE, COMMUNITY 11 WITHIN THE PROJECT DURING CONSTRUCTION, DURING 12 FIRE DANGERS CONDITIONS, ICE THROW, 13 ICING INCLUDING PRAIRIE FIRES CAUSED BY TURBINES, SAFETY 14 SETBACKS, A MAP OF TURBINE LOCATIONS AND ID 15 ADDRESS FOR EMERGENCY RESPONDERS, AND THE PUC 16 PHONE NUMBER TO REGISTER COMPLAINTS. THIS REPORT 17 SHALL BE FOR THE LIFE OF THE PROJECT BE PUBLISHED 18 ANNUALLY EACH FALL IN PUBLIC OPINION NEWSPAPER IN 19 WATERTOWN, SD, SOUTH SHORE GAZETTE IN SOUTH 20 SHORE, SD AND THE GRANT COUNTY REVIEW IN MILBANK, 21 22 SD.

23 24

#### DO YOU AGREE WITH THIS PROPOSED CONDITION?

A. No. The rebuttal testimony of CRW witnesses Thompson, Ollson, McCunney, Haley, Sappington, and Lampeter show that the underlying subject matter regarding health, safety, and welfare in this condition do not warrant the reporting proposed in this Condition. Additionally, this proposed condition is redundant and duplicative of existing reporting channels since the applicant is already required to coordinate with emergency responders in setting up an emergency action plan in the event of fire or other hazardous condition, as previously described in section 18.3.3 of the Application. Q. THE INTERVENORS' PROPOSED CONDITION 25 (KEARNEY EXHIBIT DK 8) WOULD REQUIRE "THE APPLICANT [TO] REMOVE ALL TURBINES
 THAT DO NOT MEET THE CONDITIONS OF THE LOCAL AND STATE
 PERMITS, RULES AND LAWS." DO YOU AGREE WITH THIS PROPOSED
 CONDITION?

This proposed condition is redundant as CRW is required to comply with all 6 Α. No. applicable local, state, and federal laws. In the event that there is a question whether a 7 turbine is in compliance with these laws, CRW would want to present proof of 8 compliance or possible mitigate measures to bring the turbine into compliance, and, only 9 as a last resort remove the turbine if the agency considering the issue of possible non-10 compliance ordered the company to remove the turbine after an opportunity to present 11 12 proof of compliance and/or the mitigation measures.

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# 14 Q. THE INTERVENORS' PROPOSED CONDITION 26 (KEARNEY EXHIBIT DK15 8) WOULD REQUIRE "IF THE PUC REQUIRES A LIAISON, THE LIAISON 16 SHALL LIVE IN THE CROWNED RIDGE LLC BOUNDARY." DO YOU 17 AGREE WITH THIS PROPOSED CONDITION?

A. No. The roles and responsibilities of the liaison will be articulated by the Commission in
 its conditions. CRW will propose a candidate liaison to the Commission and the
 Commission will approve or disapprove of that candidate based on an evaluation of the
 candidate's suitability for the role.

1Q.THE INTERVENORS' PROPOSED CONDITION 27 (KEARNEY EXHIBIT DK-28) WOULD REQUIRES "IN THE FIRST WEEK OF MAY, BY LETTER, THE3PUC SHALL SURVEY THE PARTICIPATING AND NON PARTICIPATING4LANDOWNERS WITHIN 2 MILES OF THE PROJECT BOUNDARY5FOOTPRINT WITH 10 QUESTIONS WRITTEN BY THE INTERVENORS." DO6YOU AGREE WITH THIS PROPOSED CONDITION?

- A. No. Based on the language of this proposed condition, it is unclear what the purpose of
  the survey would be and what service it would perform in the public interest.
- 9

10 Q. THE INTERVENORS' PROPOSED CONDITION 28 (KEARNEY EXHIBIT DK11 8) WOULD REQUIRE THAT "THE PUC SHALL REQUIRE THE APPLICANT
12 TO REMOVE AND NOTIFY THE PARTICIPATING LANDOWNERS THAT
13 THE CONFIDENTIALITY [EASEMENT] AGREEMENT IS NULLIFIED." THIS
14 NOTICE SHALL BE SENT BY APRIL 30TH." DO YOU AGREE WITH THIS
15 PROPOSED CONDITION?

A. No. The participating landowners have entered into a voluntary and private business
 agreement with the Applicant on terms mutually agreeable to both parties. The terms and
 conditions and pricing are confidential and sensitive commercial information, which if
 disclosed would harm the competitive position of the project and other affiliates of CRW
 who use the same terms and conditions.

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#### 1 Q. THE INTERVENORS' PROPOSED CONDITION 31 (KEARNEY EXHIBIT DK-

#### 2 8) WOULD REQUIRE:

THE PUC, FOR THE LIFE OF THE PROJECT, SHALL ANNUALLY 3 ALL PARTICIPATING AND 4 SURVEY TO SEND OUT A 5 LANDOWNERS WITHIN THE PROJECT NONPARTICIPATING **BOUNDARY FOOTPRINT AND WITHIN 2 MILES OF THE PROJECT** 6 7 BOUNDARY FOOTPRINT. THE SURVEY SHALL QUERY BUT NOT LIMITED TO, PERCEPTIONS OF PROPERTY VALUE, QUALITY OF 8 LIFE, HEALTH CONCERNS RELATED TO TURBINES, CONCERNS 9 **ABOUT THE TURBINES.** 10

11 12

#### **DO YOU AGREE WITH THIS PROPOSED CONDITION?**

13 A. No. The rebuttal testimony of CRW witnesses Baker, Ollson, and McCunney shows that 14 the underlying subject matter does not warrant an annual survey. Furthermore, this 15 proposed condition is redundant as there will be a complaint process in place (as required 16 by ARSD Chapter 20: 10:01) that provides members of the community an opportunity, at 17 any time, to raise concerns and seek resolution, and, therefore, the proposed condition is 18 not needed.

#### 19 Q. THE INTERVENORS' PROPOSED CONDITION 32 (KEARNEY EXHIBIT DK-

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8)

WOULD REOUIRE THE PUC NOT TO ALLOW TURBINE SHIFTS. DO

21 YOU AGREE WITH THE PROPOSED CONDITION?

A. The Commission in past cases (Prevailing Wind, condition no. 23, and Dakota Range I and II, condition no. 22) has allowed turbine shifts of up to 250 feet or less from the turbine locations identified in the application without prior Commission approval, subject to a number of conditions. CRW agrees with the Commission's approach on turbine moves and is agreeable to complying with the same conditions imposed in the Prevailing Wind and Dakota Range cases.

Exhibit A44

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The Commission-approved condition in those cases also requires that a turbine that is 2 3 moved within 250 feet must continue to comply with all applicable setbacks, sounds and shadow/flicker requirements; therefore, the moving of the turbine will not result in non-4 compliance with these setbacks and requirements. Prior to the move, the Commission-5 approved condition would require that CRW will file in the docket an affidavit 6 demonstrating compliance with the conditions. Any turbine move that does not comply 7 Thus, we believe the 8 with the limitations would require Commission approval. Commission has appropriately conditioned turbine moves, and CRW is willing to comply 9 with such a condition. Therefore, the proposed condition prohibiting turbine moves 10 11 should not be adopted.

12 Q. THE INTERVENORS' PROPOSED CONDITION 34 (KEARNEY EXHIBIT DK13 8) WOULD REQUIRE "THE APPLICANT SHALL PROVIDE A CRADLE TO
14 GRAVE CARBON FOOTPRINT REPORT FOR THIS PROJECT." DO YOU
15 AGREE WITH THE PROPOSED CONDITION?

16 A. No. CRW's wind facility is a zero carbon emission energy resource. There is no basis
17 that CRW file a report essentially stating the same.

Q. THE INTERVENORS' PROPOSED CONDITION 36 (KEARNEY EXHIBIT DK8) WOULD REQUIRE CRW TO "COMMIT TO AN END DATE TO THE
PROJECT." DO YOU AGREE WITH THIS PROPOSED CONDITION?

A. The estimated life of the Project is 25 years, which is the same term as the power
 purchase agreement ("PPA") with Northern States Power Company. At the end of the
 PPA, CRW will consider selling the energy from the wind facility to other buyers. CRW

1		may also extend the life of the project through retrofitting or repowering. To the extent,
2		retrofitting and repowering requires Commission approval at that time, CRW will seek
3		that approval prior to conducting the retrofitting and repowering. Therefore, at this time,
4		there is no specific date to provide when the project will end, but CRW is amendable to
5		notifying the Commission after 25 years if it will not retrofit or repower the project, if the
6		Commission desires.
7		
8	Q.	THE INTERVENORS' PROPOSED CONDITION 38 (KEARNEY EXHIBIT DK-
9		8) WOULD REQUIRE:
10 11 12 13 14 15 16 17		AN ANNUAL REPORT PUBLISHED IN THE FOLLOWING PUBLIC PUBLICATIONS, FOR THE LIFE OF THE PROJECT: PUBLIC OPINION NEWSPAPER IN WATERTOWN, SD, SOUTH SHORE GAZETTE IN SOUTH SHORE, SD AND THE GRANT COUNTY REVIEW IN MILBANK, SD WHICH INCLUDES A REPORT OF THE FOLLOWING INFORMATION: • TAX REVENUE VERSUS PREDICTIONS FOR EACH ENTITY: COUNTY, TOWNSHIP AND SCHOOL DISTRICT.
18 19 20 21 22		<ul> <li>ACTUAL POWER PRODUCTION VERSUS PREDICTIONS.</li> <li>ELECTRIC PRICES EXPERIENCED BY CITIZENS VERSUS ELECTRIC PRICES AT THE START OF THE PROJECT.</li> <li>THE AMOUNT OF NET NEGATIVE ENERGY USED FROM THE GRID AND THE PRICE COST PER KILOWATT AND TOTAL</li> </ul>
23 24 25 26 27 28 29 30 31		<ul> <li>COST PER TURBINE THE APPLICANT PAID FOR IT.</li> <li>SCHOOL ENROLLMENT NUMBERS AT WAVERLY SCHOOL VERSUS AT THE START OF THE PROJECT.</li> <li>A SURVEY OF ALL LANDOWNERS THAT IS COMPLETED BY A THIRD PARTY SELECTED BY THE PUC, WITH THE RESULTS BEING SENT DIRECTLY FROM THE SURVEY COMPANY TO THE PUC. THE QUESTIONS ON THE SURVEY SHALL INCLUDE:</li> </ul>
32 33 34 35 36 37		<ul> <li>DO YOU FEEL YOUR QUALITY OF LIFE HAS BEEN IMPACTED AS A RESULT OF THE WIND PROJECT, CROWNED RIDGE 1? IF YES, HAS IT BEEN IMPACTED FOR THE BETTER OR WORSE?</li> <li>DO YOU BELIEVE THE COMMUNITY HAS BEEN IMPACTED AS A RESULT OF THE WIND PROJECT, CROWNED</li> </ul>

Exhibit A44

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#### DO YOU AGREE WITH THESE PROPOSED CONDITIONS?

5 A. No. As written, it is unclear what the proposed conditions would achieve as this data is 6 either publicly available or commercial and private in nature. Further, the following 7 provides additional reasons why each subject matter should not be part of an annual 8 report.

RIDGE I? IF YES, HAS IT BEEN IMPACTED FOR THE BETTER OR

9 <u>Tax</u>

## 10 County, Township, and School District tax revenues are publicly available, and, 11 therefore, the Intervenors can obtain such information without publishing it the 12 newspaper.

#### 13 Actual Production Versus Predictions

WORSE?

Many factors can lead to differences between predicted and actual energy production, such as weather resource variability and equipment outages. CRW employs a dedicated team of professionals to forecast project energy production, but there can be differences between predicted and actual production. These differences can be commercially sensitive due to the competitive nature of wind energy development, and, therefore, CRW would oppose publishing them in a newspaper.

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#### 21 School Enrollment

As shown in the rebuttal testimony of CRW witnesses Ollson, McCunney, Haley, and Lampeter, there is no supporting evidence from a technical, health, or welfare standpoint

1		that the students of Waverly school will be impacted by this project. Accordingly, the
2		reporting on school enrollment serves no purpose.
3		Survey by third party
4		As shown in the rebuttal testimony of CRW witnesses Ollson, McCunney, Haley, and
5		Lampeter, there is no supporting evidence from a technical, health, or welfare standpoint
6		that warrants a third party survey on quality of life and community impact.
7		
8	Q.	DOES THIS CONCLUDE YOUR TESTIMONY?
9	A.	Yes, it does.

STATE OF DELAWARE ) ) ss COUNTY OF NEW CASTLE )

I, Sam Massey, being duly sworn on oath, depose and state that I am the witness identified in the foregoing prepared testimony and I am familiar with its contents, and that the facts set forth are true to the best of my knowledge, information and belief.

Sam Massey

Subscribed and sworn to before me this 23 day of May 2019.

Notary Public

My Commission Expires

PAMELA MARIE HEVERIN Notary Public - State of Delaware My Commission Expires August 3, 2021

SEAL

STATE OF FLORIDA ) ) ss COUNTY OF PALM BEACH )

I, Tyler Wilhelm, being duly sworn on oath, depose and state that I am the witness identified in the foregoing prepared testimony and I am familiar with its contents, and that the facts set forth are true to the best of my knowledge, information and belief.

hin Tyler Wilhelm

Subscribed and sworn to before me this 23<sup>rd</sup> day of May 2019.

SEAL

rauss Notary Public

My Commission Expires



Commission # GG 092884 Expires June 3, 2021 Bonded Thru Troy Fain Insurance 800-385-7019