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STATE OF SOUTH DAKOTA
PUBLIC UTILITIES COMMISSION

Docket No. EL19-027

In the Matter of the Application)
by Crowned Ridge Wind II, LLC for)
a permit of a Wind Energy)
Facility in Deuel, Grant, and)
Codington Counties, South Dakota.)

ORIGINAL

TRANSCRIPT OF PUBLIC INPUT MEETING

BEFORE THE PUBLIC UTILITY COMMISSION:

Commissioner Gary Hanson, Chairman
Commissioner Chris Nelson, Vice Chairman
Commissioner Kristie Fiegen

Watertown Event Center
1901 9th Avenue Southwest
Watertown, South Dakota

August 26, 2019
5:30 P.M.

ORIGINAL

Nancy McClanahan
Reporter/RPR, RMR

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PROCEEDINGS

CHAIRMAN HANSON: Good afternoon, Ladies and Gentlemen. Thank you for stopping by. We're looking forward to your comments. My name is Gary Hanson. I'm the Chairman of South Dakota PUC. With me this evening are Vice Chair Chris Nelson and Commissioner Kristie Fiegen. We appreciate the fact that you traveled this far so far and we encourage you to share your thoughts with us.

Our purpose this evening -- And I have some preliminary business I have to get out of the way and give you some -- You know, before I do that, I saw Fred Deutsch in the audience, and Nancy York. We appreciate your legislative delegation to an extent being here. You're pointing.

UNIDENTIFIED SPEAKERS: Hugh Bartels.

CHAIRMAN HANSON: Hugh Bartels. Excuse me. Representative Bartels.

REPRESENTATIVE BARTELS: I snuck in late.

CHAIRMAN HANSON: I hope that doesn't cost me in the legislature.

REPRESENTATIVE BARTELS: We'll see how appropriations goes. (Laughter.)

CHAIRMAN HANSON: We never want to offend anyone in appropriations.

1 Our purpose this evening is to hold a Public
2 Input Meeting in Docket EL19-027, *In the Matter of the*
3 *Application by Crowned Ridge Wind II, LLC, for a*
4 *Permit of a Wind Energy Facility in Deuel, Grant, and*
5 *Codington Counties.*

6 On July 9, 2019, Crowned Ridge Wind II filed
7 an application to construct a wind energy facility.
8 The project would be situated within approximately a
9 60,996-acre project area in the townships of Waverly,
10 Kranzburg North and Kranzburg South, Troy, Rome,
11 Goodwin, and Havana. The total installed capacity of
12 the project would be approximately 301 megawatts with
13 up to 132 wind turbines and other associated
14 facilities. The proposed project would utilize the
15 Crowned Ridge Wind II five-mile 230 kV generation tie
16 line to transmit generation. Crowned Ridge Wind II
17 has a purchase and sale agreement with Northern States
18 Power to sell the Project and Facility Permit if it is
19 constructed. The project is proposed to be completed
20 in 2020 and cost approximately \$425 million.

21 A copy of the application is with the Deuel,
22 Grant and Codington County Auditors. It is also
23 available on the Commission's website under EL19-027,
24 or by calling, writing, or stopping by the Commission
25 office.

1 At tonight's input meeting, the Applicant is
2 to provide information to the public about the
3 proposed project and to hear your comments about the
4 project. We encourage you to comment. Please keep in
5 mind that no decisions are being made tonight or in
6 the immediate future.

7 Some important words regarding your rights
8 and opportunities. By law, the parties to the
9 proceeding at this time are Crowned Ridge Wind II,
10 Commission staff, and nine persons who have already
11 applied for and have been granted party status. Under
12 South Dakota law, each municipality, county, and
13 governmental agency in the area where the facility is
14 proposed to be sited or any person residing in the
15 area where the facility is proposed to be sited or any
16 directly interested person may be granted party status
17 by making written application to the Commission on or
18 before 5:00 p.m. on September 9, 2019.

19 We have applications for party status
20 available here this evening, if you'd like to apply.
21 The form is also available on the Commission's website
22 or by contacting the Commission. You do not need to
23 become a party to the docket for your voice to be
24 heard by the Commission.

25 We're here tonight to hear your comments and

1 your concerns about the project. We also accept
2 comments in writing from anyone, either by mail,
3 personal delivery, or e-mailing the Commission right
4 up until the time of the decision. You only need to
5 apply for party status if you want to formally provide
6 actual testimony or evidence, conduct discovery,
7 cross-examine witnesses, make legal arguments, and
8 preserve your right to appeal to the courts if you do
9 not believe our decision is legally correct.

10 The Commissioners must base our decision upon
11 the strength of actual evidence presented to the
12 Commission.

13 No one is being sworn in or cross-examined
14 this evening, and your credibility or expertise is not
15 being examined. So the comments made this evening are
16 not considered to be evidence.

17 Your comments will provide the Commission and
18 the Applicant with issues that are, perhaps, unique or
19 that you just want to make certain we consider during
20 the evidentiary hearing. As Commissioners we have
21 numerous questions of our own that we will ask during
22 the evidentiary hearing. Tonight is your night to ask
23 questions and make comments for the Applicant to
24 answer and for us to make certain they are answered
25 during the evidentiary hearing.

1 Each of the Commissioners and staff
2 thoroughly read all comments submitted by the public,
3 and comments are also filed in the docket.

4 If you have written comments for us tonight,
5 please give them to the Commission staff.

6 For the permit to be approved, state law
7 states that the Applicant must show that the proposed
8 wind facility will comply with all applicable laws and
9 rules; will not pose a threat of serious injury to the
10 environment, nor to the social and economic condition
11 of inhabitants or expected inhabitants in the siting
12 area; will not substantially impair the health,
13 safety, or welfare of the inhabitants; and will not
14 unduly interfere with the orderly development of the
15 region with due consideration given to the views of
16 governing bodies of affected local units of
17 government.

18 Based on these factors, the Commission will
19 decide whether the permit for the proposed project
20 should be granted, denied, or granted with such terms
21 and conditions as the Commission finds appropriate.
22 State law requires that we issue our decision within
23 nine months of the application being filed. That date
24 is April 9, 2020.

25 Nancy McClanahan is our court reporter here

1 this evening. You may have noticed as I was speaking,
2 when I'm reading every once in a while I catch myself
3 and need to slow down. She's a very good typist.
4 We've had her here a number of times. And we
5 appreciate very much if you are going to read
6 something, that you at least read it slowly. Please
7 use the microphone when you speak, introduce yourself,
8 spell your name slowly, so we can, as Commissioners,
9 get it written down. Speak clearly and at a
10 reasonable pace. Like I say, she's very proficient,
11 but we don't want any auctioneering this evening.

12 In order to ensure fairness and impartiality
13 throughout the nine months allotted to this process,
14 the Commissioners and their advisers are not allowed
15 to engage in private ex parte conversations with
16 anyone regarding this project. However, some
17 Commission staff members may visit with and answer
18 most of your questions. Those Commission staff
19 members who are here are Darren Kearney, Eric Paulson,
20 Mikal Hanson. I believe Kristen Edwards. Was she
21 going to be?

22 **KAREN CREMER:** No, she is not here.

23 **CHAIRMAN HANSON:** She is not here. And
24 Brittany Olson. Feel free to seek them out if you
25 have any questions, or if you need help with anything

1 this evening.

2 Please write your name and information on the
3 sign-in sheets so we have a record of who attended.

4 Please mute your cell phones.

5 We're going to begin this evening by having
6 the representatives of Crowned Ridge Wind II make
7 their presentation to explain the proposed project.
8 Following that presentation, we will open it up to
9 you. This will be your opportunity to make comments
10 and to ask questions.

11 I would like to see a show of hands of
12 approximately how many people plan to speak this
13 evening so we can get an idea of the amount of time
14 for each person. About 15?

15 **KAREN CREMER:** Yes.

16 **CHAIRMAN HANSON:** Anyone having a problem
17 with holding it within five minutes? Given the amount
18 of time to get up to the -- We just have a microphone.
19 Okay. So we'll hand the microphone around to you as
20 we do that too.

21 **COMMISSIONER FIEGEN:** And I have one more.

22 **CHAIRMAN HANSON:** Okay. Great. So we'll be
23 looking at five minutes hoping that you can keep it
24 within that, if you can. Maybe your spouse will yield
25 another five minutes too. And with that, Commissioner

1 Fiegen has an additional item.

2 **COMMISSIONER FIEGEN:** This is off the record.

3 **(DISCUSSION OFF THE RECORD.)**

4 **CHAIRMAN HANSON:** So with that, I will turn
5 the meeting over to the Applicant for their
6 presentation.

7 **DARYL HART:** Good evening. My name is
8 Daryl Hart. I'm the Director of Renewable
9 Development, NextEra Energy Resources. NextEra Energy
10 Resources filed the Crowned Ridge Wind, LLC
11 Application, and Crowned Ridge Wind II is the wholly
12 owned, indirect subsidiary of NextEra Energy
13 Resources.

14 This is a little background. NextEra Energy
15 Resources is an American company and wholly-owned,
16 wholly owns about 118-plus wind farms and is the
17 largest generator of wind and solar power in the
18 world, as of 2018. Crowned Ridge Wind II or CR II --
19 CRW II possesses a Purchase and Sale Agreement with
20 Northern States Power, NSP. What does that mean?
21 Well, Crowned Ridge Wind II will be developed as well
22 as permitted and constructed by NextEra Energy
23 Resources. At which point, at commercial operation,
24 we expect that to happen around the fourth quarter of
25 2020. At which point, once operations are declared,

1 the site will then be transferred over to NSP for
2 ownership and operation for the life of the wind farm.

3 Just a little background about the project.
4 Crowned Ridge Wind II is seeking an energy facility
5 permit approval for the proposal of up to
6 300.6 megawatt project in Codington, Deuel, and Grant
7 counties, South Dakota. The project is to satisfy
8 NSP's renewable energy requirements within their
9 service territory within the MISO, which is the
10 Midcontinent Independent System Operator regional
11 grid, specifically to deliver zero-emission and
12 competitively-priced electricity. The demand for this
13 power has already been approved and recognized by the
14 Minnesota Public Utilities Commission, as well as the
15 North Dakota Public Service Commission. Therefore,
16 the Crowned Ridge Wind II project will supplement
17 NSP's pursuit of, including higher ratio of renewable
18 energy within their generation portfolio.

19 So at this time, I will be handing over the
20 microphone to Tyler Wilhelm, who is the senior project
21 manager for the project.

22 **TYLER WILHELM:** Good evening, everybody.
23 Thank you all for your attendance here tonight. I'm
24 going to walk you through a project overview of the
25 Crowned Ridge II project.

1 To the right you'll see a depiction of what
2 is the project area. Some local landmarks that help
3 with the physical orientation of the project boundary
4 or project area, the black line running through
5 roughly the center of the polygon there, that's
6 Highway 212. Just north of that. We have Kranzburg
7 to the south. You have Goodwin. All the way up to
8 the northwest where you see that dot, that's Waverly,
9 just outside of the project area. And then you have
10 Bemis down there to the southeast within the project
11 footprint.

12 The Crowned Ridge II facility permit
13 application was filed on July 9, 2019. Assuming the
14 South Dakota PUC's nine-month review and approval
15 process, we would expect to commence construction in
16 Q2 2020, or the second quarter of 2020.

17 The project has a nameplate capacity of
18 300.6 megawatts, represents a \$400 million investment
19 in the state of South Dakota and is located in
20 Codington, Grant, and Deuel counties.

21 On this slide is the same project area that
22 you saw on the last; however, this includes some more
23 detail and which is the project site map. This was
24 filed as Figure 3-A in our application, and we'll be
25 providing an updated figure for the site plan on our

1 supplemental testimony in September.

2 The project area is comprised of
3 60,996 acres. Of those acres, 40,911 contain active
4 wind farm agreements. The project will consist of
5 132 GE turbines; 66 of which will be located in
6 Codington; 66 that will be located in Deuel; and two
7 turbine locations that are proposed in Grant.
8 Additional project facilities include access roads to
9 the turbines and other project facilities, underground
10 collection cabling, two MET towers, and an operations
11 and maintenance facility.

12 So an update on the land portion of the
13 project. Land acquisition is near complete. Nearly
14 all have been obtained to support the project that was
15 proposed. There are three easements that are still
16 pending. And I hope everybody can see where there is
17 kind of a peach-ish color on the map. Those represent
18 where they're still pending approval. One of those is
19 for a turbine location. The other property is for a
20 collection corridor that would support an adjacent
21 turbine, and then we have one construction access road
22 needed to support the construction process for a
23 proposed turbine location. So those are the three
24 that are outstanding.

25 Since our filing we entered into three wind

1 farm easement agreements to support the
2 Crowned Ridge II turbine location 125, CR II turbine
3 location 129, and then also an additional easement to
4 support a collection corridor, which is just south of
5 Bemis. All of these properties were previously noted
6 as pending approval on our application, and it will be
7 updated in our supplemental testimony. The project
8 team anticipates that we'll have all easements in
9 place by September 20, 2019.

10 This slide depicts the two turbine
11 technologies that will be utilized for the project.
12 The one on the left is the primary turbine. It's a
13 GE 2.3 megawatt turbine. There will be 117 of these,
14 and they are roughly 485 feet tall.

15 The second turbine that will be utilized on
16 the right, that's our GE 2.1 megawatt turbine. There
17 will be 15 of these, and these roughly 452 feet tall.
18 The difference in the turbine height is the actual
19 tower height. It is not the length of the blades,
20 which are consistent on both models.

21 There will be a big boost to the local
22 economy with 250 construction jobs, which will
23 increase local spend, and 12 full-time, long-term O&M
24 jobs created for the life of the project, as well as
25 improvements to existing township and county roads.

1 Such improvements are necessary to accommodate the
2 construction traffic, as well as the heavy project
3 components that will be delivered to the project area.
4 \$40 million in payments will go out to landowners for
5 the life of the project for the generating assets.

6 This is a depiction of the tax revenues that
7 will be generated over the 25-year period of the
8 project. You can see it's broken down here by county.
9 Deuel County being first, reflecting a total
10 \$12.3 million generated over the 25-year operating
11 life; second being Codington, at \$12.9 million; and
12 then Grant County where our project is -- excuse me,
13 our footprint is much smaller, will be roughly
14 \$190,000 generated.

15 Over the development site we've had the
16 opportunity and privilege to get involved with some of
17 the local support, the organizations, groups, and
18 events. I'll note a couple of these for you. The
19 first one being the Crystal Springs Rodeo. There is a
20 picture of that on the top right. We were the
21 exclusive sponsor of the Extreme Bulls event that was
22 implemented, I believe, two years ago? The next one
23 being, we were able to provide contributions to the
24 Wind Application Center at the South Dakota State
25 University to help that program stay alive. And we've

1 also recently contributed turbine components to
2 Mitchell Tech to help with some hands-on training
3 opportunity there. The last one I'll note is from the
4 turbine purchase order to support the project, we were
5 able to extend employment at Molded Fiber Glass in
6 Aberdeen as well as adding 60 additional jobs to that
7 workforce.

8 Stakeholder outreach has been extensive as
9 well since commencing development on the project. A
10 couple to note, we've had a lot of involvement with
11 planning and zoning boards, as well as the county
12 commissions in Codington, Deuel, and Grant County.
13 We've linked up with the Sisseton-Wahpeton Oyate
14 Tribe, as well as several others to help with a lot of
15 our cultural survey work in the field. And we've also
16 had open coordination with the United States Fish &
17 Wildlife Service, South Dakota Game, Fish & Parks, as
18 well as the South Dakota State Historical Society.
19 And that picture down at the right was captured during
20 one of our landowner events held actually in this
21 building here.

22 The project compliance. For many of those in
23 the audience here today may be aware that all three
24 counties did adopt new siting requirements for wind
25 energy systems in their counties, which we were able

1 to work hand-in-hand with those counties on. Some
2 consistencies that you'll see across all three
3 counties would be that the one-mile setback was
4 implemented from the municipal boundaries. In Deuel
5 County there is also a one-mile setback implemented
6 from the lake district at Bullhead Lake. Another
7 consistency you'll see is that all counties include a
8 shadow flicker limitation at all receptors of no more
9 than 30 hours on an annual basis.

10 I'll go ahead and pass the mic to
11 Mark Thompson to continue on with the wind farm
12 description.

13 **MARK THOMPSON:** Good afternoon. As Tyler
14 said, Mark Thompson. I'm the manager for the
15 engineering group that supports the wind development
16 team. You know, we have gone through some of the
17 details as far as the wind farm outlay. I'll just go
18 through some of the engineering aspect that helps
19 guide the whole wind farm process and the whole
20 operation and aspect of the wind farm.

21 The four major aspects of the wind farm
22 includes: The turbines. These generate the megawatts
23 that we hear so often being mentioned. Once those
24 megawatts are generated, they have to go to the
25 substation where they're integrated, where a step up

1 in terms of their voltage and integrated in the
2 existent power system that we have.

3 The mode of transportation. Transportation
4 because you're moving the power is the cable, the
5 cables that you put in the ground, and these are
6 buried at the depth of 48 inches. Once you get to the
7 substation, you have major components such as the GSU
8 that is used to step up the voltage so that it can
9 intermingle with the existing transmission facility.

10 One facility that is very important is the
11 operational facility. This facility is usually used
12 to monitor the site to ensure safety operation and
13 reliability of the farm.

14 The picture says a thousand words. What we
15 have here is an actual turbine foundation. You can
16 see excavation and the soil that is piled up around
17 the actual foundation. The next slide I'll show you
18 where the reclamation of the soil. It's part of the
19 design, of course, to make sure that the turbine will
20 stay in place, even under the most adverse wind
21 condition. So what you have here is what is known,
22 typically known as a spread foundation. We've
23 excavated to a depth of about eight feet. We placed
24 rebar, poured concrete of course, and you can see the
25 stockpile around the foundation. At the end of the

1 day, all of that will be replaced and be part of the
2 actual foundation. Once the foundation is in the
3 ground and it's cured, it's ready to be -- to
4 accommodate the tower itself.

5 The turbine, as you know, consists of three
6 major components. No. 1 is the actual tower, which is
7 in three pieces. You have the base and then the top
8 section. On top of the top section, you have the
9 nacelle, and of course you have the rotor blade that
10 is attached to the nacelle.

11 I want you to focus just at the bottom where
12 the crane, that's known as the crane pad. All of that
13 used to be soil that was stockpiled. As you can see,
14 it's now reclaimed. It's actually part of the
15 foundation.

16 Here, I mentioned earlier, the cable that is
17 used to move the power from the actual generator to
18 the substation. The top picture shows the actual
19 trench that has been open to lay these cables in to
20 the depth of 48 inches, as I mentioned before. Once
21 these are laid in, the soil is replaced and it's
22 compacted to ensure that you don't have erosion in the
23 various diggings of the machines.

24 The second picture shows the substation
25 itself being built. Those are actual support steel

1 inside the substation, and once this is completed, it
2 will accommodate all the major equipment needed for
3 the operation of the substation itself.

4 I mentioned before the operation of the site.
5 It's very important that we maintain operability,
6 maintainability, safety. This site, Crowned Ridge,
7 will have up to eight techs in the field that are
8 local, with a site manager. The site will also be
9 operated remotely using a SCADA communication.
10 Meaning, you can stay, for this for particular NSP,
11 they can stay at their control center and monitor what
12 goes on at the site. If something goes wrong, they
13 will know in time and take the appropriate action.

14 So decommissioning. After the site has
15 exceeded its useful life, it's going to be
16 decommissioned. NSP will be responsible for all that
17 cost. But all aboveground facilities will be removed.
18 Facilities within the ground, those will also be
19 removed. And the site will be reclaimed to
20 preconstruction condition.

21 This is the contact information for Tyler.
22 If you have questions at the end or you can certainly
23 make contact with him and get the information you
24 want. That concludes my presentation. Thank you.

25 **CHAIRMAN HANSON:** Thank you very much. I

1 appreciate the presentation. And no doubt there is a
2 few folks with some questions and maybe some folks
3 with some answers. So we'll appreciate it if you sort
4 of squirrel in and have a little bit of a challenge
5 getting in to the front. There are some chairs up
6 here that say *Reserved* on them, and they're reserved
7 for you now if you're going to speak.

8 So there is no numbers to be chosen. It's
9 just up to you folks to when you'd like to get the
10 urge and feel compelled to fill our heads with good
11 information, just come on forward. Good evening.

12 **KATHY HAAS:** Good evening.

13 **CHAIRMAN HANSON:** Thanks for breaking the ice
14 for us.

15 **KATHY HAAS:** I'm Kathy Hass.

16 **CHAIRMAN HANSON:** Let's see if that mic is
17 on. It doesn't sound like it is.

18 **KATHY HAAS:** No, it doesn't.

19 **CHAIRMAN HANSON:** When you speak, if you
20 would spell your name slowly, like I said, and tell us
21 approximately where you live so that we get an idea
22 where people come from. Thank you very much, Kathy.

23 **KATHY HAAS:** Okay. I'm Kathy. Spelled with
24 a K. Haas. *H*, two *As*, one *S* as it Sam. I live west
25 of Bemis -- or east of Bemis, I'm sorry. And the way

1 your map shows, how far can the wind towers be apart?

2 **DARYL HART:** Are you asking the distance
3 between the two turbines?

4 **KATHY HAAS:** Yeah, between the two wind
5 towers.

6 **TYLER WILHELM:** So the distance between the
7 wind turbines will vary. To give an average distance
8 to assume is 1400 feet. However, they could be spaced
9 closer based off of the wind resource. Ultimately it
10 comes down to the manufacturer's specs and ultimately
11 getting a sign-off from the manufacturer that our site
12 is suitable as proposed.

13 **KATHY HAAS:** If you look at the map here, it
14 shows I'm going to have one in the backyard in the
15 neighbor's land, and then one in the front yard. It's
16 not a very big place. It's only like 20 acres. And
17 then there is one on the other side of me. And the
18 land is -- Can they be that close? Aren't they loud?

19 **TYLER WILHELM:** There is some noise
20 associated with the wind turbines, however, at the
21 sites proposed, we are in compliance with both local
22 and state requirements. I'm anxious to know where
23 your house is so I can get a better understanding of
24 where these are in the general area, to get you more
25 information as far as how far away they are, and to

1 get to follow up with you on the proposed noise levels
2 that we have currently in place.

3 **KATHY HAAS:** Okay.

4 **TYLER WILHELM:** I'm happy to take your
5 information now or we can talk afterwards.

6 **KATHY HAAS:** I can talk afterwards.

7 **TYLER WILHELM:** Okay. Sure.

8 **KATHY HAAS:** Thank you.

9 **TYLER WILHELM:** Thank you.

10 **CHAIRMAN HANSON:** Kathy, can we have your
11 address so that we can look at the map and figure out
12 exactly where you are in relation to those towers?

13 **KATHY HAAS:** 17717 472nd Avenue. 472nd
14 Avenue.

15 **CHAIRMAN HANSON:** This is the one time my
16 wife allows me to ask young ladies what's their
17 address.

18 **(LAUGHTER.)**

19 **CHAIRMAN HANSON:** Thank you.

20 **KATHY HAAS:** Thank you.

21 **JOANNE WEEG:** I'm Joanne Weeg. W-E-E, G as
22 in goat. We live in Bemis and I notice that in
23 Goodwin they had to be within a mile away from
24 Goodwin. Did I understand that correctly?

25 **TYLER WILHELM:** Yes, ma'am. I believe it's

1 within one mile, has to be set back at least one mile
2 from the nearest residence from the municipality of
3 Goodwin.

4 **JOANNE WEEG:** Okay. What is it for Bemis,
5 then? There is houses, livable houses, in Bemis.
6 There is 27 of us that live in Bemis.

7 **TYLER WILHELM:** Sure. I don't believe that
8 there is a county setback requirement from the town of
9 Bemis. I don't believe that was --

10 **JOANNE WEEG:** So you can get into my
11 backyard?

12 **TYLER WILHELM:** No, ma'am, we can't site any
13 infrastructure on those who don't have active land
14 easement agreement. One of the -- I would be happy to
15 provide information as far as how far away the
16 turbines are from Bemis.

17 **JOANNE WEEG:** Well, I would like to know. I
18 really would because -- I don't know. I like our
19 scenery. I like when I can step outside and have no
20 noise. (Interruption by reporter. Brief discussion
21 off the record.)

22 **THE REPORTER:** I would like to know. I
23 really would --

24 **JOANNE WEEG:** -- how far they are from Bemis,
25 you know, or from our residence. But I would like to

1 be able to walk out my backdoor and not hear a buzzing
2 or get a shadow every so many seconds. I just don't
3 feel that that's really necessary to be that close to
4 Bemis.

5 **TYLER WILHELM:** Again, happy to follow up
6 with you and provide you the distances, noise and
7 shadow flicker levels, so you have a better
8 understanding of what's being proposed.

9 **JOANNE WEEG:** Oh, I have a good understanding
10 of what's being proposed. I have people that live by
11 these and really don't like them. Yeah, I'll give you
12 my address and you can give me your information.

13 **TYLER WILHELM:** Sure.

14 **JOANNE WEEG:** 1124 176th Street. Actual
15 address is Goodwin but we live in Bemis. Brad
16 and Joanne Weeg. In a letter that we received it said
17 that we would be something like a half a mile from the
18 nearest one.

19 **TYLER WILHELM:** That's referring to the
20 public notices that went out?

21 **JOANNE WEEG:** Yes.

22 **TYLER WILHELM:** I believe the requirement is
23 within a half mile of the proposed turbine location --
24 or project area, I'm sorry. The project area.

25 **JOANNE WEEG:** Again, I would like to know the

1 information, if you could get that to me.

2 **TYLER WILHELM:** Absolutely.

3 **JOANNE WEEG:** Thank you.

4 **CHAIRMAN HANSON:** Thank you, Joanne.

5 **JOANNE WEEG:** You're welcome.

6 **CHAIRMAN HANSON:** Good evening.

7 **GAIL BAEZ:** Good evening. My name is
8 Gail Baez. G-A-I-L. B-A-E-Z. And I live in Goodwin,
9 although it's sort of a rural property. I guess the
10 real question here, I think for a lot of people is
11 noise level, and I know you said it's within legal
12 requirements. But realistically, what does that mean?
13 If somebody's within half a mile of a turbine, can you
14 give us some kind of example, what would the noise
15 level be like? Is it going to be like a freight
16 train, or is it going to be like a 10-miles-per-hour
17 wind? Some sort of example that we can understand.

18 **JAY HALEY:** At a distance of a half mile,
19 you'll hear noise levels would be in the neighborhood
20 of 42 to 44 decibels.

21 **GAIL BAEZ:** And what does that mean? Just in
22 practical sense. Is that what a refrigerator would
23 sound like? A car would sound like?

24 **JAY HALEY:** Two people having a conversation
25 about three feet apart would be 55. So that's

1 60 decibels.

2 **GAIL BAEZ:** Two people three feet apart.

3 **JAY HALEY:** Just talking normally, that would
4 be in the range of 50 to 60 decibels.

5 **GAIL BAEZ:** Okay. So what we would be
6 hearing would be somewhat louder than you and I
7 talking three feet apart?

8 **JAY HALEY:** No, no. It would be lower. It
9 would be quieter.

10 **CHAIRMAN HANSON:** Do you have an example for
11 her of 42 decibels --

12 **GAIL BAEZ:** Yeah.

13 **CHAIRMAN HANSON:** -- because you told her it
14 was going to be approximately 42 and the example is
15 55. It would be helpful if she could have the 42.

16 **JAY HALEY:** Just going by one of these
17 standard charts: 10 decibels would be like a pin
18 dropping; 20 decibels would be like rustling leaves;
19 30 decibels would be a whisper in a quiet rural area;
20 40 decibels is like a typical library sound level; 50
21 decibels is a refrigerator; 60 decibels would be the
22 sound of an air conditioner at approximately 100 feet
23 or conversations in a restaurant or an office.

24 **GAIL BAEZ:** All right. And then just one
25 other question. I think you say as far as Goodwin was

1 concerned, they had to be within a mile of -- I don't
2 know if it was an individual houses, residences. My
3 property is somewhat rural so it's not right in
4 Goodwin. But so does that still, is that still true,
5 or is it different because it's a rural property?
6 It's an acreage. It's like 14 acres.

7 **TYLER WILHELM:** Sure. So the way that the
8 county ordinance is written is it's one mile from the
9 closest residence within the municipality of Goodwin.
10 So within the municipality boundary. I'm not familiar
11 with exactly where your property is located. If it is
12 on the outskirts of that, I mean, assuming one mile
13 from the closest house within the municipal boundary
14 that may be closest to you to give you a general sense
15 of how far away we have to maintain. But one of those
16 things where I'm not exactly sure where your property
17 is at.

18 **GAIL BAEZ:** Well, it's not right within the
19 town area. It's out more towards the lake area and
20 it's 14 acres. So does that mean it would have to be
21 a mile from my house or no?

22 **TYLER WILHELM:** If it's not within the
23 boundary of the municipality district, it is not
24 required to be one mile.

25 **GAIL BAEZ:** Okay. One final question then.

1 **TYLER WILHELM:** Sure.

2 **GAIL BAEZ:** The map that I got in the mail,
3 you know, I really couldn't tell the distance from my
4 house, and I couldn't -- the servers were down or
5 something today so I couldn't look on the maps online.
6 Is there a way for people here to get an idea as to
7 exactly where one of these turbines would be located
8 distance from their houses, because I know it says
9 within a half a mile but that's a lot of leeway.

10 **TYLER WILHELM:** So in our noise and shadow
11 flicker reports that we submitted within our
12 application we have receptors that are numbered, and
13 there is not a landowner name tied to that receptor,
14 but we would be happy to provide you the information
15 of what, you know, what number is tied to your home
16 and provide you with the information as to the closest
17 turbine and the noise and shadow flicker level that
18 would be associated with that location.

19 **GAIL BAEZ:** Would one of you be that contact
20 person? Would you be that contact person?

21 **TYLER WILHELM:** It would be either myself or
22 somebody else on the project.

23 **GAIL BAEZ:** Okay. Thank you.

24 **CHAIRMAN HANSON:** Excuse me. Figure 3-A on
25 your project map, it shows Waverly, Kranzburg, Bemis.

1 I don't see Goodwin. I know where it is, but it
2 doesn't show. Any particular reason? Did you just
3 miss that?

4 **TYLER WILHELM:** It may be off on one of the
5 figures that we submitted.

6 **CHAIRMAN HANSON:** It's on 7.

7 **TYLER WILHELM:** It's on 7 but not on 3? Oh.

8 **CHAIRMAN HANSON:** Excuse me. With a
9 magnifying glass I can see it. I'm sorry.

10 **COMMISSIONER FIEGEN:** It doesn't have the
11 name. It's not labeled. Is it?

12 **COMMISSIONER NELSON:** Look on Figure 2.

13 **CHAIRMAN HANSON:** We know where it is.

14 **COMMISSIONER FIEGEN:** Right. We know where
15 it's at. It's just not labeled. So the public I
16 don't know. I just want to make sure the public --

17 **TYLER WILHELM:** Sure.

18 **COMMISSIONER NELSON:** Look on Figure 2.

19 **TYLER WILHELM:** Figure 7, I'm looking at
20 right now, does include Goodwin.

21 **CHAIRMAN HANSON:** Yep. The question was why
22 it wasn't on that particular one. Thank you. Good
23 evening.

24 **GARRY EHLEBRACHT:** Hello there.

25 Garry Ehlebracht. G-A-R-R-Y. E-H-L-E-B-R-A-C-H-T.

1 17539 468th Avenue, Goodwin, South Dakota. I am in
2 the middle of it.

3 One thing that I would like to express to
4 everybody, non-participators in general, is
5 Section 5.2 of the Lease and Easement Agreement as it
6 was proposed to my neighbor, Laretta Kranz, the effect
7 easement reads: Owners grant to operator,
8 Crowned Ridge Wind Energy, LLC, a nonexclusive
9 easement for audio, visual, view, light, flicker,
10 noise, shadow, vibration, air turbulence, wake,
11 electromagnetic, electrical and radio frequency
12 interference, and any other effects attributed to the
13 wind farm or actively located on the owner's property
14 or on adjacent properties over and across the owner's
15 property. That is part of the effect easement.

16 So the owners are getting paid for this.
17 They are not allowed to talk about this. I think as
18 non-participators, you need to know what we're not
19 getting compensated for in the taking of our land.
20 They cannot do it. But yet they're pushing their way
21 around and they're doing it. I don't know how --
22 Tyler, I'm sure is a good man, but they're pushing
23 their way around and they're taking what they want
24 from people that don't want them. There is not --
25 Again, there is not very many of us. There is more

1 non-participators than there are participators. It
2 seems like they're not listening to nobody but the
3 participators, the one that has the land.

4 I have 18 acres. If any part of that shadow
5 comes on my land, they're taking property from me,
6 which I don't think is right. They know it's not
7 right. They can put those wherever they want them,
8 but yet they choose to put them next to people's homes
9 that don't want them.

10 **UNIDENTIFIED SPEAKER:** That's right.

11 **GARRY EHLEBRACHT:** This has been going on
12 since September 20 of last year when we had our
13 meeting in Deuel County. We had four hours, I
14 believe, of testimony from non-participators that
15 presented evidence to the Board of Adjustors. I was
16 assaulted at that meeting by a commissioner who is now
17 the head of the commissioners of South Dakota. I know
18 you know who he is. The State's Attorney was there.
19 Everybody seen it. I have witnesses that seen it.
20 And nothing has been done. The State's Attorney is
21 supposed to get ahold of another State's Attorney to
22 handle this case and it's never been done. So that
23 just doesn't seem right to me.

24 The same commissioner was asked at a county
25 commissioner meeting, "Are you getting a turbine?" He

1 said, "No." I came back two weeks later. There is
2 his wind energy agreement. His signature is on it.
3 When I asked him if that was his signature, he said,
4 "I'm not going to answer that because it will
5 incriminate me."

6 Here is the commissioner minutes that state
7 what I said and that he said that he was not getting
8 them. So he was lying. And if you talk to the people
9 of Deuel County, a lot of his people that know him, he
10 does it all the time.

11 **UNIDENTIFIED SPEAKER:** He does, yes.

12 **GARRY EHLEBRACHT:** He does it -- I mean, it's
13 crazy, but his golf scores, he lies on his golf
14 scores, and they know it. (Laughter) People watch
15 him do it, and he's the head of the commissioners in
16 South Dakota. That's what's not right. Thank you.

17 **(APPLAUSE.)**

18 **CHAIRMAN HANSON:** We're going to try not to
19 do any applauding or cheering and things of that
20 nature. I know that some of us can't help but chuckle
21 once in a while. We can't help it, clapping or
22 trading signs and things of that nature. When Garry
23 was referring to the head of the commissioners in
24 South Dakota, as the Chair of the South Dakota Public
25 Utilities Commission, I wanted to make certain that

1 he's not referring to me. I don't have any sort of
2 financial interest in this whatsoever. Thank you.

3 Next up. Who is next up?

4 **KENNETH MAYER:** Hi, I'm Kent Mayer.
5 K-E-N-N-E-T-H. M-A, as in apple, Y-E-R. I guess my
6 biggest problem with this is, I'm pretty interested in
7 astronomy and stuff, and I really don't like all the
8 red flashing lights in it. When you're driving down
9 the Interstate, you can see them for miles. Actually,
10 you can see them from over by Hayti. So even, I mean,
11 guys 30, 40 miles away are kind of noticing these and
12 it's an eyesore. It's not really something that I
13 like to wake up and look at.

14 I'm a mechanical engineer myself so I kind
15 of, you know, understand wind, and I agree with it in
16 a small form. I think that a lot of us should be
17 working on creating being self-sufficient rather than
18 creating an eyesore. I guess that's about all I have.
19 Thank you.

20 **CHAIRMAN HANSON:** Approximately where do you
21 live, Kenneth?

22 **KENNETH MAYER:** I live three miles east of
23 Goodwin and two miles south of 212.

24 **CHAIRMAN HANSON:** Thank you. And that's the
25 first time of all these years in all of these, lots

1 and lots of wind farms that we've heard someone talk
2 about astronomy. So there is a good purpose to these
3 meetings.

4 **DEAN MACK:** Dean Mack. Live just east of
5 Bemis right on that -- right along the blacktop.
6 Address is 17594 468th Avenue. I got three different
7 parcels of land. I got three letters in the mail.
8 I'm not a hundred percent against ya; I'm not a
9 hundred for ya. If Kranzburg and Goodwin, the towers
10 need to stay a mile away from them towns, then they
11 need to stay a mile away from Bemis. It doesn't
12 matter if the town is ten people, a hundred people, or
13 two people, a town is a town. That's why there is a
14 sign along the highway when you go by.

15 Second of all, you guys keep saying about
16 they got to be half a mile away. Well, technically a
17 half a mile, correct me if I'm wrong, is 2,640 feet.
18 four times your tower height, the height is under
19 2,000 feet so you can't honestly tell the people that
20 they're half a mile away from their house. They're
21 closer than that; right?

22 Their tower is not quite 500 feet tall, and
23 you got to be four times the height, it wouldn't be
24 quite 2,000 feet, and you're telling people that
25 they're half a mile away. Technically, they're not

1 half a mile away because half a mile is 2,640 feet.

2 **TYLER WILHELM:** Sure. I understand your
3 logic. I don't recall saying that turbines will be a
4 half a mile away from homes. There is county
5 ordinances in place that list the distances that is
6 required for us to site these turbines from homes,
7 which we often exceed. For instance, and you
8 mentioned Bemis; correct?

9 **DEAN MACK:** Yep.

10 **TYLER WILHELM:** For a non-participant it's
11 four times the turbine height.

12 **DEAN MACK:** So that wouldn't be quite 2,000
13 feet.

14 **TYLER WILHELM:** Correct. They would have
15 been 45 times four.

16 **DEAN MACK:** Right. Right. So they're not a
17 half mile. Because I heard people say half a mile
18 away. They're not a half mile away. They're closer
19 than that. Just so we got that clear.

20 **TYLER WILHELM:** Yes, sir.

21 **DEAN MACK:** Then my other than question is,
22 if we're going to build them, and you dig that
23 transmission line in, what records do you have of tile
24 lines and stuff like that underground that you got to
25 cross? Because I've got some I know that you're going

1 to have to go over it.

2 **TYLER WILHELM:** My first question, do you
3 have an active wind easement in the project?

4 **DEAN MACK:** No, I did not sign. I did not
5 sign.

6 **TYLER WILHELM:** So we would not be running
7 anything across your property.

8 **DEAN MACK:** No, I got, where I ran tile, I
9 went through the neighbor's land and got his
10 signature. I paid the entire bill. Probably 15 years
11 ago it was done. So the tile is on his land but it's
12 my tile.

13 **TYLER WILHELM:** Sure. So the big part of the
14 conversations that we have with landowners for
15 participation is getting information such as where
16 tile is located on the property and how we can shift
17 infrastructure to the extent possible to minimize --

18 **DEAN MACK:** Right.

19 **TYLER WILHELM:** -- impact to tile, and where
20 the tile is impacted, there is competition to help
21 restore that. We either provide the compensation
22 necessary to restore the tile or restore it ourselves.

23 **DEAN MACK:** How do you know where it's at,
24 because the man is dead that did own the land and his
25 kids own it now? He was not out there the day the

1 tile was put in. Me and two other guys were the only
2 guys out there, and they no longer work in the tile
3 business.

4 **TYLER WILHELM:** When we have conversations
5 with landowners --

6 **DEAN MACK:** Right.

7 **TYLER WILHELM:** -- these discussions come up
8 as far as where existing infrastructure is on the
9 property and tile does come up. It doesn't come up in
10 every single conversation --

11 **DEAN MACK:** Right.

12 **TYLER WILHELM:** -- but we talk directly to
13 the owners of the land, and then oftentimes those who
14 help farm the property as well. So if you have
15 concerns about the tile, I'm happy to get tile maps
16 from you, provide it to our E&C team, our execution
17 team and get that matter taken into consideration.

18 **DEAN MACK:** Okay. That would be fine. And
19 then if you ever put a gravel road over it then to get
20 to one of your towers, say, 10, 15 years down the road
21 that tile needs to be reput in or fixed or patched or
22 whatever, and we got to tear into your road, that
23 should not be my expense, that should be your expense
24 because you put the road over that tile; correct?

25 **TYLER WILHELM:** Any impacts or, yeah, any

1 impacts to the existing land prior to us being there,
2 if there is anything that happens, prior to
3 construction.

4 **DEAN MACK:** There is two tile lines that I'm
5 talking about. One that I put in roughly 15 years
6 ago, and one that was dug in by hand in the 1930s so
7 there is actually two of them.

8 **TYLER WILHELM:** Yeah, that's something that
9 we are obligated to fix.

10 **DEAN MACK:** Okay. Just wanted to make that
11 clear. Thank you.

12 **CHAIRMAN HANSON:** Thank you. Next up.

13 **TIM LINDGREN:** My name is Tim Lindgren.
14 T-I-M. L-I-N-D-G-R-E-N. I live in northern Waverly
15 Township. I'm right in the middle of
16 Crowned Ridged I, but I'm here in support of our
17 friends in Deuel County who are opposed to
18 Crowned Ridged II. I like Deuel County, especially
19 the Crystal Springs, Gary area, and the Hidewood area,
20 and I think it was a big mistake when the DOT closed
21 the rest area, the Hidewood rest area but that's
22 another matter.

23 But we are finding out that wind turbines can
24 be a liability during cold, extreme cold weather.
25 During one of the times electricity was at its highest

1 demand, wind power was not available. Weather
2 stations installed on wind turbines automatically shut
3 down the wind tower when the temperatures drop too
4 low. When we need electricity the most, wind turbines
5 are drawing energy from the grid to keep the turbines
6 lubricated and the computer systems running. This
7 creates a negative energy production. The electric
8 company must depend on other sources of electricity to
9 make up for the negative production. And those
10 sources are coal, gas, and market and one is there was
11 nothing, not enough electricity on the market to buy.

12 Okay. Then I also have a relative in the
13 Toronto area, and I seen him about a year ago and
14 asked him what he thought of living right next to wind
15 turbines and he says, I hate them. He says, They leak
16 oil constantly. The developer did not make do on
17 their promises to keep up the roads. And he says, How
18 many large corporations really care about the little
19 guy? Thank you.

20 **KRISTI MOGEN:** Hi, Kristi Mogen.
21 K-R-I-S-T-I. Mogen, M-O-G-E-N. I'm from Twin Brooks,
22 one mile south of there.

23 After attending public WES hearings over the
24 last two years, it amazes me how many issues that will
25 greatly impact health, safety, and welfare, quality of

1 life, and a danger to the whole community and the
2 environment are still being glossed over. And I'm
3 asking when will this Commission quit playing Russian
4 Roulette with rural residents lives?

5 I live seven miles from Dakota Range I
6 footprint. During the process I was treated like I
7 shouldn't be there asking questions and trying to
8 protect the quality of life for my family and my
9 community.

10 Now, a year later, Crowned Ridge I hearing,
11 an expert hired by wind, Jay Haley, and excepted as
12 such by this Commission, confirmed that the noise from
13 Dakota Range would affect people and property 25 miles
14 away. This should be a concern to the Commission as
15 they did not have all the information to fully -- to
16 be fully informed for the permitting decision on
17 Dakota Range I. Now that the Commission is aware,
18 will the Commission require notice to all the effected
19 properties?

20 During the docket 18-19 during the public
21 hearing, this Commission was asked several times about
22 burying the transmission lines associated with this
23 project. Now a year later during the Crowned Ridge I
24 hearing, NextEra wind engineer, Mark Thompson, stated,
25 And with wind and ice, your weak link becomes that

1 transmission line. Just wonder how many impacts we
2 will learn about a year or two down the road that
3 should have been addressed before getting a permit.

4 I would also like to ask, will this
5 Commission require Crowned Ridged I to remove the
6 transmission lines to nowhere if the court system
7 finds that the local and the state permits are illegal
8 or invalid?

9 How many lawsuits are against this Applicant
10 in South Dakota? There are two in Grant County, and
11 the conditional use permit is for both Crowned Ridge I
12 and Crowned Ridge II. Will there be more? Is it wise
13 for this Commission to issue permits for Applicants
14 when the outcome of those lawsuits is unknown?

15 This Commission has heard many times concerns
16 about liens and mortgages being placed on easement
17 holders. I have brought the documents to show a
18 wholly owned subsidiary of NextEra, as is the
19 Applicant, has caused both liens and mortgages. If
20 this happens in this proposed project, will it affect
21 the farmer's ability to get operating loans or sell
22 his property?

23 These Applicant's -- The Applicant's
24 affiliate or entity in 2012 sent a letter to many
25 landowners stating they would not be renewing the

1 agreement because of several criteria, including wind
2 resource and environmental. Yet here we are today.
3 Why is that? Could it be because the Applicant has
4 proposed, with this proposed project can fleece
5 American tax payers to the tune of more than
6 \$32 million in production tax credits all while
7 destroying the goodness of rural South Dakota.

8 During the Crowned Ridge I discovery, the
9 intervenors asked for the capacity factor. We were
10 told that it was confidential. The capacity factor is
11 actually in the public domain. I provided these
12 documents. They're a part of Minnesota PUC Docket
13 02/AA-19-293. Will the Commission question the
14 methods to arrive at that capacity factor? Would that
15 number be the same if the Applicant paid taxes on the
16 capacity factor instead of the production? What is
17 the true electricity produced after the turbine usage
18 is taken from the grid, is removed from the factor?
19 Will the public ever get to see that number? What
20 number and method does the Applicant use to present
21 all the estimated revenue projected to the schools,
22 townships, and counties. In the Crowned Ridge I
23 docket, we were given several different answers.

24 For this project I have included a Register
25 of Deeds' documents from Deuel and Codington counties.

1 These include a board member with a conflict of
2 interest. He is receiving turbine number
3 Crowned Ridge 70. He has influenced the Board of
4 Adjustment and voted on WES ordinances. Also included
5 in the memorandums for wind leases and easements,
6 showing the grantor will be paid for effects, noise
7 and non-obstruction easements for land in the contract
8 and adjacent properties. Non-participators have given
9 the Applicant no permission to have effects, noise, or
10 non-obstruction. What South Dakota Codified Laws
11 gives the Commission the authority to force
12 non-participators' land to be encumbered with
13 industrial waste from the Applicant?

14 I was not able to find on the public records
15 the so-called confidentiality agreements. Why is
16 that? If the proposed project is so great for our
17 communities, why has the proposed project that has
18 been worked on since 2007 been hidden from the public
19 until 2017? Do you have any questions?

20 **THE REPORTER:** Do you have a copy of your
21 statements?

22 **KRISTI MOGEN:** Yes.

23 **THE REPORTER:** Thank you.

24 **RICH RALL:** Good evening.

25 **CHAIRMAN HANSON:** Good evening.

1 **RICH RALL:** First name is Rich. Last name is
2 Rall, R-A-L-L. I live in rural Goodwin.

3 In regard to what they sound like. If you
4 take a fire extinguisher, squeeze the trigger and
5 release. That's what they sound like, the turbines,
6 as the blades spin around.

7 I would like to know how you guys figure out
8 the noise receptor from my house. I'm a
9 non-participant. How did you guys figure it out at
10 the location? I live in rural Goodwin. Did you
11 actually physically come on my property, or is it done
12 on a computer?

13 **TYLER WILHELM:** We do not physically enter
14 any property that we don't have access rights to. So
15 the GPS location of your receptor would have been done
16 by an aerial application such as like GoogleEarth or
17 something like that.

18 **RICH RALL:** They actually put it behind a
19 wall of my house so you're going to have less noise
20 behind the house. That's not right. This is not
21 right. You can't tell me that I'm not going to have
22 that much noise.

23 Your phone rings, and an unknown person calls
24 you that you have won a substantial amount of money.
25 Or you get a phone call that your grandson or daughter

1 is in a foreign country and needs your financial help.
2 Or you receive a check in the mail from some unknown
3 company with which you have never done business with.
4 What are these? Scams. We have all been taught if it
5 sounds too good to be true: It's a scam.

6 Along comes NextEra Energy. Reliable, low
7 cost green energy. Money for roads, bridges, schools.
8 Good paying jobs for locals. They never mentioned the
9 amounts until tonight. Some of the numbers were
10 mentioned but nothing was mentioned in the ads. It is
11 the same speech given to each county; Codrington,
12 Grant, Duval. This all again, too good to be true:
13 It's a scam.

14 Reliable energy. Wind turbines generate
15 electricity 30 percent of the time. The other
16 70 percent they are actually taking electricity from
17 the grid to operate. So now you need to build a
18 peaking plant using natural gas, which is a fossil
19 fuel, to produce electricity.

20 They are not green. Rare earth metals which
21 are mined in China to make the magnets. China does
22 not have an EPA so they make more air pollution to
23 process it. Fly ash is a coal byproduct and it's used
24 in the 2,500 tons of concrete for each tower. Coal is
25 also used for the production of 900 tons of steel, and

1 oil is used to operate the turbine. Diesel fuel is
2 used in transport site production and erection. All
3 of these are fossil fuels.

4 Have you guys ever been in the rest area,
5 need to use the bathroom real bad, and you can't get
6 in because you got the stupid turbines in there? It
7 takes three vehicles to move one turbine blade. They
8 take up the whole stinking rest area for one turbine
9 blade, for all three turbine blades. And you got to
10 use the bathroom and you can't even go in there
11 because they got things blocked up. I do a lot of
12 traveling. I've seen way too much of that. They're
13 supposed to be on their side of the road and they're
14 going down, they actually take up more than their side
15 of the road. And by law, I don't have to move over.
16 They're covering the center line. They are required
17 to move over.

18 Money for roads. After they are destroyed by
19 the excessive truck traffic and weight.

20 Money for schools, which is based on the number
21 of students. People will move away and the enrollment
22 will decline.

23 The good paying jobs. These are temporary
24 because they will still use their own crews. Besides,
25 it's not their money; it's all federal government

1 subsidy. In other words, it's ours, the tax payers'
2 money. Again, it's all too good to be true: A scam.

3 The life of the project may be 20 years,
4 however the payback is 30. What banker would loan you
5 the money on that? The turbine transmission life is
6 seven to ten years. What happens then? The cost to
7 repair or replace a transmission about \$1 million. The
8 burden of this will be indirectly passed onto the
9 consumer.

10 Canada, Australia, and every other country,
11 including Germany, whose government falsified data,
12 their electric rates have skyrocketed and so will ours.
13 NextEra is guaranteed a 23-cent kilowatt hour in
14 addition to what's on top of our current rate.

15 NextEra claims their decommissioning bond will
16 pay for the decommissioning. Is there going to be a
17 neutral party to watch this fund so it actually doesn't
18 go into somebody else's pocket? Once again, that's
19 taxpayer money.

20 In reality, the transmission and the blades are
21 the Achilles' heels of each turbine and require frequent
22 maintenance. The fiberglass blades cannot be recycled
23 like NextEra claims. In Casper, Wyoming, the cost of
24 burying 1000 blades in the landfill was estimated at
25 \$675,485 per the Cowboy State Daily.com. Not very

1 green. Too good to be true: A scam.

2 How can you trust NextEra? They have a blank
3 page in the participant's contract for anything to be
4 added later on and it's all legal because it's a signed
5 contract. They grease the palms of some of the local
6 and zoning commissioners in all three counties; Deuel,
7 Grant and Codington. Yet those people have refused to
8 recuse themselves even though they have a conflict of
9 interest. How can they be unbiased? Even some of the
10 PUC members have a conflict of interest.

11 **CHAIRMAN HANSON:** Next up.

12 **GREG RICHTER:** Ready? Greg Richter.
13 R-I-C-H-T-E-R. Address is 16525 462nd Avenue,
14 Watertown. Question on non-participant property
15 values. Do you folks know if there is any known
16 issues of value decreasing because of a turbine in
17 close proximity?

18 **DARYL HART:** We have several studies, as well
19 as nationwide studies show there is no correlation
20 between the wind farm or wind generation facility and
21 the degradation of a real estate property price.

22 **GREG RICHTER:** I spoke with one of your
23 NextEra land contract gentleman. I was given his name
24 by Luke Muller, because Luke wouldn't give me a call
25 back. Talked to him, told him my situation.

1 Interesting, he says, you might have to do what you
2 need to do on that. I talked to a gentleman by
3 Brandon, from the PUC. He was in the paper, told him
4 my issue, took my name down and thought it was quite
5 interesting also and was very good information.

6 We are selling our property and we had a
7 signed Purchase Agreement for an agreed-upon price.
8 Basically, the wind farm is not on our property, small
9 acreage, under three acres so it's very small.
10 Obviously, it's not part of the wind farm so we
11 thought that out of the goodness of heart we better
12 disclose that to the potential purchase buyers. We
13 put it on the disclosure form after the fact and they
14 pulled out of the purchase.

15 Our realtor now is stating that we might have
16 to drastically reduce the price to sell the property,
17 partly because of the wind farm. And I spoke to a
18 prominent lawyer in town just informally. He thought
19 I may have a good case, and he said I could possibly
20 seek litigation regarding the decrease to the value of
21 the property. Just case in point.

22 I have that purchase agreement. I have a
23 copy of the text from the party stating that that is
24 exactly why they pulled out of the purchase of the
25 property and the disclosure forms, so. Specific case

1 of property values being effected by the tune of tens
2 of thousands of dollars of property loss value from
3 the sale of the property.

4 **CHAIRMAN HANSON:** Could you describe your
5 property to us? Approximate distance.

6 **GREG RICHTER:** It is about three-quarters a
7 mile south-southeast of Waverly. And the wind turbine
8 is on the Comes land. What is the setback on that,
9 did you say, for non-participants? This gentleman's
10 statement was the setback.

11 **TYLER WILHELM:** For Codington County?

12 **GREG RICHTER:** Yes.

13 **TYLER WILHELM:** So for Codington County the
14 setback is 1,500 for non-participants.

15 **GREG RICHTER:** Yeah. It's probably right
16 there. It's damn close.

17 **TYLER WILHELM:** On top of that, I would note
18 that we also have to maintain a 50 dBA noise threshold
19 to the property line --

20 **GREG RICHTER:** Yep.

21 **TYLER WILHELM:** -- of the non-participant
22 where there is an existing receptor, which would put
23 us potentially over 1,500 feet.

24 **GREG RICHTER:** Yeah. I would be curious to
25 know those figures, the decibel on that.

1 **TYLER WILHELM:** Sure. Yes.

2 **CHAIRMAN HANSON:** Could you describe your
3 property to us. It's an acreage, I assume?

4 **GREG RICHTER:** It's an acreage. Fairly newer
5 house built in '01. New 56 by 60 pole shed that was
6 fairly within, probably 12 years old, so. Very nice
7 place. Any other questions?

8 **COMMISSIONER NELSON:** Can you give me your
9 address one more time?

10 **GREG RICHTER:** Yeah. 16525 462nd Avenue and
11 it's Watertown.

12 **DARYL HART:** And, sir, you have our contact
13 information. We can maybe discuss, we can talk to you
14 after the meeting or after the time of the back and
15 forth.

16 **GREG RICHTER:** Okay, yeah. Very good. Thank
17 you. Are you done, Commissioner Nelson?

18 **COMMISSIONER NELSON:** Yes.

19 **CHAIRMAN HANSON:** Thank you.

20 **COMMISSIONER NELSON:** Yes, thank you.

21 **CHAIRMAN HANSON:** Next up? You can save a
22 little time if you'd like to scoot up to the chairs
23 here. Good evening.

24 **GEORGE HOLBORN:** George Holborn, Sioux Falls,
25 South Dakota. Spelled H-O-L-B-O-R-N. To the best of

1 my knowledge, the first complaints registered by
2 Google industrial wind turbines is nearly four decades
3 old and a result from single 2.0 megawatt turbine
4 there in Boone, North Carolina. And many of these
5 complaints were made by people who had no knowledge
6 that turbine existed.

7 On March 2018 I presented what we found in
8 Codington County Ordinance 65 Industrial District.
9 Noise. All noise shall be muffled so as not to be
10 objectionable due to intermittence, beam frequency or
11 shrillness. We suggested this ordinance was in
12 conflict with industrial wind turbines at the time.
13 First District Government answered we have different
14 standards for different settings. At that point, we
15 were not allowed follow-up.

16 So my question is, why is noise less or more
17 objectionable at an industrial site in
18 Codington County than an industrial wind turbine site
19 in Codington County? Are those non-participants
20 living among the turbines of less importance than
21 other county citizens? Such inconsistencies are
22 imposed upon those who without choice by every layer
23 of government dealing with industrial wind turbines.

24 Secondly, this past spring we attended an
25 evidentiary hearing in Fort Pierre. We and others

1 wrote follow-up letters to the PUC.
2 Commissioner Hanson responded in kind to Brad Johnson
3 and me with very similar verbiage. He went on, by law
4 we must take several factors into account when
5 considering whether or not to grant a wind siting
6 permit. The primary duty, the primary duty of the
7 Commission is to ensure the location, the construction
8 and operation to the facilities will provide minimal
9 adverse effects to the health, safety, and welfare of
10 the environment and the citizens. Again, our
11 decisions, he goes on, must be based upon evidence
12 that is presented to the Commission by parties of the
13 docket.

14 At Prevailing Wind Park, LLC, the PUC granted
15 the non-participants 40 dBA. The Applicant's expert
16 was held in high regard. The Applicant employee
17 seemed to be held in higher regard than even the sound
18 expert hired by the PUC. At the Deuel Harvest
19 evidentiary hearing, independent expert testimony was
20 ignored when the PUC determined everyone, those
21 participating with the wind developer and those found
22 to live in the Deuel County sacrifice zone could live
23 with a 45 dBA. Please remember every 10 decibels
24 increase in noise loudness doubles after receptor.
25 That number would determine the threshold limit for

1 the non-participants.

2 Mr. Rand continues: If the PUC wishes to
3 hold the health, safety, and welfare in preeminence
4 above the profits of the wind developer, the threshold
5 for non-participants should begin at 35 dBA. Now,
6 these numbers may seem fastuous to a politician or an
7 absentee participant, but, in fact, it can be a
8 life-changing eventuality for those forced to live
9 among the turbines.

10 So you aware per Commissioner Hanson's letter
11 of what will produce minimal adverse effects to the
12 health, safety, and welfare of the environment and the
13 citizens. It appears to me that you are obfuscating
14 your primary duty. *Your primary duty*, your words, not
15 mine.

16 Please consider the words of D.M.
17 Deutschlander. "Good behavior best serves to keep
18 order and preserve society; bad behavior undermines
19 order and threatens society." Governments should be
20 concerned with behavior that deprives another of life
21 or property without justice. Thanks.

22 **CHAIRMAN HANSON:** Thank you, George. Further
23 presentations or questions?

24 **GAIL BAEZ:** I spoke but I have one more
25 question. It's on a different topic, if that's okay.

1 **CHAIRMAN HANSON:** All right. Since no one
2 else is.

3 **GAIL BAEZ:** I'll just be real quick.

4 **CHAIRMAN HANSON:** You have a friend I assume
5 who has just given you their five minutes.

6 **GAIL BAEZ:** My property is rural. Gail Baez.
7 B-A-E-Z. There is what we were told was a bird
8 sanctuary, and I don't know if it's officially a bird
9 sanctuary but it's near the Round Lake/School Lake
10 area. And I know it's a very popular hunting site --
11 geese, ducks, you know, all sorts of birds, gorgeous.
12 I'm just wondering if anybody has taken that into
13 consideration, because just from what I have read,
14 there are a lot of -- there is a lot of impact on
15 birds. And I know there is a study out there that
16 says that cars kill more than wind turbines and I'm
17 somewhat doubtful of that.

18 **SARAH SAPPINGTON:** You said Round Lake?

19 **GAIL BAEZ:** It's Round Lake, School Lake,
20 that whole area.

21 **SARAH SAPPINGTON:** That area is outside of
22 the project area but we can double check. All of
23 environmental impacts are listed in the application.

24 **GAIL BAEZ:** Okay. That -- I'm sorry. Go
25 ahead.

1 **SARAH SAPPINGTON:** Yeah, and so all the
2 environmental impacts are listed in the application,
3 including any issues with birds or any other wildlife,
4 that we can --

5 **GAIL BAEZ:** Because even if it were out of
6 the area, three feet, five feet or something,
7 obviously that could still be a problem.

8 **CHAIRMAN HANSON:** Good evening.

9 **ANITA RAML:** Hello. My name is Anita Raml.
10 A-N-I-T-A. R-A-M-L. And my husband and I live at
11 46562 170th Street, Goodwin. And we are proponents.
12 We are getting wind towers on our property. And
13 everybody has their opinion, you know, good or bad.
14 We have found that working with NextEra, we have had
15 no problems. We have had so many different people
16 coming on to our land taking different surveys, like,
17 artifacts from Indians and all that, and we've had
18 people go through our creeks and stuff to make sure
19 there aren't any little frogs or something like that
20 that are endangered.

21 And if you look at the people that are
22 saying, the flicker. Well, we got all these TV towers
23 and communication towers that have red lights. And I,
24 myself, when I see a wind tower going down the
25 Interstate, I think, wow, you know, we got wind energy

1 and we don't have a big smokestack, because I have
2 been going through Montana, going out to the
3 West Coast, and you can see that smoke just rolling
4 miles away. So I believe wind power is in the right
5 direction.

6 And I also read an article in the Tristate
7 Neighbor magazine that you had put an article in,
8 Mr. Hanson, and it says, Why are you letting all these
9 wind towers in? And you said, We need evidence. That
10 is what he says. If all these applications come in
11 and they are doing just what the applications ask of
12 them, and there is no evidence against them, how can
13 we not let them have their application? And I've
14 listened to a lot of these complaints and it comes
15 down to, okay, this commissioner or this county
16 agency. Well, look at who you're voting for. Maybe
17 if you're not, don't like what they're doing, replace
18 them. Get a different commissioner or whatever it
19 takes.

20 I live one-half mile from a dairy farm, and I
21 can hear -- I sit outside. I can hear those fans
22 running all the time. I mean, those are loud. My
23 husband went to a sale down by Lake Benton. He was
24 right under a wind tower and he could not hear it. So
25 and now I've got another application for another

1 confined animal a mile away. And the smell? Nobody
2 worries about that. And they worried about
3 trespassing.

4 Well, you've got all these planes and
5 everything else that are going over. Are they
6 trespassing? I've had helicopters going right over my
7 and they even shake the windows in my house. It's
8 just what they have to do. We have to live with some
9 thing and, you know, I can't see why a flicker or a
10 shadow would be trespassing.

11 So that's my opinion and I'm hoping that the
12 Commissioners will look at all the evidence and give
13 the wind tower, NextEra, the application for approval.
14 Thank you.

15 **CHAIRMAN HANSON:** Next up.

16 **WAYNE BORGHEIINK:** My name is Wayne
17 Borgheiinck. B-O-R-G-H-E-I-I-N-C-K. This spring,
18 first week of April, south of Storm Lake, Iowa, wind
19 turbines fields were two miles away. I stopped at
20 3:00 in the morning and at 3:00 in the morning, do you
21 know how loud they are? At 3:00 in the morning, more
22 than two miles away, I could feel the wind turbines
23 every time they turned. I could hear them distinctly.

24 Later on, Lake Benton, Minnesota, Hole in the
25 Mountain Park down there. Last month, at 3:00 in the

1 morning, when it's still damp out, them wind turbines
2 are distinctly loud and I can feel it a mile and a
3 half away.

4 This spring I took a friend to the VA. On
5 the way home I took him through Toronto-Esteline.
6 He's a Vietnam veteran and a Desert Storm veteran.
7 Took 10 minutes standing between those turbines
8 standing on the road and he was nauseated so we had to
9 leave. Took him down the road until he felt better,
10 got out again, and took less than five minutes and he
11 nauseated from the turbines nearby.

12 I find the majority of people oppose wind
13 turbines in this area, but many of them are not here
14 because they have lost faith and believe this is a dog
15 and pony show. They feel the decision is already made
16 ahead of time. They lost faith in the government.

17 U.S. Desert Storm veterans are told for a
18 year that our chronic pain and fatigue was our
19 imagination. One VA doctor told me personally, "Do
20 not think of it and it won't hurt." Veterans'
21 organizations, along with independent research because
22 government research did not do the job, and finally
23 convinced Congress or proved to Congress that the
24 percentage of Desert Storm veterans with these
25 conditions was grossly higher than the rest of the

1 percentage of society.

2 Now, I hear thousands -- I read and I hear
3 thousands of people that live near wind turbines are
4 having health issues to include wind turbine syndrome,
5 vertigo and balance issues, sleep disturbance,
6 headaches, tinnitus, nervous and sporadic heartbeat,
7 nauseous, difficulty with concentration, memory loss,
8 and anger vibroacoustic disease, and also according to
9 World Health Organization Medical Code T75.2, it
10 causes direct tissue and organ damage. And you wonder
11 why these people are concerned about the noise and the
12 flicker near them. Okay. That's a good reason to be
13 concerned.

14 Volumes of documents from peer reviewed,
15 independent studies and testimony from the part of
16 people who live around these things have been
17 submitted to county and state officials to support
18 this health problem. They were pushed aside. Some of
19 them are referred to as antidotal. Man, that's just
20 like telling this veteran the thing's in your head.
21 Don't think about it and you won't feel it. Man, I'll
22 tell you what, it takes me back a ways. Okay? No,
23 they told you the wind turbine research and the
24 reports they come up with by government agencies,
25 where the people that do these studies are told by

1 elected officials who have received thousands of
2 dollars of campaign from NextEra.

3 Now, that information is available on Open
4 Secrets dot org. along with other public domains. I
5 assure you, when compared to the rest of society, the
6 number of people experiencing these health issues
7 while being exposed to wind turbines will be gross to
8 higher than the rest of society. While the exact
9 cause is not yet totally understood, it is obvious
10 that these health problems are from exposure to wind
11 turbines which by all of these county ordinances are
12 way too close to residents.

13 In fact, Mason County, Iowa, just a few weeks
14 ago their Health Department declared wind turbines a
15 health hazard in line with the World
16 Health Organization and made a mandatory mile-
17 and-a-half setback. Now, these are real numbers.
18 This is reality. Now, reality is facts. You want
19 facts? Here is your facts. When Congress can act on
20 these type of facts to care for us veterans, it's
21 pretty obvious our local and state governments should
22 fall in line with that to protect our citizens. And
23 that's how you can restore faith in the system. Start
24 listening to the people, the real people with the real
25 facts, the real feelings. Thank you.

1 **COMMISSIONER NELSON:** Wayne, where do you
2 live?

3 **WAYNE BORGHEIINK:** I live in Waverly.

4 **COMMISSIONER NELSON:** Thank you.

5 **WAYNE BORGHEIINK:** Sorry for not telling you.
6 I'm sorry for leaving that out.

7 **CHAIRMAN HANSON:** We're going to have a short
8 recess.

9 **(RECESS TAKEN AT 7:01 P.M. TO 7:14 P.M..)**

10 **CHAIRMAN HANSON:** A couple of housekeeping
11 items. If you have turned in written items to our
12 court reporter, Nancy, you need to sign those and
13 place your address on them if you would like to have
14 them posted on the PUC site. Additionally -- Let's
15 see, what is the additionally?

16 **COMMISSIONER FIEGEN:** If they don't want them
17 posted, she would like them.

18 **CHAIRMAN HANSON:** Nancy has informed us, if
19 you have written comments of what you discussed, she
20 would like to have them so that she can refer to them
21 to make sure she gets everything correct.

22 Okay. So we're back on. I thought you were
23 going to take the podium. You have about 40 pages
24 there so I --

25 **(LAUGHTER.)**

1 **LINDA LINDGREN:** I could.

2 **CHAIRMAN HANSON:** It's going to be a little
3 long. Are you going to challenge us?

4 **LINDA LINDGREN:** Sure.

5 **CHAIRMAN HANSON:** Thanks for coming.

6 **LINDA LINDGREN:** My name is Linda Lindgren.
7 16050 464th Avenue, South Shore.

8 The Negative Health Effects of Wind Turbines:
9 Wind Turbine Syndrome. The negative effects the wind
10 turbines can cause great harm to people who have had
11 no previous problems. Audible noise, infrasound,
12 shadow flicker are some of the components of wind
13 turbine syndrome. Disruption to the view shed is
14 another factor affecting the health of people living
15 within a commercial wind electricity plant.

16 Lack of sleep from the noise can cause a
17 number of diseases by decreasing our resistance. High
18 blood pressure, anxiety, depression, cancer, and
19 numerous other diseases can develop by lack of sleep
20 and the noise itself. Inaudible noise or infrasound
21 causes the body to build scar tissue. Infrasound
22 affects the heart by thickening the walls by up to
23 20 percent. The defense the body builds against
24 infrasound causes all sorts of problems; arthritis,
25 cancer, heart problems, anxiety and the list goes on.

1 Shadow flicker can cause epilepsy, dizziness,
2 vertigo, migraines, etc. The view shed disruption
3 causes depression as it disrupts the peace and
4 tranquility that many people must have to stay
5 healthy. How many of us can say that they or their
6 family members have no health problems that would be
7 exacerbated by infrasound, shadow flicker, and audible
8 noise? Anyone who has cancer or is a cancer survivor
9 has heart problems, epilepsy, autism, PTSD,
10 depression, motion sickness, COPD, sinus pressure
11 problems, and the list goes on. They will have
12 exponentially worse symptoms living in a commercial
13 wind electric generating complex.

14 And many of the people that would be
15 suffering will be veterans. I think we should give
16 our veterans the rights they fought so hard to defend.

17 Disruption of the view shed is another factor
18 affecting our health. To many people the peace and
19 serenity of living in the country is necessary for our
20 mental health and well-being. People with depression
21 and PTSD, for example, will suffer if their beautiful
22 area they live in is ruined by these giants. Is the
23 idea of a few dollars more important than the health
24 safety, well-being of our citizens? It is your job to
25 protect us. Please deny this permit, or at the very

1 least have a two-mile setback with waiver.

2 Also I would like to reiterate the Prevailing
3 Wind was given a 40-decibel noise level by the PUC.
4 The same PUC that granted 45 decibels to Crowned Ridge
5 I. Please, give the people in the Crowned Ridge II
6 project the same courtesy, health and safety, as you
7 did in Prevailing Wind.

8 I'm wondering, was it too much trouble to
9 tell the non-participator when they sent out those
10 letters the distances and sound and flicker studies of
11 their home? They would have time to really find out
12 what the decibel level means.

13 And one more thing here. The Applicant has
14 omitted receptors and let's call the receptors what it
15 is -- a home. The Commission has the duty and the
16 public has the right to know.

17 **CHAIRMAN HANSON:** Mr. Nelson has a question
18 for you.

19 **COMMISSIONER NELSON:** Yes. Linda, be very
20 specific what receptors are not in their report. That
21 we do need to know.

22 **LINDA LINDGREN:** My co-conspirator, Kristi,
23 was not able to finish so she gave this to me so I'll
24 ask her.

25 **KRISTI MOGEN:** I can provide that.

1 **COMMISSIONER NELSON:** Okay.

2 **CHAIRMAN HANSON:** Good evening, sir.

3 **DARO CRANDALL:** Good evening. Daro Crandall.
4 D-A-R-O. Last the name is C-R-A-N-D-A-L-L. Fifth
5 generation Dakotan. I'm here in opposition just
6 because more so than anything about the future of this
7 state. Would you guys be building in South Dakota
8 without the tax subsidy? You don't have to answer. I
9 think I know the answer.

10 I asked for reclamation. You said NSP will
11 replace down to four feet but the foundation goes down
12 to eight feet. What happens to that last four feet?

13 **DARYL HART:** Would you like me to answer?

14 **SPEAKER FROM THE AUDIENCE:** You can.

15 **DARYL HART:** The last four feet remain and
16 that is due to the extensive environmental impact
17 that's required to remove the rest of the foundation.

18 **DARO CRANDALL:** So that's not total
19 reclamation?

20 **DARYL HART:** It's reclamation down to
21 four feet.

22 **DARO CRANDALL:** You claim they're
23 environmentally safe in operation yet many existing
24 turbines leak oil.

25 **MARK THOMPSON:** Yes. You will have leaks,

1 which are minimal on turbines. There are SPTC plan
2 that was put in place to take care of any spill that
3 would eventually hit the ground.

4 **DARO CRANDALL:** I know down in Toronto in the
5 Brookings area, you can physically see where the oil
6 has run down the turbines. There is also the effect
7 the turbines have on wildlife, particularly birds. I
8 think it was addressed earlier by somebody. How do
9 you guarantee the 30 hours of flicker per year?

10 **JAY HALEY:** The turbines can be shut off
11 automatically by the operator, based on the calendar
12 and the knowledge of exactly what time of the day and
13 what day of the year that flicker will occur. They
14 can program that into the turbine and tell the turbine
15 to shut off in five minutes or ten or whatever it
16 takes.

17 **DARO CRANDALL:** How about the decibel level?
18 How do you fix that? It's more than 42 decibels.

19 **JAY HALEY:** Noise is controlled by distance
20 from residents.

21 **DARO CRANDALL:** Okay. So basically, when you
22 guys are done with this, you guys are from Florida,
23 once you're done and sold it off to NSP, you're
24 washing your hands of the whole thing? Is that pretty
25 much it?

1 **DARYL HART:** The responsibility of the
2 project for the Crowned Ridge?

3 **DARO CRANDALL:** Once you're done building and
4 sell it to NSP, then you're going to wash your hands
5 of the whole thing?

6 **DARYL HART:** I'm sorry, wash our hands,
7 but --

8 **DARO CRANDALL:** Well, it's sold to NSP, then
9 you guys, you care less of what happens in reclamation
10 and things like that.

11 **CHAIRMAN HANSON:** Please don't talk over each
12 other.

13 **DARO CRANDALL:** Because that's what I'm
14 trying to find out. Your commitment goes to the
15 building itself. Thank you.

16 **CHAIRMAN HANSON:** Thank you. I just wanted
17 to make sure you understood. Don't talk over each
18 other. She can't type two conversations at the same
19 time. Thank you.

20 **DARO CRANDALL:** Okay.

21 **DARYL HART:** The responsibility for the
22 project for reclamation/decommissioning move to the
23 future owner of the project, NSP.

24 **DARO CRANDALL:** All right. One other thing
25 is, tourism is one of the major economic factors

1 in South Dakota. I realize farming is too. I grew up
2 on a cattle ranch. Due to unforeseen things with
3 drought we no longer run that business, but I
4 understand landowners, you know, looking for ways to
5 make up extra income. So I don't fault you for that,
6 but just think of the future. I got a quote I'd like
7 to share with you all. It's by Theodore Roosevelt.

8 "No one but he who has partaken thereof can
9 understand the keen delight of hunting in lonely
10 lands. For him is the joy of the horse well ridden
11 and the rifle well held; for him the long days of toil
12 and hardship, resolutely endured, and crowned at the
13 end with triumph. In after years there shall come
14 forever to his mind the memory of endless prairies
15 shimmering in the bright sun; of vast snow-clad wastes
16 lying desolate under gray skies; of the melancholy
17 marshes; of the rush of mighty rivers; of the breath
18 of the evergreen forest in summer."

19 I don't hear anything about wind generators
20 there. And I guess what I would like to leave you all
21 with is the words of Katharine Lee Bates. Anybody
22 familiar with her? "O beautiful for spacious skies
23 for amber waves of grain." I hear nothing in there
24 about wind turbines. I mean, I live in South Dakota
25 because I'm a prairie son, and I'm a proud prairie

1 son, and I'd like to preserve the prairie as much as
2 we can.

3 **COMMISSIONER NELSON:** Daro, can you give us
4 your residence address?

5 **DARO CRANDALL:** Yeah, just -- 2101 Cedar
6 Drive Northeast, Watertown.

7 **JOANNE WEEG:** Joanne Weeg. I know I was up
8 once before, but I do have a concern after listening.
9 A neighbor of mine I just found out is a participant
10 in the wind turbines. Not saying that's bad. Not
11 saying it's good. But I do know that she has just
12 purchased quite bit of land right in Bemis, which goes
13 right up to my property, and pretty sure she's going
14 to take down all the tree groves that's there for
15 these wind turbines. So what are we going to do to
16 preserve our trees? Bemis is not that big but it is
17 pretty. And now half the tree rows in Bemis are going
18 to be gone. I'm addressing you guys. So what can we
19 do to preserve that? What's the game plan for that?

20 **TYLER WILHELM:** Per our conversation earlier,
21 I would like to understand exactly where your place,
22 is and we will follow up on that. I will give and
23 provide information which is public or online where
24 the turbines are. Help understanding where this
25 treeline is and if it will even be impacted.

1 Oftentimes there is no reason for us to remove trees.
2 Sometimes there is.

3 **JOANNE WEEG:** I know she bought up -- Go
4 ahead. Sorry.

5 **TYLER WILHELM:** I was just going to say it's
6 all about location and a case-by-case situation. All
7 we can do is help you understand what's proposed in
8 the general area, in proximity to your property.

9 **JOANNE WEEG:** Everything that she bought is
10 within this tree grove. So even if she was just going
11 to use it for the farm land, she's still going to
12 destroy it, but I know that -- I just now found out
13 that she is a participant. You got my address; right?

14 **TYLER WILHELM:** I have your contact
15 information, yes, ma'am.

16 **AMBER CHRISTENSON:** Yep. Thank you.

17 **CHAIRMAN HANSON:** Thank you.

18 **AMBER CHRISTENSON:** Hello. Amber
19 Christenson, Strandburg. I wasn't going to speak but
20 I do have a couple questions from your presentation.
21 So the distance, when you build the foundation, the
22 foundation looks like it's maybe what? Typically
23 about 60 feet; is that right?

24 **MARK THOMPSON:** About 50 feet in diameter.

25 **AMBER CHRISTENSON:** Fifty feet. Well, looks

1 like there was a lot of earth moved around there.
2 Typically, how much soil, how much room is actually
3 disturbed during the construction of one turbine?

4 **MARK THOMPSON:** So what you saw on that
5 photograph was basically earth being excavated to
6 actually place the foundation and additional earth
7 being excavated to access that location. Once you're
8 done, once the entire foundation is in place, all of
9 that earth is put back in place. Now, the question
10 might be asked, but you just put a 50-foot slab of
11 concrete. But actually, the design of the foundation
12 does incorporate putting back most, if not all, of
13 that soil and it's used for balancing. It balances
14 the nacelle at the top so that you don't have
15 problems. The weight of that soil is very important
16 to come back on top of the concrete.

17 **AMBER CHRISTENSON:** And compacted.

18 **MARK THOMPSON:** And compacted.

19 **AMBER CHRISTENSON:** And that compaction is
20 what keeps it from -- timber.

21 **MARK THOMPSON:** The question was asked
22 whether or not eight feet is enough depth for a
23 foundation that size, and the answer to that is, yes,
24 it is, and it's because of the amount of soil that
25 goes back on top of the concrete.

1 **AMBER CHRISTENSON:** So, typically, in a
2 field, like, how much of a field is disturbed? Like,
3 I know you said that that dirt is put back, but I
4 mean, that was like maybe a quarter. I don't know.

5 **MARK THOMPSON:** It's less than a quarter of
6 an acre that is disturbed.

7 **AMBER CHRISTENSON:** Oh, really?

8 **MARK THOMPSON:** Yes. You mean for the actual
9 foundation itself?

10 **AMBER CHRISTENSON:** Oh, no, just when you're
11 building it. I mean, it just looks like the whole
12 field was kind of -- That's just the only picture I've
13 seen on construction.

14 **MARK THOMPSON:** So the temporary disturbance
15 for an actual wind turbine, when you talk about
16 temporary disturbance, you're talking about access
17 road, the crane pad. It's about four to
18 four-and-a-half feet.

19 **AMBER CHRISTENSON:** All right. Thank you.
20 And then another question for you, Mr. Thompson.
21 After the foundation is poured, or built, whatever,
22 after the foundation is completed, approximately how
23 long does that have to cure, or how long before you
24 actually assemble the actual tower on top of a
25 foundation?

1 **MARK THOMPSON:** Typically, the time that you
2 wait has to do with the cure of the concrete. And you
3 typically go seven days, you test the concrete to make
4 sure that it's hard enough. If you don't have that
5 hardness that you're looking for in terms of time, you
6 go another seven, eight days. So you typically wait
7 about two weeks before you start putting all of the
8 infrastructure on top of it.

9 **AMBER CHRISTENSON:** Really, only two weeks
10 and then it's solid? Okay.

11 **MARK THOMPSON:** (Nods affirmatively.)

12 **AMBER CHRISTENSON:** Then, this one is for
13 either Daryl or Tyler. So you have all the FAA
14 approval, I believe, for Crowned Ridge II; is that
15 correct?

16 **TYLER WILHELM:** No. We actually have, I
17 believe -- I believe it's four turbines that are
18 remaining to meet FAA approvals.

19 **AMBER CHRISTENSON:** Okay. Okay. So my time
20 counts like when they're answering my questions as
21 well? Okay. Well, then I'm going to scoot right
22 along and say, Darren, you negotiated the conditions,
23 I believe, for Crowned Ridge II and you set the
24 conditions to be 250 feet that they could move a
25 turbine. Were you notified that the FAA only approved

1 a one-second movement? Did they tell you that? Which
2 is what in our area would be 101 feet?

3 **CHAIRMAN HANSON:** Darren is not the only
4 person who negotiates. We have attorneys and a number
5 of other persons.

6 **AMBER CHRISTENSON:** All right. That was my
7 impression from the hearing. My mistake.

8 **CHAIRMAN HANSON:** He's not --

9 **AMBER CHRISTENSON:** Okay. So you weren't
10 notified -- I don't know who to ask then.

11 **CHAIRMAN HANSON:** Well, you can ask the
12 Applicant.

13 **SPEAKER FROM THE AUDIENCE:** So did you notify
14 them that you could only move turbines one second?

15 **TYLER WILHELM:** That's a requirement from the
16 FAA. So if you need a determination, you can only
17 move the turbine up to one second.

18 **AMBER CHRISTENSON:** Right.

19 **TYLER WILHELM:** Correct. What was it, did I
20 notify --

21 **AMBER CHRISTENSON:** I just didn't know if
22 they were aware of that, because they said 250 feet
23 and one second is only 101 feet.

24 **TYLER WILHELM:** Well, so the Commission
25 through other wind dockets and what we've seen what

1 the feet is, there is a possibility up to 250 feet.
2 We ship the turbines, by all means, we are letting the
3 PUC know that we have shipped to a turbine location
4 regardless of the distance.

5 **AMBER CHRISTENSON:** Okay. I don't think
6 we're connecting here, but that's okay.

7 **TYLER WILHELM:** I'm sorry. I didn't
8 understand the question. Please repeat it.

9 **AMBER CHRISTENSON:** The other thing is
10 Crowned Ridge I has no money. Does Crowned Ridged II
11 have a bank account with any money, or are we going to
12 do liens and mortgages?

13 **DARYL HART:** There is no money assigned to
14 Crowned Ridge II. There is no bank account.

15 **AMBER CHRISTENSON:** All right. Thank you.

16 **CHAIRMAN HANSON:** Who is next? Next up?
17 Lots of good questions tonight.

18 **UNIDENTIFIED SPEAKER:** Yes, sir.

19 **CHAIRMAN HANSON:** Okay.

20 **WAYNE BORGHEIINK:** I spoke earlier. Can I
21 just ask one question?

22 **CHAIRMAN HANSON:** Well, I broke the precedent
23 but I'll allow it. So we'll give everybody two shots.

24 **WAYNE BORGHEIINK:** Okay. Name is Wayne
25 Borgheiink. Do you have that? I have a friend east

1 of Milbank who's in the middle of the construction
2 project right now. He talked to me the other day, and
3 he says, they're coming in with semi loads of
4 explosives because east of Milbank they're using
5 explosives to penetrate the bedrock so they can make
6 40 feet to get the towers in. That brings an issue.
7 Up in this area we have shallow aquifers. Now, you
8 start igniting, you start setting off explosives, and
9 blow the circuits all around our area here, that is
10 going to be real interesting. The question would be,
11 is how is that affecting our aquifers and doesn't
12 anybody even know how that's going to affect the
13 aquifers, or are they just assuming it's not going to
14 affect the aquifers? I don't know, you might not be
15 able to answer that question, because, but --

16 **CHAIRMAN HANSON:** So the question is, are
17 there semi loads of dynamite? Are you going to a
18 40-foot depth and what's the effect? And is there
19 anyone watching out for the aquifers?

20 **MARK THOMPSON:** I can answer the question
21 about the depth of the foundation. Crowned Ridge II
22 has no foundation below eight feet. Okay.

23 **WAYNE BORGHEIINK:** Well, my question --

24 **CHAIRMAN HANSON:** Just let him answer.

25 **WAYNE BORGHEIINK:** I was just told the

1 40 feet is the transmission line, though. And like I
2 said, I know -- I'm very familiar with east of Milbank
3 there is a lot of granite bedrock there, and they are
4 using, and they are, they are using explosives,
5 because yesterday, one explosive vibrated. I don't
6 know how far from his house it was. He was sitting in
7 front of the house. His lawn chair on his deck
8 bounced off of the deck from the explosion. I'd say
9 that's kind of an interruption of people's lives and
10 that does not really fall in line with the statement,
11 with the mission that they're not supposed to
12 interrupt people's lives out here while they're doing
13 this, so.

14 **MARK THOMPSON:** I'm also familiar with the
15 foundation designed for the line, and those are not at
16 a depth of 40 feet. Based on what we know and the
17 design that we have put forward, we don't have to use
18 explosives to get to the depth that we're looking for
19 on this project.

20 **WAYNE BORGHEIINK:** I don't know about this
21 project, but I know that project they are using
22 explosives.

23 **AL ROBISH:** Al Robish from Strandburg. I'm
24 going to talk a little bit more about the foundation.
25 You say you only go down eight feet?

1 **MARK THOMPSON:** Yes, sir.

2 **AL ROBISH:** No rebar or anything that spreads
3 out to anchor that? Only 50 foot diameter is going to
4 hold that thing from tipping?

5 **MARK THOMPSON:** Yes.

6 **AL ROBISH:** I've seen pictures of them where
7 they tip over and the concrete is still attached to
8 it. What happened to that?

9 **MARK THOMPSON:** The design behind the
10 foundation is almost -- It's not anchored in the
11 ground as you mentioned.

12 **AL ROBISH:** Did they used to do that?

13 **MARK THOMPSON:** There are foundations that
14 are anchored. They're known as rock anchor
15 foundations.

16 **AL ROBISH:** Okay.

17 **MARK THOMPSON:** As a matter of fact, rock
18 anchor foundation might be shallow of what we go with
19 ours. These are not rock anchor foundation. These
20 are actual foundations. They're better known as
21 spread foundation.

22 **AL ROBISH:** Spread foundation?

23 **MARK THOMPSON:** Yes.

24 **AL ROBISH:** Okay. Thank you.

25 **CHAIRMAN HANSON:** Anybody else? Yes. Good

1 evening.

2 **AMY RALL:** Good evening. My name is
3 Amy Rall. I'm from Goodwin, rural Goodwin.

4 **CHAIRMAN HANSON:** Spell your last name.

5 **AMY RALL:** R-A-L-L.

6 **CHAIRMAN HANSON:** Thank you.

7 **AMY RALL:** We moved from White to get away
8 from these towers, and now we're dealing with them
9 again. I hate the thought of having to move again.
10 We have been a retirement home for horses from a
11 therapeutic riding facility for about 30 years. One
12 horse, Rio, was an exception. He came from a friend
13 of mine who had cancer, couldn't take care of anymore.
14 We had an old horse, Mister, 38 years old, started
15 going downhill, and we knew we were going to put him
16 down. Normally what we would do is we would get
17 another horse before having to put the one down,
18 because horses need a companion. Rio would go
19 ballistic without a friend. But because of the wind
20 towers, we decided to find a different home for Rio.
21 So now he's elsewhere free from turbines here.

22 You may ask, why didn't you just get another
23 horse? We don't want to put torture, torture our
24 animals. We don't want the shadow flicker,
25 vibrations, air turbulence, low frequency noise,

1 stress. Horse's reaction would be to, they just like
2 they want to run away. Wind-up getting hurt trying to
3 go through fences. There was a study conducted by
4 then Ph.D. candidate Mariana Alves-Pereina, after
5 horses were born and raised, developed asymmetric
6 flexural limb disorders shortly after wind turbines
7 became operational. This was back in November of '06.
8 Happened in Portugal. There were no other changes in
9 the area.

10 Mariana wrote, "Tissue analysis of the
11 defected tendons were performed and revealed the
12 classical features of low frequency noise induced
13 biological responses: thickening of blood vessel walls
14 due to proliferation of collagen in the absence of an
15 inflammatory process."

16 The study of 19 foals that had front limbs,
17 including coffin and pedal bone rotation and clubbed
18 feet. Several of the horses had to be euthanized.
19 The towers that were installed were 984 to 2297 feet
20 from their farm. The study showed healthy horses
21 brought into the farm showed adverse effects shortly
22 after being there.

23 I have also read about dairy cows not
24 producing as much milk. There is a higher death rate
25 among calves, and other animals. And we all know that

1 they are bird and bat killers.

2 In this area, where they're proposing this,
3 we got a lot of farmers, a lot of cattle. What's it
4 going to do to all those cattle? And what's it going
5 to do to other horses, the cattle, other animals?
6 What's it going to do to us? How many people in three
7 counties, participants and non-participants,
8 understand what kind of effects the wind towers are
9 going to have on them? They won't hear it from
10 NextEra. Setbacks should be at least two miles from
11 all residences, in town and rural. Personally, I
12 would prefer 10 miles.

13 **CHAIRMAN HANSON:** Thank you, Amy.

14 **KRISTI MOGAN:** Hi, it's Kristi. I'm going to
15 take my second crack and ask two questions. Tyler,
16 during the presentation, did you use Grant County's
17 ordinance that was in effect in November and December
18 of 2018? Or did you use the new one that came into
19 effect at the end of January 2019? The conditional
20 use permit for Grant County was approved in December
21 of 2018. Which ordinance did you use in the
22 presentation?

23 **TYLER WILHELM:** Well, for this piece of
24 Grant County, was separate from what I believe you're
25 referring which was the the Cattle Ridge Wind which is

1 part of CR I docket, which is separate from this one.
2 So we would have used the -- Sorry, I don't know the
3 ordinance by name. It would have been the ordinance
4 that is listed within the presentation.

5 **KRISTI MOGAN:** The ordinance in the
6 presentation is the new ordinance that was done in
7 January of 2019.

8 **TYLER WILHELM:** If that is the new ordinance,
9 then -- I'm sorry, are you saying what's in the app.
10 was in the presentation is not consistent with the
11 newest ordinance?

12 **KRISTI MOGAN:** I was under the impression
13 that these are Crowned Ridge I and II turbines?
14 You're saying their Cattle Ridge?

15 **TYLER WILHELM:** No, these are just
16 Crowned Ridge II turbines. I know that we've been
17 through multiple proceedings in Grant County with
18 Cattle Ridge, Crowned Ridge, Crowned Ridge II so I
19 just wanted to make sure we were on the same page.

20 **KRISTI MOGAN:** I think you should check your
21 ordinance that's being used.

22 **TYLER WILHELM:** Sure. Okay.

23 **KRISTI MOGAN:** Do you remember in April, I
24 think it was April, we were at the hearing for the
25 transmission lines, and we were told those foundations

1 were 40 feet?

2 **TYLER WILHELM:** I believe that we boldly said
3 potentially up to 40 feet in certain areas. I would
4 like to check the minutes as far as what was actually
5 said.

6 **KRISTI MOGEN:** I don't have those with me,
7 but it seems that there is a little consensus over
8 here that we're remembering 40 feet.

9 **TYLER WILHELM:** It's a possibility that up to
10 40 feet was mentioned.

11 **KRISTI MOGAN:** Okay. All right. Thanks.

12 **CHAIRMAN HANSON:** The last invite. Well, we
13 appreciate all of you being here this evening. This
14 is always a challenging process for the Commission. I
15 want to reiterate a couple of things that I think are
16 important, and I know that my fellow Commissioners may
17 have something to say as well. There have been a lot
18 of questions pertaining to the decision-making
19 process. The state law requires us to follow evidence
20 that is presented during an evidentiary hearing or
21 through the process of submitting evidence that is
22 accepted to the Commission. We're not legislators.
23 I'm not putting legislators down. I was one once upon
24 a time. The fact is that, as a legislator, you gather
25 information you hear what people say, and make your

1 decision.

2 Our position is it has to be based on
3 evidence, whether we love something or hate something,
4 we have to base it on the evidence that's presented to
5 us, and there are times that we struggle with that.
6 But the fact is that whatever decision we make, it can
7 be appealed to the Circuit Court and to the Supreme
8 Court and we can be overturned. So our orders are
9 generally around 40 pages long, because we have to
10 justify all of those criteria that are based in law.

11 So if you have some strong feelings about
12 something, if you have some evidence to present to us,
13 we want that to assist us in making our decision. A
14 lot of the things that were presented here this
15 evening are items that we deal with pretty much every
16 time. Some of them are new to us. And we will ask
17 those questions during the process. But we won't
18 necessarily have the evidence. There is some folks
19 that read some things to us this evening. We
20 appreciate that. But, again, that's not evidence to
21 us.

22 Those persons who were promised a follow-up
23 by the Applicant, that they say they would follow up
24 with you and work with you, we would appreciate very
25 much knowing that they do actually follow up and how

1 that process works with you. And as I stated earlier,
2 we're not able to talk to you directly. We're in a
3 quasi-judicial position similar to a judge. You
4 wouldn't be able to walk up to a judge outside of the
5 courtroom and outside of the hearing process and start
6 talking to them about your case, so to speak. So the
7 docket, you're not allowed to do that with us, because
8 it prejudices our position. We would have to recuse
9 ourselves and not participate.

10 Some of the questions were regarding items
11 that we don't control, necessarily. We are required
12 to give due consideration to local government. So if
13 you've got a challenge as some folks said with the
14 local government, you need to work that out.

15 There was statements, several statements
16 about our decisions not necessarily being consistent
17 from one docket to the next. That is, again, because
18 we base our decision, we're required to base our
19 decision on the evidence that is presented to us. And
20 we can't carry over that evidence from one docket to
21 the next to the next. So if in one case, for
22 instance, we used forty decibels and in another we
23 used 45, the strongest evidence, and there is
24 conflicting evidence that's presented to us through
25 the entire process. So we have to base our decision

1 on that strongest evidence. And the strongest
2 evidence in one may have showed 40 decibels and
3 another one, 45. So that's how some of the areas are
4 not totally consistent. And before I say anything
5 else, I'll jump over to the other Commissioners.

6 **COMMISSIONER NELSON:** Thank you. I have just
7 one question for the Applicant. At this point, do you
8 have a completed transmission interconnection
9 agreement for this project?

10 **DARYL HART:** The interconnections have not
11 been executed for this project, but we have two
12 positions for the full capacity that we have applied
13 for.

14 **COMMISSIONER NELSON:** When do you expect
15 those agreements would be executed?

16 **TYLER WILHELM:** So let me rephrase the --
17 reanswer that. So we do have one interconnection
18 agreement that is executed for this project for
19 roughly 200 MW. We have an additional queue that's
20 out there that would allow us to supply the full
21 capacity of the site. I believe our first study cycle
22 for that interconnection queue comes December of this
23 year. And those would be executed late 2020. That
24 actual interconnection agreement would be executed
25 late 2020.

1 **COMMISSIONER NELSON:** So there is a
2 possibility that that may not happen; is that
3 accurate?

4 **TYLER WILHELM:** There is a lot of studies
5 that need to be considered by both us and the customer
6 so there is a possibility, yes, sir.

7 **COMMISSIONER NELSON:** Thank you. That's all
8 the questions I've got tonight. As
9 Commissioner Hanson indicated, we will have an
10 opportunity as this progress plays out to ask a lot
11 more questions. I simply want to say thank you to
12 those of you that came tonight. I appreciate all of
13 your comments. Obviously, we heard some great passion
14 from some of those speakers tonight. I appreciate
15 that. So, again, thank you for being part of this
16 process. We're a long ways from being done with it,
17 and I suspect that we will be working with a number of
18 you as we play this out. Thank you.

19 **CHAIRMAN HANSON:** Commissioner Fiegen.

20 **COMMISSIONER FIEGEN:** So, thank you. At the
21 evidentiary hearing, I will follow up with a question,
22 if that's a MISO interconnection. I won't waste your
23 time tonight. But thank you so much for coming out.

24 I do have a question for the Applicant. When
25 you show community benefits, and I know this is a

1 broken record so you, the Commissioners have heard me
2 and I know you guys have all heard me. I'm assuming
3 that the Deuel School District, Waverly, and Watertown
4 are at that ten-year time frame. So the first five
5 years it's full payment; the last five years are that
6 20 percent step down so that it goes to zero at ten.
7 Why don't you show the South Dakota School District
8 payment from year 11, I guess, after 10 on to 25?

9 **DARYL HART:** So after the ten-year benefit,
10 which I believe goes to the state and the local
11 effort, I guess, I'm not a tax expert, but I believe
12 that the local effort takes the place of it, so.

13 **TYLER WILHELM:** So if I heard the question
14 correctly, Commissioner, so what we represented in our
15 presentation was the local benefit and we did not
16 include what happens after the year ten and then it
17 goes to the state. That was left out because we were
18 speaking to the local crowd here and wanted to reflect
19 something that wasn't inflated that also included the
20 state which caused confusion on the time being
21 extended.

22 **COMMISSIONER FIEGEN:** So thank you. So this
23 is the ten-year benefit to Deuel School Harvest, and
24 then is it their first percentage that they get out of
25 this school aid formula from year 11 to 25? Is that

1 in that amount, or is that just the first ten years?

2 **TYLER WILHELM:** It's just the first ten
3 years.

4 **COMMISSIONER FIEGEN:** Okay. Thank you.
5 That's my questions today, but thank you so much
6 for 2019 0 coming out and, Chairman Hanson, turn it
7 over to you.

8 **CHAIRMAN HANSON:** Thank you. And Ladies and
9 Gentlemen, as the Commissioners said, this is going to
10 be a long process and if you wish to participate,
11 there is a methodology for doing that. Just contact
12 the PUC and we'll go through that process. Have a
13 good evening and please travel safe.

14 **(MEETING CONCLUDED AT 7:56 P.M.)**

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1 STATE OF SOUTH DAKOTA)

2 :SS **CERTIFICATE**

3 COUNTY OF CODINGTON)

4 BE IT KNOWN that the foregoing record was
5 stenographically reported by me with backup audio
6 recording, NANCY McCLANAHAN, a court reporter; and
7 that the foregoing 2-90 pages are a true and correct
8 transcript of all the proceedings had upon the taking
9 of said proceeding, all done to the best of my skill
10 and ability.

11 DATED at Watertown, South Dakota, Codington
12 County, on this 13th day of October, 2019.

13

14

15 /s/ Nancy McClanahan

16 Nancy McClanahan
17 Stenographic Court Reporter
18 IA CSR/RPR/RMR

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