

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

**IN THE MATTER OF THE COMPLAINT FILED BY AMBER CHRISTENSON,
LINDA LINDGREN AND TIMOTHY LINDGREN AGAINST
CROWNED RIDGE WIND, LLC
REGARDING PROJECT SOUND LEVEL COMPLIANCE**

Docket No. CE22-001

**TESTIMONY
OF STEFAN MARTINSEN**

August 7, 2023

1 **Q. HAS THIS REBUTTAL TESTIMONY BEEN PREPARED BY YOU OR UNDER**
2 **YOUR DIRECT SUPERVISION?**

3 A. Yes.
4

5 **Q. HAVE YOU PREVIOUSLY APPEARED BEFORE THE COMMISSION?**

6 A. No.
7

8 **Q. PLEASE DESCRIBE THE PURPOSE OF YOUR REBUTTAL TESTIMONY.**

9 A. The purpose of my testimony is to address the testimony of Complainant Amber
10 Christenson.
11

12

13

14 **Q. COMPLAINANT CHRISTENSON (PAGE 4) CLAIMS THAT THE WINTER**
15 **ICING OPERATION MODE (“WIOM”) HAS NOT BEEN “PROVEN OR**
16 **CLAIMED” TO IMPACT THE SOUND OF WIND TURBINES. PLEASE**
17 **COMMENT.**

18

19 A. WIOM is a control option offered by the manufacturer of the wind turbines in operation at
20 Crowned Ridge, General Electric, to reduce the effects of icing on turbine blades which
21 include stall and blade vibration, with an added benefit of reducing noise by adjusting the
22 pitch of the blades.

23

24 **Q. COMPLAINANT CHRISTENSON (PAGES 4 AND 5) QUESTIONS WHETHER**
25 **CROWNED RIDGE HAS SUFFICIENT INFORMATION TO RELY ON WIOM AS**
26 **A MITIGATION MEASURE TO LOWER SOUND LEVELS OF WIND**
27 **TURBINES. PLEASE COMMENT.**

1 A. The WIOM control option is not the only mitigation measure to lower sound levels at
2 Crowned Ridge. All turbines at Crowned Ridge were upgraded with low noise trailing
3 edge blade devices which is also a sound mitigation measure.
4

5 **Q. COMPLAINANT CHRISTENSON (PAGE 5) CLAIMS THAT TURBINE 71 WAS**
6 **SHUT DOWN FOR 18 HOURS AND 8 MINUTES DURING THE SOUND STUDY**
7 **PERIOD, BUT CROWNED RIDGE INDICATED THAT NO MAINTENANCE**
8 **WAS PERFORMED ON TURBINE 71. SHE, THEREFORE, ASSERTS**
9 **CROWNED RIDGE IS PROVIDING CONFLICTING INFORMATION. PLEASE**
10 **COMMENT.**
11

12 A. Crowned Ridge did not manually shutdown turbine 71 for maintenance. Turbine 71
13 automatically tripped offline from a fault its control system detected at 6:09 PM on Friday
14 November 12, 2021. Remote restoration efforts through the night were unsuccessful and
15 a crew was dispatched Saturday morning November 13, 2021 to address the cause of the
16 fault. Turbine 71 was restored to service at 12:23 PM on November 13.
17

18 **Q. THROUGHOUT HER TESTIMONY, COMPLAINANT CHRISTENSON**
19 **ASSERTS THAT WIND TURBINE SHUTDOWNS AND CURTAILMENTS WERE**
20 **INTENTIONALLY IMPLEMENTED TO BENEFIT THE RESULTS OF THE**
21 **CROWNED RIDGE SOUND STUDY. DO YOU AGREE?**
22

23 A. No. At no time did Crowned Ridge intentionally shut down a wind turbine with the intent
24 of improving or impacting the results of the 2021 sound study. Further, all curtailments
25 are automatically implemented by MISO, the independent transmission system operator,
26 and not by Crowned Ridge. The implementation of MISO curtailments is not impacted by
27 whether Crowned Ridge is conducting a sound study, they are implemented pursuant to
28 MISO's business practices. No operational protocols or practices were implemented to
29 influence the results of the 2021 Sound Study.
30
31

1 Q. **DOES THIS CONCLUDE YOUR TESTIMONY?**

2 A. Yes.

STATE OF SOUTH DAKOTA)
) ss
COUNTY OF JERAULD)

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



Stefan Martinsen

REMOTE NOTARIZATION

On August 2, 2023, before me, Abbie Langerock, the undersigned officer, appeared Stefan Martinson with a remote location of Jerauld County, South Dakota, whom I have a personal knowledge of because of my relationship developed while working as a paralegal in this lawsuit, and whom I positively identified as the person whose name is subscribed to the within instrument, appeared before me not in my physical presence but by means of video communication technology, and I observed his execution of the same instrument, which I reasonably confirmed is the same document, for the purposes contained therein and confirm that I affix my seal to the same instrument so executed.

Subscribed and sworn to before me this 2nd day of August, 2023.



Notary Public – State of South Dakota

My Commission Expires: 12/20/23

(SEAL)



Stefan J. Martinsen, PE

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Summary

A leader with a track record for building teams and meeting goals with over twenty years of electric industry experience in increasing roles of responsibility from staff engineering, plant management and renewables in a corporation that was recognized as a Fortune 500 “Most Admired” company for the past 10 years.

Born on Long Island, NY and holds a BS from the US Merchant Marine Academy in marine engineering systems (Kings Point, NY), a six sigma black belt, and a Master’s in Business Administration (MBA) from Rutgers University.

Professional Experience

NextEra Energy Resources

Wind General Manager with responsibility over sites in North Dakota, South Dakota, Minnesota, Montana, and Nebraska. Focused on the safe, clean, and reliable operation and maintenance of the wind fleet and the development of its leaders.

Regional Wind Site Manager with sites in North Dakota, South Dakota and Nebraska.

Plant Manager over the Sayreville Energy Center (Sayreville, NJ) and the Bayswater & Jamaica Bay Peaking Facility (Far Rockaway, NY) from 2018 to 2020.

Production Manager at the Sayreville Energy Center from 2015 to 2018. Manage the operations and maintenance (O&M) of a 330 MW 2x1 Combined cycle power plant in Sayreville, NJ.

Production Manager at the Bayswater & Jamaica Bay Peaking Facility from 2010 to 2015. Manage the operations and maintenance (O&M) for these two 55 MW Pratt & Whitney FT8 peaking plants in Far Rockaway, NY.

Plant Reliability Engineer from 2009 to 2010 for both the 550 MW Rhode Island State Energy Center and the 330 MW Bellingham Energy Center.

Regional Performance Fleet Engineer from 2007 to 2009. Focused on improving the capability and fuel efficiency of the NextEra’s power plants from Maine to Pennsylvania.

Performance Fleet Engineer from 2004 to 2007. Based in corporate office in Juno Beach, FL performed both field and remote testing of power plants for efficiency and generation.

Marine Engineers Beneficial Association (MEBA) District 1

Sailed on US flagged cargo ships as a watch standing engineer for companies such as Matson, OSG and Alaska Tanker Company from 2001 to 2004. Other duties included maintenance and repair of ships equipment, welding, machining, and fabrication.

Florida Power and Light

Field Performance Engineer from 1998 to 2000. In this role performed field testing of power plants. Generated reports on equipment health, plant output, and plant heat rate. Maintained inventory of instrumentation and data acquisition system for field testing.

Qualifications & Education:

Licenses:	Professional Engineer (Mechanical), State of Florida NJ 1 st Class Boiler Operators License (Gold Seal) USCG 2 nd Engineer Steam and Motor - Unlimited HP Certificates of Fitness, FDNY (various)
Undergraduate: Degree:	United States Merchant Marine Academy, Kings Point NY Bachelor of Science, ABET accredited
Graduate: Degree:	Rutgers University Business Administration
Qualifications:	Six Sigma Black Belt (NextEra)