

Final Report Crowned Ridge II Wind Farm Sound Study Codington, Deuel and Grant Counties, SD

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Report Update

EAPC bears no responsibility to update this report for any changes occurring subsequent to the final issuance of this report.

Revision History

Revision No.	Revision Purpose	Date	Revised By
0	Original	3/19/2020	J. Haley
1	Moved CRII-81	3/22/2020	J. Haley

Executive Summary

The scope of this report includes all proposed turbines included in the Crowned Ridge II project that will be permitted through the South Dakota Public Utilities Commission. Locations of area occupied structures and a wind turbine layout (135 turbines, including 4 alternates) using a mixture of wind turbines manufactured by General Electric (GE) were provided to EAPC by Crowned Ridge Wind II, LLC. Locations of the adjacent Crowned Ridge wind farm (138 turbines, including 8 alternates) were supplied to EAPC by Crowned Ridge Wind, LLC. The adjacent Deuel Harvest wind farm consisting of a mixture of GE wind turbines (124 turbines) was also included even though the impacts are minimal due to the long distances from Crowned Ridge Wind II receptors. A computer model was built combining digital elevation data with the information supplied by Crowned Ridge Wind II, LLC to generate sound models for the site. The resulting models were then used to perform sound calculations for the 397 turbines. Cumulative sound pressure levels were calculated, including the effects from all three wind farms, and site-wide realistic sound maps were produced.

The Crowned Ridge II wind farm project was modeled for all counties within the turbine layout and is described in this report as one project. However, for purposes of organization and because of the differences in compliance criteria, the modeling and results of the study are presented individually for each county. The noise ordinances of Codington, Deuel and Grant Counties are not the same. For Codington County the noise limit is 50 dBA at the property boundary of occupied non-participating landowners. For Deuel County the noise limit is 45 dBA at the perimeter of non-participating occupied structures. For Grant County the noise limit is 45 dBA at a distance of 25 feet from the perimeter of non-participating occupied structures and 50 dBA at participating occupied structures.

The scope of this study also includes sound impacts that are not regulated by county ordinances including participating and non-participating occupied structures and participating parcel boundaries in Codington County, and participating occupied structures in Deuel County. The turbine array was arranged so that the sound pressure level 25 ft from the perimeter of all non-participating occupied structures in all three counties would be 45 dBA or less and participating occupied structures would be 50 dBA or less. This is consistent with Grant County's noise ordinance. For all Crowned Ridge and Crowned Ridge II turbines, Low Noise Trailing Edge (LNTE) blades were used.

The model is based on a number of conservative assumptions. It assumes that the wind turbines are always emitting the maximum sound pressure level with an additional 2 dBA added to the wind turbine noise emission profiles. It is also assumed that each wind turbine is always downwind of each receptor and the atmospheric conditions are most favorable for sound transmission. Also, the sound pressure level was calculated at a distance of 50 feet from the perimeter of structures instead of 25 feet. This is also a conservative assumption because the sound pressure levels will be higher at 50 feet than at 25 feet.

Crowned Ridge II Codington County Turbines

Codington County's current Ordinance #68, Section 5.22.03.12.a) notes that the applicable sound limit is 50 dBA at an occupied non-participating property line, which is what has been evaluated in this report for Codington County. Codington County does not have a specific ordinance for sound pressure levels at a participating property boundary; although not required by the county, the sound pressure levels at participating property boundaries and occupied structures within 2 kilometers of a wind turbine were also evaluated. There is also no ordinance for sound pressure levels at any participating or non-participating occupied structures.

Within the Crowned Ridge II project, for Codington County, an evaluation of the sound impacts at 115 occupied land parcel boundaries (28 participating and 87 non-participating) within Codington County was performed. The 115 land parcel boundaries were modeled using an area-type sound sensor so that the highest sound pressure level at the property line could be calculated.

In Codington County, the maximum sound pressure level at a non-participating property boundary is 49.7 dBA, therefore, the project, as modeled, is in compliance with Codington County's allowable sound pressure levels as described in Section 5.03, paragraph 12.a) of the Codington County Zoning Ordinance #68, which is 50 dBA. The maximum sound pressure level at a participating property boundary is 52.6 dBA.

There are 152 occupied structures (39 participating and 113 non-participating) in Codington County within 2 kilometers of a wind turbine, which were modeled using a point-type sound sensor so that the highest sound pressure level at the perimeter of the structures could be calculated. In Codington County, the maximum sound pressure level at the perimeter of a non-participating occupied structure was 44.9 dBA. The maximum sound pressure level at a participating occupied structure was 45.5 dBA.

Crowned Ridge II Deuel County Turbines

Deuel County's current Ordinance B2004-01-23B, Section 1215.03 paragraph 13 a.) sets the limit at 45 dBA at the perimeter of non-participating existing residences.

There are 104 occupied structures (21 participating and 83 non-participating) in Deuel County within 2 kilometers of a wind turbine, which were modeled using a point-type sound sensor so that the highest sound pressure level at the perimeter of the structures could be calculated. In Deuel County, the maximum sound pressure level at the perimeter of a nonparticipating occupied structure was 44.4 dBA, therefore, the project as modeled, is in compliance with Deuel County's allowable sound pressure levels as described in the current Deuel County Ordinance, which is 45 dBA. The maximum sound pressure level at a participating occupied structure was 45.8 dBA.

Crowned Ridge II Grant County Turbines

Grant County's current Ordinance 2016-01C, Section 1211.04, paragraph 14 of the current Grant County Zoning Ordinance sets the limit at 45 dBA at a distance of 25 feet from the perimeter of non-participating occupied structures and 50 dBA for participating occupied structures.

For Grant County, an evaluation of the noise impacts at 4 (1 participating and 3 nonparticipating) occupied structures within 2 kilometers within Grant County was performed. The 4 occupied structures were modeled using a point-type sound sensor so that the highest sound pressure level 25 feet from the perimeter of the structures could be calculated. In Grant County, the maximum sound pressure level 25 feet from the perimeter of a nonparticipating occupied structure is 38.6 dBA, and 39.6 dBA for a participating occupied structure.

Based upon the results presented above, the project as modeled, is in compliance with Grant County's allowable sound pressure levels as described in the current Grant County Ordinance, which is 45 dBA at a distance of 25 feet from the perimeter of non-participating occupied structures and 50 dBA at a distance of 25 feet from the perimeter of participating occupied structures.

1. Introduction

EAPC was hired to conduct sound studies for the Crowned Ridge II wind farm project located in Codington, Deuel and Grant Counties in northeastern South Dakota. The layout consists of 13 GE 2.1 MW wind turbines with a hub height of 80 meters and 122 GE 2.3 MW wind turbines with a hub height of 90 meters (including 4 alternate turbine locations) for a total of 135 wind turbines. The adjacent Crowned Ridge project consisting of 129 GE 2.3 MW wind turbines with a hub height of 90 meters (including 8 alternate turbine locations) and 9 GE 2.1 MW wind turbines with a hub height of 80 meters for a total of 138 wind turbines was included in the analysis. The adjacent Deuel Harvest wind farm (124 wind turbines) were also included. The array consists of 111 GE 2.82 MW wind turbines with a hub height of 89 meters and 13 GE 2.3 MW wind turbines with an 80 meter hub height. The locations of the proposed Crowned Ridge and Crowned Ridge II wind turbines were supplied by Crowned Ridge Wind II, LLC. The Deuel Harvest wind turbine models and locations were gathered from information from the noise report in the Deuel Harvest permit application submitted to the South Dakota PUC

From the database of existing residences and coordinates supplied by Crowned Ridge Wind II, LLC, 152 occupied structures (39 participating and 113 non-participating) in Codington County and 104 occupied structures (21 participating and 83 non-participating) in Deuel County and 4 occupied structures (1 participating and 3 non-participating) in Grant County, for a total of 260 occupied structures (61 participating and 199 nonparticipating) were found to be within 2 kilometers of a wind turbine and were included in the sound models. Additionally, 115 occupied land parcel boundaries (28 participating and 87 non-participating) were found to be within 2 kilometers of a wind turbine in Codington County, in line with the Codington County ordinance (see below). At a distance of 2 kilometers from a turbine base, the sound pressure level will be less than 35 dBA (considerably less than ordinance limits) so there is no need to include land parcels or structures beyond that distance. Land parcels were not modeled for Deuel or Grant County as they are not a part of the respective county ordinances.

The area of interest for this study is located in Codington, Deuel and Grant Counties near the town of Watertown in northeastern South Dakota. The surrounding terrain has a change in elevation across the project site ranging from 569 to 616 meters (1,867 to 2,021 feet) at the wind turbine base. The region's vegetation is comprised primarily of prairie grass and agricultural land. The project overview map can be found in Appendix A.

2. BACKGROUND AND COUNTY REGULATIONS

To determine if the layout provided would be compliant for the Crowned Ridge II project and in line with each county's regulations, detailed sound scenarios were analyzed using a computer model. The scenarios assumed that the wind turbines were operating at a wind speed that resulted in the loudest sound being emitted, which is conservative because the turbines would not actually be operating at maximum sound output levels at all times.

Codington County's current Ordinance #68, Section 5.22.03, paragraph 12.a) prescribes sound limits for wind turbine projects as follows:

"12.a) Noise level generated by wind energy system shall not exceed 50 dBA, average Aweighted sound pressure including constructive interference level effects at the property line of existing off-site non participating residences, businesses, and buildings owned and/or maintained by a governmental entity."

Therefore, Codington County's only applicable sound limit is 50 dBA at an occupied nonparticipating property line, which is what has been evaluated in this report for Codington County. Although not required by the county, the sound pressure levels at participating property boundaries and participating and non-participating occupied structures (i.e., residences, business, and buildings) within 2 kilometers of a wind turbine were also evaluated.

Deuel County's current ordinance B2004-01-23B, Section 1215.03, paragraph 13 a.) prescribes sound limits for wind turbine projects as follows:

"13. a) Noise level shall not exceed 45 dBA average A-weighted sound pressure at the perimeter of existing residences, for non-participating residences."

Therefore, Deuel County's only applicable sound limit is 45 dBA at the perimeter of existing non-participating residences. For purposes of this report, these residences will be referred to as occupied structures.

Grant County's current Ordinance 2016-01C, Section 1211.04, paragraph 14 prescribes sound limits for wind turbine projects as follows:

"14.) Noise. Noise level shall not exceed 45 dBA, average A-weighted Sound pressure including constructive interference effects measured twenty-five (25) feet from the perimeter of existing off-site non-participating residences, businesses, buildings owned and/or maintained by a governmental entity."

"Noise level shall not exceed 50 dBA, average A-weighted Sound pressure including constructive interference effects measured twenty-five (25) feet from the perimeter of participating residences, businesses, and buildings owned and/or maintained by a governmental entity."

Therefore, Grant County's current applicable sound limit is 45 dBA for all nonparticipating, and 50 dBA for all participating, existing off-site residences, businesses, and buildings owned and/or maintained by a governmental entity. For purposes of this report, these residences, businesses, and buildings will hereafter be referred to as occupied structures.

3. Study Methodology

This sound analysis was performed utilizing windPRO¹, which has the ability to calculate detailed sound maps across an entire area of interest or at site-specific locations using sound sensitive receptors.

The analysis used the ISO 9613-2 "Attenuation of sound during propagation outdoors, Part 2" sound calculation model with "General" ground attenuation and an attenuation factor of 0.5, which represents typical mixed vegetation (i.e., prairie grass, weeds, brush) and crop cover. Realistic sound pressure levels were calculated at 1.5 m AGL at the participating and non-participating existing occupied structures and occupied parcel boundaries (Codington County only). The term "realistic" in this case, means that some amount of ground attenuation is accounted for.

The inputs and assumptions for the windPRO sound calculation include the following:

- Turbine Coordinates
- Turbine Specifications
- Turbine Sound Emission Data
- Sound Receptor Coordinates
- Participation Status
- USGS Digital Elevation Model (DEM) (height contour data)
- Uncertainty Factor
- Meteorological Conditions
- Ground Attenuation

Turbine Coordinates: The location of a wind turbine in relation to a sound receptor is one of the most important factors in determining sound impacts. Sound pressure levels drop as they travel farther from the source of emission. The attenuation comes from atmospheric absorption as well as from absorption by the ground cover between the turbine and the receptor. The sound pressure waves can also be reflected by hard or smooth surfaces such as ice or water. Sound is also absorbed by trees and reflected by structures such as buildings or walls, although these effects (trees and buildings) are ignored in the model.

Turbine Specifications: The Crowned Ridge and Crowned Ridge II GE Wind turbine specifications from the manufacturer were supplied to EAPC by Crowned Ridge Wind II, LLC. Wind turbine specifications included in the model were the power curves, blade types (standard and low noise), hub heights and operational rotational speed of the rotor. For some turbines, Low Noise Trailing Edge (LNTE) blades were used to reduce the sound pressure levels in order to achieve compliance with county regulations by increasing the flexibility in turbine locations to meet setback requirements. The turbine specifications for

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¹ windPRO is the world's leading software tool for designing wind farms, including sound analysis.

the Deuel Harvest wind turbines were obtained from the project's noise report that was submitted with their permit application to the South Dakota PUC. All Deuel Harvest wind turbines have LNTE blades.

Turbine Sound Emission Data: Sound emission data including 1/3rd octave data supplied by the manufacture is used assuming the loudest sound pressure levels are being emitted at the hub height of the turbine. A safety margin of 2 dBA was added to the wind turbine noise emission profiles for the analysis in order to produce more conservative results, meaning that the model will predict higher sound pressure levels.

For the GE 2.1-116, the sound emission specifications for the 2.3-116 were used, which is a conservative assumption since the sound emission levels for the 2.1-116 will likely be lower than for the larger 2.3-116. According to the GE sound documentation provided to EAPC by Crowned Ridge Wind II, LLC, the loudest normal operating sound pressure level emitted from the GE 2.3-116 is 107.5 at 10 m/s and higher at hub height. Since the value is reported at hub height, it is the same value for both 80 meter and 90 meter hub-height turbines.

For the Deuel Harvest GE 2.82-127 with LNTE blades, the loudest normal operating sound pressure level emitted is 108.5 dBA at hub height. For the GE 2.3-116 with LNTE blades, the loudest normal operating sound pressure level is 106 dBA at hub height.

The specifications for the wind turbine models used in this study are included in Table 1 below. The table of Crowned Ridge II wind turbine coordinates is included in Appendix B.

Crowned R	idge, Crowne	d Ridge II and Hub Height (m)	Rotor Dia. (m)	est energy pr Cut-In Wind Speed (m/s)	Cut-Out Wind Speed (m/s)	Max. Sound Press. Level (dBA)	Max. Sound Press. Level LNTE (dBA)
General Electric	GE 2.3	80	116	3	22	107.5	106
General Electric	GE 2.3	90	116	3	22	107.5	106
General Electric	GE 2.1	80	116	3	22	107.5	106
General Electric	GE 2.82	89	127	3	30	=	108.5
General Electric	GE 2.3	80	116	3	22	107.5	106

Table 1: Crowned Ridge II energy project wind turbine specifications.

Sound Receptor Coordinates: As with the wind turbine coordinates, the elevation, and distance of a sound receptor in relation to the wind turbines are the main factors in determining the sound impacts. EAPC was provided with coordinates for all existing residences, and occupied structures found to be located within 2 kilometers of the 135 proposed wind turbine locations by Crowned Ridge Wind II, LLC.

In Grant County, where the point of compliance is 25 feet from the perimeter of the structure, a ring of receptors was modeled 50 feet from the perimeter in order to capture sound levels that would conservatively represent the sound pressure levels 25 feet away from the perimeter.

Receptor Participation Status: A database indicating the participation status of the land parcels and the structures within the wind farm boundary were supplied to EAPC by Crowned Ridge Wind II, LLC.

USGS Digital Elevation Model (DEM) (height contour data): For this study, 3-meter resolution USGS National Elevation Database (NED) DEM's were used to construct 10-foot interval height contour lines for the windPRO sound model. The height contour information is important to the sound calculation since it allows the model to place the wind turbines and the sound receptors at the correct elevations.

Uncertainty Factor: No uncertainty factor was provided by the wind turbine manufacturer. In this situation, it is common practice based on experience and studies to add 2 dBA to the sound pressure levels of each wind turbine. For this analysis, the 2 dBA were added to all wind turbine noise emission profiles.

Meteorological Conditions: A temperature of 10° C (50° F) and a relative humidity of 70% were assumed for the analysis. These conditions represent an atmospheric "worst case" scenario where sound waves will travel farther with less atmospheric absorption. This will lead to more conservative (higher predicted sound levels) results.

All wind turbines are assumed to be operating simultaneously at maximum sound output levels. All turbines are assumed to be downwind of all receptors, which is another conservative (higher predicted sound pressure levels) assumption.

Ground Attenuation: A ground attenuation factor of 0.5 was assumed for this analysis. It represents "mixed ground" consisting of half hard and half soft (porous) ground cover, which is slightly conservative and will result in higher predicted sound levels since the ground cover includes native prairie and agricultural crop land.

No other sources of sound attenuation such as trees, air turbulence or wind shadow effects were assumed in the analysis.

Wind Turbines from Adjacent Projects: The Crowned Ridge II project is adjacent to the Crowned Ridge and Deuel Harvest projects. Because sound impacts are cumulative, there will be impacts from the Crowned Ridge wind farm. Impacts from the adjacent Deuel Harvest wind farm will be miniscule but are included in the model regardless. The Crowned Ridge and Deuel Harvest wind turbine arrays were included in the model to capture the full sound impacts on the receptors, which are included in the current

Crowned Ridge II tabular results. The Dakota Range wind farm, which is adjacent to the Crowned Ridge wind farm, is too far away to have any cumulative impacts on the Crowned Ridge II wind farm and therefore is not included in the study. Crowned Ridge Wind II, LLC is not aware of any other operating energy conversion facilities, existing or under construction, or other major industrial facilities under regulation within or adjacent to the Project Area.

4. RESULTS OF ANALYSIS

Although modeled as one project, the noise ordinances of the three counties are not the same. For Codington County, the noise limit is 50 dBA at the property boundary of occupied non-participating landowners. Codington County does not have a specific ordinance for sound pressure levels at a participating property boundary. There is also no ordinance for sound pressure levels at any participating or non-participating occupied structures. Although not required by the county, the sound pressure levels at participating property boundaries and occupied structures within 2 kilometers of a wind turbine were also evaluated.

For Deuel County, the noise limit is 45 dBA at the perimeter of non-participating occupied structures.

For Grant County, the noise limit is 45 dBA at a distance of 25 feet from the perimeter of non-participating occupied structures and 50 dBA at participating occupied structures. Because of the differences in compliance criteria, the results of the study are presented individually for each county.

Crowned Ridge II Codington County Turbines

For the Crowned Ridge II Codington County turbines, the sound study indicates that the highest sound pressure level at a non-participating property boundary is 49.7 dBA. Therefore, the project would be in compliance with Codington County's allowable sound pressure levels as described in Section 5.22.03 paragraph 12.a) of Ordinance #68. Table 2 shows the distribution of sound pressure levels for the project. The maximum sound pressure level at a participating property boundary is 51.4 dBA; however, there is no county ordinance for participating property boundaries. This information is provided for transparency.

Table 2: Codington County property boundary cumulative realistic sound distribution

Realistic Sound (dBA)	Non- Participating Property Boundary	Participating Property Boundary
0 to 25	0	0
25 to 30	0	0
30 to 35	15	1
35 to 40	20	4
40 to 45	31	5
45 to 50	21	8
50+	0	10

Crowned Ridge II Deuel County Turbines

For Deuel County, the sound study indicates that the highest sound pressure level at the perimeter of a non-participating occupied structure is 44.4 dBA. Therefore, the project would be in compliance with Deuel County's allowable sound pressure levels as describes in Section 1215.03, paragraph 13 a.) of the current Deuel County Ordinance B2004-01-23B. Table 3 shows the distribution of sound pressure levels for the project. The maximum sound pressure level at the perimeter of a participating occupied structure is 45.8 dBA; however, there is no county ordinance for participating occupied structures. This information is provided for transparency.

Table 3: Deuel County occupied structure cumulative realistic sound distribution

Realistic Sound (dBA)	Non- Participating Occupied Structures	Participating Occupied Structures
0 to 25	0	0
25 to 30	0	0
30 to 35	7	0
35 to 40	29	6
40 to 45	48	13
45 to 50	0	2
+50	0	0

Crowned Ridge II Grant County Turbines

For Grant County, the sound study indicates that the highest sound pressure level at a distance of 25 feet from the perimeter of a non-participating occupied structure is 38.6 dBA. The highest sound pressure level at a distance of 25 feet from the perimeter of a participating occupied structure is 39.6 dBA. Therefore the project would be in compliance with Grant County's allowable sound pressure levels as described in Section 1211.04, paragraph 14 of the current Grant County Zoning Ordinance 2016-01C. Table 4 shows the distribution of sound pressure levels for the project.

Table 4: Grant County occupied structure cumulative realistic sound distribution

Realistic Sound (dBA)	Non- Participating Occupied Structures	Participating Occupied Structures
0 to 25	0	0
25 to 30	2	0
30 to 35	0	0
35 to 40	1	1
40 to 45	0	0
45+	0	0

<u>Crowned Ridge II Project Summary</u>

The summary results for the Crowned Ridge II project are shown in Table 5 below. The full table of results from the sound study can be found in Appendix C. Table C-1 lists the results sorted by receptor number and Table C-2 lists the results sorted by sound impacts (dBA) from highest to lowest. Table C-3 lists the results of the scenario where Grant County's noise ordinance was modeled for all three counties with results at a distance of 25 ft from the perimeter of the structures. The tabular results include the cumulative impacts from Crowned Ridge, Crowned Ridge II and Deuel Harvest wind farms. The maps showing the sound impact iso-lines for the Crowned Ridge II wind farm are in Appendix D. The maps include adjacent Crowned Ridge wind turbines that are within 2 km of an occupied structure within the Crowned Ridge II footprint, as well as Deuel Harvest wind turbines.

Table 5: Summary of cumulative sound pressure level predictions.

3100 Demers Avenue, Grand Forks, ND 58201

		Noise Limit	Maximum Predicted
County	Feature	(dBA)	(dBA)
Codington	Participating Occupied Structures	N/A	45.5
	Non-Participating Occupied Structures	N/A	44.9
	Participating Occupied Parcel Boundary Lines	N/A	51.4
	Non-participating Occupied Parcel Boundary Lines	50	49.7
Deuel	Participating Occupied Structures	N/A	45.8
	Non-Participating Occupied Structures	45	44.4
Grant	Participating Occupied Structures	50	39.6
	Non-Participating Occupied Structures	45	38.6

5. Conclusions

The conservative results of this sound study indicate that the Crowned Ridge II project is in compliance with Codington, Deuel and Grant County ordinances.

For Codington County, of the 115 property boundaries modeled, the highest sound pressure level at a non-participating property boundary is 49.7 dBA and none measured more than 50 dBA. Therefore the Crowned Ridge II wind farm would be in compliance with Codington County Ordinance #68.

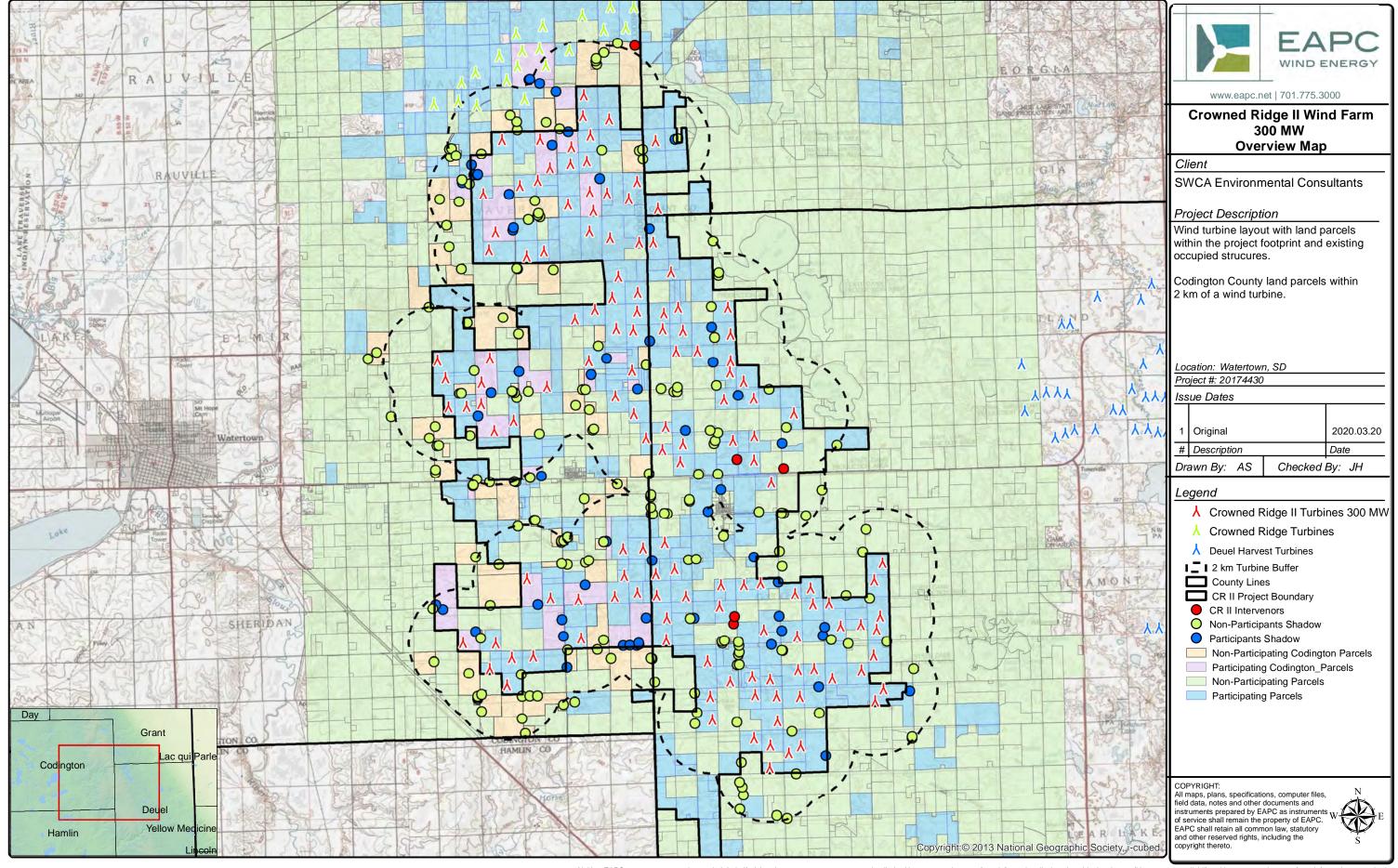
For Deuel County, the sound study indicates that the highest sound pressure level at the perimeter of a non-participating occupied structure is 44.4 dBA. Therefore the project would be in compliance with the current Deuel County Ordinance B2004-01-23B.

For Grant County, the sound study indicates that the highest sound pressure level 25 feet from the perimeter of a non-participating occupied structure is 38.6 dBA. The highest sound pressure level 25 feet from the perimeter of a participating occupied structure is 39.6 dBA. Therefore the project would be in compliance with the current Grant County Ordinance 2016-01C.

The results of this study are inherently conservative due to the fact that the turbines were modeled as though they were always operating at maximum sound emission levels and in all cases, an additional 2 dBA was added to the sound level being emitted by the turbine during the modeling stage and not to the results of the sound modeling. The turbines were also modeled as though they were always downwind of each receptor, and atmospheric conditions were modeled to be most favorable for sound transmission. In addition, the receptors in Grant County were modeled 50 feet from the perimeter of the

structures where the ordinance specifies 25 feet. Noise levels will be higher farther away from the perimeter.

APPENDIX A: CROWNED RIDGE II ENERGY PROJECT SITE OVERVIEW MAP



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APPENDIX B: WIND TURBINE COORDINATES

Crowned Ridge II Wind Farm 300 MW GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14

WTG	Туре	Turbine Model	Easting (m)	Northing (m)	Base Elev. AMSL (m)	Sound Profile
CRII-1	Primary	GE2.3 116RD 90HH r1.madAGKB	671,559	4,962,133	612.0	LNTE
CRII-2	Primary	GE2.3 116RD 90HH r1.madAGKB	672,263	4,962,678	614.9	LNTE
CRII-3	Primary	GE2.3 116RD 90HH r1.madAGKB	672,701	4,962,945	611.2	LNTE
CRII-4	Primary	GE2.3 116RD 90HH r1.madAGKB	671,580	4,962,979	614.7	LNTE
CRII-5	Primary	GE2.3 116RD 90HH r1.madAGKB	670,978	4,963,241	610.6	LNTE
CRII-6	Primary	GE2.3 116RD 90HH r1.madAGKB	671,848	4,963,864	609.0	LNTE
CRII-7	Primary	GE2.3 116RD 90HH r1.madAGKB	669,433	4,963,919	609.0	LNTE
CRII-8	Primary	GE2.3 116RD 90HH r1.madAGKB	675,459	4,964,605	586.7	LNTE
CRII-9	Primary	GE2.3 116RD 90HH r1.madAGKB	672,673	4,964,773	606.0	LNTE
CRII-10	Primary	GE2.3 116RD 90HH r1.madAGKB	671,807	4,964,788	605.1	LNTE
CRII-11	Primary	GE2.3 116RD 90HH r1.madAGKB	671,018	4,964,835	608.3	LNTE
CRII-12	Primary	GE2.3 116RD 90HH r1.madAGKB	675,767	4,965,047	582.5	LNTE
CRII-13	Alternate	GE2.3 116RD 90HH r1.madAGKB	661,844	4,965,186	585.0	LNTE
CRII-14	Primary	GE2.3 116RD 90HH r1.madAGKB	670,096	4,965,331	604.8	LNTE
CRII-15	Primary	GE2.3 116RD 90HH r1.madAGKB	673,873	4,965,445	594.0	LNTE
CRII-16	Primary	GE2.3 116RD 90HH r1.madAGKB	670,913	4,965,509	599.1	LNTE
CRII-17	Primary	GE2.3 116RD 90HH r1.madAGKB	674,945	4,965,753	588.8	LNTE
CRII-18	Primary	GE2.3 116RD 90HH r1.madAGKB	672,601	4,965,770	605.8	LNTE
CRII-19	Primary	GE2.3 116RD 90HH r1.madAGKB	661,198	4,965,805	588.0	LNTE
CRII-20	Primary	GE2.3 116RD 90HH r1.madAGKB	673,203	4,965,803	598.0	LNTE
CRII-21	Primary	GE2.3 116RD 90HH r1.madAGKB	669,253	4,966,080	599.3	LNTE
CRII-22	Primary	GE2.3 116RD 90HH r1.madAGKB	662,014	4,966,215	588.0	LNTE
CRII-23	Primary	GE2.3 116RD 90HH r1.madAGKB	662,811	4,966,264	589.7	LNTE
CRII-24	Primary	GE2.3 116RD 90HH r1.madAGKB	675,403	4,966,303	585.0	LNTE
CRII-25	Primary	GE2.3 116RD 90HH r1.madAGKB	661,425	4,966,745	588.0	LNTE
CRII-26	Primary	GE2.3 116RD 90HH r1.madAGKB	660,209	4,966,765	576.7	LNTE
CRII-27	Primary	GE2.3 116RD 90HH r1.madAGKB	667,732	4,966,874	579.0	LNTE
CRII-28	Primary	GE2.3 116RD 90HH r1.madAGKB	664,581	4,966,932	577.5	LNTE
CRII-29	Primary	GE2.3 116RD 90HH r1.madAGKB	672,573	4,966,992	597.0	LNTE
CRII-30	Primary	GE2.3 116RD 90HH r1.madAGKB	675,513	4,967,261	581.4	LNTE
CRII-31	Primary	GE2.3 116RD 90HH r1.madAGKB	674,175	4,967,380	592.7	LNTE
CRII-32	Primary	GE2.3 116RD 90HH r1.madAGKB	671,344	4,967,239	598.9	LNTE
CRII-33	Primary	GE2.3 116RD 90HH r1.madAGKB	674,929	4,967,436	588.6	LNTE
CRII-34	Primary	GE2.3 116RD 90HH r1.madAGKB	667,754	4,967,680	580.6	LNTE
CRII-35	Primary	GE2.3 116RD 90HH r1.madAGKB	675,641	4,967,746	577.3	LNTE
CRII-36	Primary	GE2.3 116RD 90HH r1.madAGKB	669,703	4,968,108	596.8	LNTE
CRII-37	Primary	GE2.3 116RD 90HH r1.madAGKB	673,159	4,968,199	596.9	LNTE
CRII-38	Primary	GE2.3 116RD 90HH r1.madAGKB	673,748	4,968,230	593.9	LNTE
CRII-39	Primary	GE2.3 116RD 90HH r1.madAGKB	664,482	4,968,373	585.0	LNTE
CRII-40	Primary	GE2.3 116RD 90HH r1.madAGKB	663,447	4,968,418	591.0	LNTE
CRII-41	Primary	GE2.3 116RD 90HH r1.madAGKB	665,827	4,968,475	585.6	LNTE

Crowned Ridge II Wind Farm 300 MW GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 continued

WTG	Туре	Turbine Model	Easting (m)	Northing (m)	Base Elev. AMSL (m)	Sound Profile
CRII-42	Primary	GE2.3 116RD 90HH r1.madAGKB	668,455	4,968,482	595.8	LNTE
CRII-43	Primary	GE2.3 116RD 90HH r1.madAGKB	667,376	4,968,511	586.4	LNTE
CRII-44	Primary	GE2.3 116RD 90HH r1.madAGKB	672,498	4,968,577	600.0	LNTE
CRII-45	Primary	GE2.3 116RD 90HH r1.madAGKB	673,072	4,968,788	597.2	LNTE
CRII-46	Primary	GE2.3 116RD 90HH r1.madAGKB	671,213	4,968,978	600.0	LNTE
CRII-47	Primary	GE2.3 116RD 90HH r1.madAGKB	670,606	4,968,910	597.8	LNTE
CRII-48	Primary	GE2.3 116RD 90HH r1.madAGKB	669,752	4,968,912	594.0	LNTE
CRII-49	Primary	GE2.3 116RD 90HH r1.madAGKB	662,575	4,969,126	594.0	LNTE
CRII-50	Primary	GE2.3 116RD 90HH r1.madAGKB	675,428	4,969,085	577.8	LNTE
CRII-51	Primary	GE2.3 116RD 90HH r1.madAGKB	666,174	4,969,250	597.0	LNTE
CRII-52	Primary	GE2.3 116RD 90HH r1.madAGKB	667,344	4,969,319	598.1	LNTE
CRII-53	Primary	GE2.3 116RD 90HH r1.madAGKB	668,037	4,969,495	597.8	LNTE
CRII-54	Primary	GE2.3 116RD 90HH r1.madAGKB	675,726	4,969,723	570.0	LNTE
CRII-55	Primary	GE2.3 116RD 90HH r1.madAGKB	666,872	4,970,279	606.0	LNTE
CRII-56	Primary	GE2.3 116RD 90HH r1.madAGKB	666,135	4,970,237	593.4	LNTE
CRII-57	Primary	GE2.3 116RD 90HH r1.madAGKB	667,670	4,970,471	608.9	LNTE
CRII-58	Primary	GE2.1 116RD 80HH rev2.mad	671,619	4,972,700	594.0	LNTE
CRII-59	Primary	GE2.3 116RD 90HH r1.madAGKB	668,248	4,973,458	613.5	LNTE
CRII-60	Primary	GE2.3 116RD 90HH r1.madAGKB	670,973	4,973,527	597.0	LNTE
CRII-61	Primary	GE2.3 116RD 90HH r1.madAGKB	667,589	4,973,910	615.0	LNTE
CRII-62	Primary	GE2.3 116RD 90HH r1.madAGKB	670,983	4,974,414	593.9	LNTE
CRII-63	Primary	GE2.3 116RD 90HH r1.madAGKB	668,350	4,974,115	615.7	LNTE
CRII-64	Primary	GE2.3 116RD 90HH r1.madAGKB	666,982	4,974,334	615.0	LNTE
CRII-65	Primary	GE2.3 116RD 90HH r1.madAGKB	661,369	4,974,608	600.0	LNTE
CRII-66	Primary	GE2.3 116RD 90HH r1.madAGKB	667,711	4,974,761	615.0	LNTE
CRII-67	Primary	GE2.3 116RD 90HH r1.madAGKB	662,077	4,974,986	604.1	LNTE
CRII-69	Primary	GE2.3 116RD 90HH r1.madAGKB	666,524	4,975,244	614.7	LNTE
CRII-70	Primary	GE2.3 116RD 90HH r1.madAGKB	672,450	4,975,267	576.9	LNTE
CRII-71	Primary	GE2.3 116RD 90HH r1.madAGKB	659,674	4,975,487	579.6	LNTE
CRII-72	Alternate	GE2.3 116RD 90HH r1.madAGKB	660,346	4,975,509	590.7	LNTE
CRII-73	Primary	GE2.3 116RD 90HH r1.madAGKB	670,963	4,975,812	590.8	LNTE
CRII-74	Primary	GE2.3 116RD 90HH r1.madAGKB	669,864	4,975,768	600.0	LNTE
CRII-75	Primary	GE2.3 116RD 90HH r1.madAGKB	665,849	4,975,895	608.1	LNTE
CRII-76	Primary	GE2.3 116RD 90HH r1.madAGKB	663,309	4,976,260	597.0	LNTE
CRII-77	Alternate	GE2.3 116RD 90HH r1.madAGKB	660,889	4,976,403	594.0	LNTE
CRII-78	Primary	GE2.1 116RD 80HH rev2.mad	670,593	4,976,444	594.0	LNTE
CRII-79	Primary	GE2.3 116RD 90HH r1.madAGKB	659,556	4,976,577	576.6	LNTE
CRII-80	Primary	GE2.1 116RD 80HH rev2.mad	670,089	4,976,781	597.0	LNTE
CRII-81	Primary	GE2.3 116RD 90HH r1.madAGKB	666,468	4,976,852	615.0	LNTE
CRII-82	Primary	GE2.3 116RD 90HH r1.madAGKB	664,868	4,977,195	606.0	LNTE
CRII-83	Primary	GE2.3 116RD 90HH r1.madAGKB	659,267	4,977,221	570.0	LNTE

Crowned Ridge II Wind Farm 300 MW GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 continued

WTG	Туре	Turbine Model	Easting (m)	Northing (m)	Base Elev. AMSL (m)	Sound Profile
CRII-84	Primary	GE2.3 116RD 90HH r1.madAGKB	661,202	4,977,297	585.0	LNTE
CRII-85	Primary	GE2.1 116RD 80HH rev2.mad	670,104	4,977,199	594.4	LNTE
CRII-86	Primary	GE2.1 116RD 80HH rev2.mad	668,086	4,977,549	605.9	LNTE
CRII-87	Primary	GE2.1 116RD 80HH rev2.mad	668,884	4,977,561	594.0	LNTE
CRII-88	Primary	GE2.3 116RD 90HH r1.madAGKB	666,503	4,978,327	612.1	LNTE
CRII-89	Primary	GE2.1 116RD 80HH rev2.mad	667,591	4,978,362	615.0	LNTE
CRII-90	Primary	GE2.1 116RD 80HH rev2.mad	670,109	4,978,176	589.0	LNTE
CRII-91	Primary	GE2.1 116RD 80HH rev2.mad	668,348	4,978,315	600.0	LNTE
CRII-92	Primary	GE2.3 116RD 90HH r1.madAGKB	664,354	4,978,724	594.7	LNTE
CRII-93	Primary	GE2.1 116RD 80HH rev2.mad	665,882	4,978,374	609.0	LNTE
CRII-94	Primary	GE2.3 116RD 90HH r1.madAGKB	667,644	4,978,955	607.9	LNTE
CRII-95	Primary	GE2.3 116RD 90HH r1.madAGKB	666,647	4,979,039	615.0	LNTE
CRII-96	Primary	GE2.3 116RD 90HH r1.madAGKB	665,082	4,979,106	604.6	LNTE
CRII-97	Primary	GE2.3 116RD 90HH r1.madAGKB	668,163	4,979,177	586.4	LNTE
CRII-98	Primary	GE2.1 116RD 80HH rev2.mad	670,003	4,979,175	585.4	LNTE
CRII-99	Primary	GE2.3 116RD 90HH r1.madAGKB	665,723	4,979,545	607.0	LNTE
CRII-100	Primary	GE2.3 116RD 90HH r1.madAGKB	666,675	4,979,716	613.8	LNTE
CRII-101	Primary	GE2.3 116RD 90HH r1.madAGKB	665,960	4,980,327	606.0	LNTE
CRII-102	Primary	GE2.1 116RD 80HH rev2.mad	667,903	4,980,491	600.1	LNTE
CRII-104	Primary	GE2.3 116RD 90HH r1.madAGKB	662,560	4,981,078	588.0	LNTE
CRII-105	Primary	GE2.3 116RD 90HH r1.madAGKB	663,201	4,981,245	594.0	LNTE
CRII-106	Primary	GE2.3 116RD 90HH r1.madAGKB	661,170	4,981,296	586.2	LNTE
CRII-107	Primary	GE2.1 116RD 80HH rev2.mad	666,729	4,981,576	598.4	LNTE
CRII-108	Primary	GE2.3 116RD 90HH r1.madAGKB	667,242	4,981,585	592.4	LNTE
CRII-110	Primary	GE2.3 116RD 90HH r1.madAGKB	665,644	4,981,745	609.0	LNTE
CRII-111	Primary	GE2.3 116RD 90HH r1.madAGKB	661,406	4,981,960	591.0	LNTE
CRII-112	Primary	GE2.3 116RD 90HH r1.madAGKB	664,889	4,982,000	612.6	LNTE
CRII-114	Primary	GE2.3 116RD 90HH r1.madAGKB	665,029	4,982,755	613.5	LNTE
CRII-115	Primary	GE2.3 116RD 90HH r1.madAGKB	667,423	4,982,834	585.7	LNTE
CRII-116	Primary	GE2.3 116RD 90HH r1.madAGKB	664,098	4,982,988	603.0	LNTE
CRII-117	Primary	GE2.3 116RD 90HH r1.madAGKB	666,339	4,983,199	600.6	LNTE
CRII-118	Primary	GE2.3 116RD 90HH r1.madAGKB	665,536	4,983,411	608.1	LNTE
CRII-119	Primary	GE2.3 116RD 90HH r1.madAGKB	664,901	4,983,463	603.4	LNTE
CRII-120	Primary	GE2.3 116RD 90HH r1.madAGKB	662,307	4,983,683	592.9	LNTE
CRII-121	Primary	GE2.3 116RD 90HH r1.madAGKB	666,651	4,983,822	588.7	LNTE
CRII-122	Primary	GE2.3 116RD 90HH r1.madAGKB	662,977	4,983,870	603.9	LNTE
CRII-123	Primary	GE2.3 116RD 90HH r1.madAGKB	663,421	4,984,335	606.6	LNTE
CRII-124	Primary	GE2.3 116RD 90HH r1.madAGKB	664,181	4,984,488	606.0	LNTE
CRII-125	Primary	GE2.3 116RD 90HH r1.madAGKB	664,784	4,984,583	604.2	LNTE
CRII-126	Primary	GE2.3 116RD 90HH r1.madAGKB	664,221	4,985,123	606.0	LNTE
CRII-128	Primary	GE2.3 116RD 90HH r1.madAGKB	667,329	4,985,347	582.0	LNTE

Crowned Ridge II Wind Farm 300 MW GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 continued

WTG	Туре	Turbine Model	Easting (m)	Northing (m)	Base Elev. AMSL (m)	Sound Profile
CRII-129	Primary	GE2.3 116RD 90HH r1.madAGKB	664,922	4,985,551	608.0	LNTE
CRII-130	Primary	GE2.3 116RD 90HH r1.madAGKB	665,620	4,986,146	599.6	LNTE
CRII-132	Primary	GE2.3 116RD 90HH r1.madAGKB	664,683	4,987,036	606.9	LNTE
CRII-133	Primary	GE2.3 116RD 90HH r1.madAGKB	664,650	4,986,268	606.0	LNTE
CRII-134	Primary	GE2.3 116RD 90HH r1.madAGKB	660,955	4,983,386	588.4	LNTE
CRII-Alt2	Primary	GE2.3 116RD 90HH r1.madAGKB	660,882	4,975,600	596.4	LNTE
CRII-Alt3	Primary	GE2.3 116RD 90HH r1.madAGKB	663,058	4,985,405	608.8	LNTE
CRII-Alt4	Primary	GE2.3 116RD 90HH r1.madAGKB	661,648	4,985,388	595.8	LNTE
CRII-Alt5	Alternate	GE2.3 116RD 90HH r1.madAGKB	670,193	4,974,246	600.0	LNTE
CRII-Alt6	Primary	GE2.3 116RD 90HH r1.madAGKB	666,659	4,968,615	588.0	LNTE
CRII-Alt8	Primary	GE2.3 116RD 90HH r1.madAGKB	671,568	4,965,407	602.2	LNTE
CRII-Alt9	Primary	GE2.3 116RD 90HH r1.madAGKB	669,354	4,964,776	603.4	LNTE
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APPENDIX C: TABLE OF SOUND RESULTS

Table C-1: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Receptor ID Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14

Codington County

Receptor ID	Participation	Туре	Easting (m)	Northing (m)		Real Case Sound	
	Status	. , , , ,	, , , , , , , , , , , , , , , , , , ,		(m)	(dB(A))	Turbine (ft)
CR2-C1-NP	Non-P	Boundary	662,584	4,980,838	590.5	48.7	791
CR2-C3-NP	Non-P	Boundary	664,052	4,964,699	555.0	34.2	6,552
CR1-C4-NP	Non-P	Boundary	659,890	4,985,620	605.2	40.1	3,914
CR1-C7-NP	Non-P	Boundary	661,266	4,985,387	591.0	45.1	1,253
CR2-C7-NP	Non-P	Boundary	666,417	4,966,621	582.0	37.8	4,393
CR1-C8-P	Participant	Boundary	661,277	4,984,852	597.0	41.7	2,139
CR1-C9-NP	Non-P	Boundary	665,266	4,985,122	609.0	44.6	1,804
CR2-C10-NP	Non-P	Boundary	664,808	4,966,574	561.0	43.5	1,391
CR1-C10-P	Participant	Boundary	662,871	4,985,402	601.7	50.6	614
CR1-C11-P	Participant	Boundary	664,225	4,984,910	608.6	50.8	699
CR1-C12-NP	Non-P	Boundary	662,296	4,986,504	605.2	44.8	1,447
CR1-C13-NP	Non-P	Boundary	664,419	4,986,258	615.0	49.4	758
CR1-C15-NP	Non-P	Boundary	663,047	4,985,700	612.9	47.3	968
CR2-C16-NP	Non-P	Boundary	664,794	4,966,949	569.9	49.4	699
CR1-C16-NP	Non-P	Boundary	661,642	4,985,677	597.0	47.3	948
CR1-C18-P	Participant	Boundary	664,394	4,987,007	610.2	47.6	955
CR1-C20-P	Participant	Boundary	663,107	4,987,598	605.1	44.4	1,837
CR2-C22-NP	Non-P	Boundary	661,457	4,972,769	597.2	34.3	6,040
CR2-C23-NP	Non-P	Boundary	664,210	4,969,553	594.0	38.2	3,973
CR2-C24-NP	Non-P	Boundary	662,346	4,969,319	600.0	46.4	981
CR1-C24-NP	Non-P	Boundary	660,262	4,983,876	599.5	39.2	2,785
CR2-C26-P	Participant	Boundary	664,502	4,968,179	580.8	50.1	640
CR2-C27-P	Participant	Boundary	662,571	4,969,314	587.3	50.3	617
CR1-C28-NP	Non-P	Boundary	665,432	4,989,009	583.9	44.6	1,483
CR2-C28-P	Participant	Boundary	659,999	4,968,048	567.1	35.0	4,265
CR2-C29-NP	Non-P	Boundary	662,350	4,969,119	594.7	48.8	738
CR1-C29-NP	Non-P	Boundary	666,496	4,989,001	574.3	42.4	1,952
CR2-C30-NP	Non-P	Boundary	659,189	4,967,871	566.6	33.3	4,938
CR1-C31-NP	Non-P	Boundary	665,639	4,989,013	584.7	44.2	1,637
CR2-C31-P	Participant	Boundary	662,360	4,973,292	606.0	35.4	5,407
CR2-C32-P	Participant	Boundary	660,020	4,967,239	573.0	41.7	1,673
CR2-C33-P	Participant	Boundary	663,452	4,968,137	580.8	47.2	922
CR2-C35-NP	Non-P	Boundary	659,114	4,975,104	555.7	40.2	2,224
CR2-C36-NP	Non-P	Boundary	660,716	4,974,757	580.4	42.6	2,198
CR2-C37-NP	Non-P	Boundary	662,306	4,974,989	606.0	48.8	751
CR2-C38-NP	Non-P	Boundary	660,926	4,966,838	588.0	43.6	1,667
CR2-C39-NP	Non-P	Boundary	664,405	4,966,557	563.0	43.7	1,362
CR2-C40-NP	Non-P	Boundary	659,736	4,975,131	583.9	45.7	1,184
CR2-C41-P	Participant	Boundary	660,695	4,975,584	598.4	51.4	617

Table C-1: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Receptor ID Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Codington County

Receptor ID	Participation Status	Туре	Easting (m)	Northing (m)	Elevation AMSL (m)	Real Case Sound (dB(A))	Distance to Nearest Turbine (ft)
CR2-C42-NP	Non-P	Poundany	665,127	4,975,675	595.6	40.3	2,477
CR2-C42-NP	Non-P	Boundary Boundary	663,896	<u> </u>	596.6	41.0	2,477
				4,976,057		35.4	· · · · · · · · · · · · · · · · · · ·
CR2-C44-NP	Non-P	Boundary	659,186	4,966,434	555.0		3,527
CR2-C45-P	Participant	Boundary	664,019	4,965,873	570.0	37.4	3,934
CR2-C46-NP	Non-P	Boundary	660,215	4,966,435	582.0	45.7	1,083
CR2-C47-NP	Non-P	Boundary	662,128	4,975,739	594.0	40.9	2,477
CR2-C48-NP	Non-P	Boundary	662,312	4,965,660	590.1	43.5	2,067
CR2-C49-NP	Non-P	Boundary	661,080	4,965,005	582.0	40.4	2,575
CR2-C50-P	Participant	Boundary	660,674	4,976,401	574.5	49.7	705
CR2-C51-NP	Non-P	Boundary	662,731	4,964,867	584.2	38.1	3,091
CR2-C52-NP	Non-P	Boundary	662,432	4,964,852	574.4	40.1	2,218
CR2-C53-NP	Non-P	Boundary	661,853	4,964,839	578.5	45.3	1,138
CR2-C54-NP	Non-P	Boundary	662,719	4,976,216	597.0	41.5	1,939
CR2-C55-NP	Non-P	Boundary	660,848	4,964,816	582.0	37.9	3,442
CR2-C57-P	Participant	Boundary	666,460	4,976,511	615.0	46.2	1,119
CR2-C59-P	Participant	Boundary	664,882	4,976,884	603.0	46.5	1,024
CR2-C60-P	Participant	Boundary	663,492	4,976,270	596.4	50.4	604
CR2-C61-NP	Non-P	Boundary	660,672	4,976,784	582.9	44.7	1,440
CR2-C62-NP	Non-P	Boundary	666,705	4,976,925	612.0	48.4	814
CR2-C63-P	Participant	Boundary	666,292	4,977,116	610.5	46.6	1,040
CR2-C64-NP	Non-P	Boundary	661,628	4,964,834	577.9	43.9	1,355
CR2-C65-NP	Non-P	Boundary	665,479	4,978,437	606.1	45.8	1,335
CR2-C66-NP	Non-P	Boundary	661,906	4,964,061	572.8	35.7	3,694
CR2-C67-NP	Non-P	Boundary	660,639	4,978,403	556.5	37.0	4,071
CR2-C68-NP	Non-P	Boundary	662,455	4,963,673	580.3	33.4	5,354
CR1-C68-P	Participant	Boundary	662,024	4,987,612	604.9	50.9	643
CR2-C69-NP	Non-P	Boundary	661,200	4,977,610	571.8	46.2	1,027
CR1-C70-NP	Non-P	Boundary	664,950	4,988,325	596.1	41.4	2,943
CR2-C70-P	Participant	Boundary	665,711	4,970,192	583.7	44.3	1,398
CR1-C71-NP	Non-P	Boundary	664,414	4,988,688	600.0	47.8	912
CR2-C71-NP	Non-P	Boundary	665,511	4,970,237	582.0	41.6	2,047
CR2-C72-NP	Non-P	Boundary	663,882	4,970,343	599.2	36.0	5,860
CR1-C73-NP	Non-P	Boundary	663,740	4,982,989	591.6	46.0	1,175
CR2-C74-NP	Non-P	Boundary	660,737	4,969,659	585.4	33.2	6,279
CR2-C75-NP	Non-P	Boundary	665,533	4,969,027	576.4	43.3	2,051
CR2-C77-NP	Non-P	Boundary	663,124	4,969,545	597.9	40.1	2,264
CR1-C77-P	Participant	Boundary	660,965	4,983,217	584.0	51.1	558
CR2-C78-P	Participant	Boundary	665,321	4,983,408	608.5	50.6	705

Table C-1: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Receptor ID Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Codington County continued

Receptor ID	Participation	Type	Easting (m)	Northing (m)	Elevation AMSL	Real Case Sound	Distance to Nearest
receptor ID	Status	туре	Lasting (in)	Northing (m)	(m)	(dB(A))	Turbine (ft)
CR1-C78-P	Participant	Boundary	660,509	4,983,361	601.0	43.4	1,467
CR2-C79-NP	Non-P	Boundary	666,645	4,984,162	594.4	46.1	1,119
CR1-C79-NP	Non-P	Boundary	660,498	4,983,685	595.6	41.9	1,791
CR1-C80-NP	Non-P	Boundary	659,693	4,983,990	603.4	37.2	4,590
CR2-C80-NP	Non-P	Boundary	665,496	4,971,451	597.0	36.9	4,501
CR1-C81-NP	Non-P	Boundary	660,516	4,983,200	595.7	42.9	1,565
CR1-C84-NP	Non-P	Boundary	659,796	4,982,364	594.1	36.7	5,072
CR1-C85-NP	Non-P	Boundary	659,751	4,981,560	587.4	36.3	4,734
CR1-C86-P	Participant	Boundary	661,252	4,981,612	589.8	47.9	1,070
CR1-C87-NP	Non-P	Boundary	662,846	4,982,473	585.1	40.6	4,193
CR2-C87-NP	Non-P	Boundary	662,990	4,971,076	603.0	34.3	6,542
CR1-C88-NP	Non-P	Boundary	660,240	4,980,801	571.0	37.4	3,458
CR2-C89-NP	Non-P	Boundary	662,304	4,970,980	603.0	33.9	6,145
CR2-C91-NP	Non-P	Boundary	664,274	4,970,519	594.0	36.1	6,174
CR2-C92-NP	Non-P	Boundary	663,878	4,970,491	597.0	35.7	6,191
CR2-C93-NP	Non-P	Boundary	659,946	4,973,545	578.6	35.0	5,827
CR2-C95-NP	Non-P	Boundary	659,720	4,974,150	561.0	36.8	4,390
CR2-C97-NP	Non-P	Boundary	660,676	4,976,379	589.3	49.7	702
CR2-C99-P	Participant	Boundary	660,483	4,972,731	585.6	33.5	6,811
CR2-C100-NP	Non-P	Boundary	660,637	4,972,732	591.0	33.7	6,604
CR2-C101-NP	Non-P	Boundary	660,765	4,972,985	588.8	34.4	5,682
CR2-C102-NP	Non-P	Boundary	661,983	4,976,005	591.0	40.3	3,360
CR2-C104-NP	Non-P	Boundary	662,007	4,972,777	603.0	34.3	6,361
CR2-C107-NP	Non-P	Boundary	662,229	4,977,633	564.3	38.1	3,547
CR2-C109-NP	Non-P	Boundary	662,644	4,972,909	606.0	34.5	6,968
CR2-C112-NP	Non-P	Boundary	666,270	4,972,900	602.5	37.2	5,253
CR2-C115-NP	Non-P	Boundary	662,993	4,980,847	561.8	45.4	1,473
CR2-C116-NP	Non-P	Boundary	664,686	4,976,878	598.0	45.2	1,201
CR2-C118-NP	Non-P	Boundary	665,548	4,975,288	600.2	41.3	2,224
CR2-C123-P	Participant	Boundary	666,399	4,967,425	573.5	39.9	3,924
CR2-C128-P	Participant	Boundary	667,185	4,968,243	579.7	47.3	1,079
CR2-C134-NP	Non-P	Boundary	667,174	4,973,721	610.9	44.9	1,496
CR2-C135-NP	Non-P	Boundary	667,221	4,966,634	591.0	42.0	1,854
CR2-C137-NP	Non-P	Boundary	659,035	4,979,157	564.0	34.2	6,398
CR2-C142-NP	Non-P	Boundary	657,486	4,977,150	549.0	33.5	5,846
CR2-C143-NP	Non-P	Boundary	657,478	4,977,453	561.6	33.3	5,919
CR2-C151-NP	Non-P	Boundary	663,729	4,964,513	554.3	34.1	6,486
CR2-C154-P	Participant	Boundary	660,033	4,966,759	577.9	50.5	577

Table C-1: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Receptor ID Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Codington County

D	Participation	T.	Facility ()	North: ()	Elevation AMSL	Real Case Sound	Distance to Nearest
Receptor ID	Status	Туре	Easting (m)	Northing (m)	(m)	(dB(A))	Turbine (ft)
CR2-C1-NP	Non-P	Structure	662,198	4,980,622	591.0	42.0	1,909
CR2-C2-NP	Non-P	Structure	662,238	4,980,604	590.9	42.1	1,880
CR2-C3-NP	Non-P	Structure	664,345	4,964,571	556.0	33.7	7,497
CR1-C4-NP	Non-P	Structure	659,744	4,984,749	606.0	37.9	5,981
CR1-C5-NP	Non-P	Structure	659,958	4,984,794	604.8	38.2	5,659
CR1-C7-NP	Non-P	Structure	660,893	4,984,861	593.2	40.1	3,022
CR2-C7-NP	Non-P	Structure	665,694	4,966,179	570.0	36.6	4,409
CR1-C8-P	Participant	Structure	660,532	4,984,445	599.4	39.0	3,740
CR1-C9-NP	Non-P	Structure	665,352	4,985,004	609.0	43.8	2,283
CR2-C10-NP	Non-P	Structure	665,189	4,966,505	570.0	39.3	2,438
CR1-C10-P	Participant	Structure	663,510	4,985,195	609.0	45.3	1,634
CR1-C11-P	Participant	Structure	664,111	4,985,679	609.0	44.7	1,860
CR1-C12-NP	Non-P	Structure	662,222	4,985,736	603.0	42.8	2,201
CR1-C12-1-NP	Non-P	Structure	662,199	4,986,047	606.0	42.3	2,818
CR1-C13-NP	Non-P	Structure	663,792	4,985,785	612.0	43.4	2,589
CR1-C15-NP	Non-P	Structure	663,291	4,986,026	615.0	42.8	2,175
CR1-C16-NP	Non-P	Structure	661,960	4,986,288	606.0	42.4	2,648
CR2-C16-NP	Non-P	Structure	665,418	4,966,866	567.0	39.1	2,756
CR1-C18-P	Participant	Structure	663,651	4,987,157	610.4	42.0	3,409
CR1-C20-P	Participant	Structure	663,054	4,987,455	606.0	43.8	2,336
CR1-C21-P	Participant	Structure	660,756	4,984,086	594.0	40.5	2,388
CR2-C22-NP	Non-P	Structure	661,202	4,972,711	597.0	34.0	6,247
CR1-C22-P	Participant	Structure	660,755	4,984,082	594.0	40.6	2,375
CR2-C23-NP	Non-P	Structure	664,069	4,969,661	594.0	37.8	4,439
CR1-C23-P	Participant	Structure	660,619	4,984,078	595.8	40.1	2,523
CR1-C24-NP	Non-P	Structure	660,176	4,983,887	601.1	38.8	3,038
CR2-C24-NP	Non-P	Structure	661,541	4,969,653	600.0	35.6	3,809
CR1-C25-P	Participant	Structure	660,190	4,983,788	602.3	39.1	2,838
CR2-C26-P	Participant	Structure	664,733	4,968,915	591.0	41.9	1,959
CR2-C27-P	Participant	Structure	662,985	4,968,167	582.0	42.4	1,726
CR1-C28-NP	Non-P	Structure	665,429	4,988,598	590.9	41.3	2,831
CR2-C28-P	Participant	Structure	659,208	4,968,159	572.8	32.7	5,630
CR1-C29-NP	Non-P	Structure	666,572	4,988,867	575.9	41.0	2,457
CR2-C29-NP	Non-P	Structure	661,223	4,968,144	595.2	36.4	4,639
CR2-C30-NP	Non-P	Structure	659,100	4,968,023	568.6	32.7	5,502
CR1-C31-NP	Non-P	Structure	665,939	4,988,950	585.4	43.1	2,126
CR2-C31-P	Participant	Structure	663,117	4,972,923	606.0	34.4	7,579
CR2-C32-P	Participant	Structure	659,469	4,967,984	575.2	33.9	4,678

Table C-1: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Receptor ID Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Codington County continued

continued	T =	1		T	I		
Receptor ID	Participation	Type	Easting (m)	Northing (m)		Real Case Sound	Distance to Nearest
•	Status			• ,	(m)	(dB(A))	Turbine (ft)
CR2-C33-P	Participant	Structure	663,878	4,967,612	576.1	40.6	2,999
CR2-C34-P	Participant	Structure	663,934	4,966,991	570.1	40.9	2,133
CR2-C35-NP	Non-P	Structure	658,964	4,974,334	566.8	35.6	4,442
CR2-C36-NP	Non-P	Structure	660,475	4,974,426	578.6	39.9	2,992
CR2-C37-NP	Non-P	Structure	663,037	4,974,496	606.0	37.6	3,537
CR2-C38-NP	Non-P	Structure	660,874	4,966,929	585.5	42.9	1,906
CR2-C39-NP	Non-P	Structure	664,089	4,966,486	566.2	40.4	2,178
CR2-C40-NP	Non-P	Structure	659,189	4,974,765	578.3	38.5	2,854
CR2-C41-P	Participant	Structure	660,770	4,975,147	596.4	45.5	1,532
CR2-C42-NP	Non-P	Structure	664,887	4,975,388	597.0	38.5	3,566
CR2-C43-NP	Non-P	Structure	664,382	4,975,544	597.0	38.0	4,232
CR2-C44-NP	Non-P	Structure	659,145	4,966,062	561.4	34.4	4,183
CR2-C45-P	Participant	Structure	664,058	4,965,862	570.0	37.3	3,907
CR2-C46-NP	Non-P	Structure	660,435	4,965,627	582.0	39.6	2,569
CR2-C47-NP	Non-P	Structure	662,200	4,975,837	594.5	40.4	2,821
CR2-C48-NP	Non-P	Structure	662,370	4,965,588	590.3	42.9	2,172
CR2-C49-NP	Non-P	Structure	660,907	4,964,846	582.0	38.4	3,271
CR2-C50-P	Participant	Structure	661,252	4,976,035	597.0	44.7	1,696
CR2-C51-NP	Non-P	Structure	662,977	4,964,794	584.0	36.7	3,934
CR2-C52-NP	Non-P	Structure	662,688	4,964,792	585.9	38.0	3,054
CR2-C53-NP	Non-P	Structure	662,401	4,964,782	582.0	39.8	2,257
CR2-C54-NP	Non-P	Structure	662,636	4,976,079	597.0	40.7	2,287
CR2-C55-NP	Non-P	Structure	660,765	4,964,777	582.0	37.3	3,658
CR2-C56-NP	Non-P	Structure	660,759	4,964,737	582.0	37.0	3,789
CR2-C57-P	Participant	Structure	666,667	4,976,162	613.8	42.5	2,356
CR2-C58-NP	Non-P	Structure	660,764	4,964,686	582.0	36.8	3,904
CR2-C59-P	Participant	Structure	664,952	4,976,698	601.9	43.0	1,654
CR2-C60-P	Participant	Structure	662,287	4,976,800	594.0	39.0	3,793
CR2-C61-NP	Non-P	Structure	660,630	4,976,840	582.5	44.0	1,667
CR2-C62-NP	Non-P	Structure	666,992	4,977,048	615.0	43.1	1,834
CR2-C63-P	Participant	Structure	665,528	4,977,285	612.0	42.4	2,185
CR2-C64-NP	Non-P	Structure	660,901	4,964,220	582.0	35.0	4,429
CR2-C65-NP	Non-P	Structure	665,217	4,977,746	609.0	42.7	2,139
CR1-C66-NP	Non-P	Structure	659,718	4,985,032	606.0	38.4	5,800
CR2-C66-NP	Non-P	Structure	662,396	4,963,954	582.0	34.6	4,429
CR1-C67-NP	Non-P	Structure	659,789	4,985,057	606.0	38.5	5,791
CR2-C67-NP	Non-P	Structure	660,379	4,978,592	556.1	36.3	5,033
CR2-C68-NP	Non-P	Structure	662,517	4,963,408	579.0	32.5	6,237

Table C-1: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Receptor ID Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Codington County continued

continued	I =	1	1	T	I		
Receptor ID	Participation	Type	Easting (m)	Northing (m)		Real Case Sound	Distance to Nearest
•	Status			• ,	(m)	(dB(A))	Turbine (ft)
CR1-C68-P	Participant	Structure	662,652	4,987,606	609.0	45.1	2,146
CR2-C69-NP	Non-P	Structure	661,701	4,978,792	564.0	36.5	5,171
CR1-C69-P	Participant	Structure	662,685	4,987,619	609.0	45.0	2,185
CR1-C70-NP	Non-P	Structure	665,135	4,988,293	595.9	40.9	3,540
CR2-C70-P	Participant	Structure	665,521	4,970,518	588.9	40.8	2,215
CR1-C71-NP	Non-P	Structure	665,137	4,988,378	595.6	41.1	3,451
CR2-C71-NP	Non-P	Structure	665,411	4,970,503	586.1	40.0	2,529
CR1-C72-NP	Non-P	Structure	665,158	4,988,170	594.6	40.7	3,779
CR2-C72-NP	Non-P	Structure	663,856	4,970,488	597.0	35.7	6,135
CR1-C73-NP	Non-P	Structure	663,066	4,982,530	591.0	40.9	3,704
CR1-C74-NP	Non-P	Structure	662,869	4,983,122	595.7	42.6	2,480
CR2-C74-NP	Non-P	Structure	660,687	4,969,931	586.5	32.9	6,732
CR1-C75-NP	Non-P	Structure	663,010	4,982,658	588.0	41.0	3,730
CR2-C75-NP	Non-P	Structure	664,866	4,969,808	583.7	38.5	4,396
CR1-C76-NP	Non-P	Structure	662,981	4,982,580	588.3	40.8	3,901
CR2-C76-NP	Non-P	Structure	664,747	4,969,738	584.8	38.4	4,560
CR2-C77-NP	Non-P	Structure	663,865	4,969,694	597.0	37.6	4,406
CR1-C77-P	Participant	Structure	661,915	4,983,367	591.0	43.6	1,654
CR2-C78-P	Participant	Structure	665,273	4,983,933	609.0	45.2	1,919
CR1-C78-P	Participant	Structure	660,190	4,983,788	602.3	39.1	2,835
CR2-C79-NP	Non-P	Structure	666,869	4,984,663	587.9	41.3	2,703
CR1-C79-NP	Non-P	Structure	660,452	4,983,750	595.9	41.1	2,037
CR1-C80-NP	Non-P	Structure	659,351	4,983,174	604.4	36.1	5,308
CR2-C80-NP	Non-P	Structure	664,705	4,972,092	597.3	35.1	7,684
CR1-C81-NP	Non-P	Structure	660,062	4,983,083	597.0	38.4	3,094
CR1-C84-NP	Non-P	Structure	659,607	4,982,216	594.0	36.1	5,856
CR1-C85-NP	Non-P	Structure	659,706	4,981,419	588.0	36.0	4,819
CR2-C86-NP	Non-P	Structure	662,880	4,971,302	603.0	34.0	7,208
CR1-C86-P	Participant	Structure	662,086	4,982,135	585.0	41.7	2,303
CR1-C87-NP	Non-P	Structure	662,628	4,982,425	585.4	40.5	4,258
CR2-C87-NP	Non-P	Structure	662,841	4,971,294	603.0	34.0	7,165
CR1-C88-NP	Non-P	Structure	660,156	4,980,595	570.9	36.5	4,045
CR2-C89-NP	Non-P	Structure	662,244	4,971,076	603.0	33.8	6,489
CR1-C89-P	Participant	Structure	662,062	4,982,029	584.3	42.1	2,165
CR2-C90-NP	Non-P	Structure	664,088	4,970,672	594.0	35.6	6,863
CR2-C91-NP	Non-P	Structure	663,938	4,970,546	597.0	35.7	6,457
CR2-C92-NP	Non-P	Structure	663,855	4,970,535	597.0	35.6	6,247
CR2-C93-NP	Non-P	Structure	659,203	4,973,158	584.9	32.9	7,795

Table C-1: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Receptor ID Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Codington County continued

continued		ı	ı				
Receptor ID	Participation	Type	Easting (m)	Northing (m)		Real Case Sound	Distance to Nearest
•	Status	- 7,6-5	• • •		(m)	(dB(A))	Turbine (ft)
CR2-C94-NP	Non-P	Structure	659,202	4,973,052	583.9	32.7	8,136
CR2-C95-NP	Non-P	Structure	659,248	4,974,054	567.0	35.3	4,905
CR2-C96-NP	Non-P	Structure	659,316	4,974,063	570.6	35.5	4,816
CR2-C97-NP	Non-P	Structure	660,093	4,976,001	583.8	44.8	1,814
CR2-C98-NP	Non-P	Structure	660,155	4,976,007	582.8	44.9	1,749
CR2-C99-P	Participant	Structure	660,584	4,972,570	591.0	33.3	7,165
CR2-C100-NP	Non-P	Structure	660,592	4,972,602	591.0	33.4	7,057
CR2-C101-NP	Non-P	Structure	660,732	4,972,807	591.0	33.9	6,266
CR2-C102-NP	Non-P	Structure	662,025	4,976,085	594.1	40.1	3,609
CR2-C103-NP	Non-P	Structure	662,046	4,976,067	594.8	40.1	3,547
CR2-C104-NP	Non-P	Structure	662,109	4,972,735	604.0	34.3	6,608
CR2-C105-NP	Non-P	Structure	662,122	4,976,029	595.3	40.0	3,425
CR2-C106-NP	Non-P	Structure	662,165	4,972,711	604.7	34.2	6,749
CR2-C107-NP	Non-P	Structure	662,265	4,978,194	577.7	37.1	4,564
CR2-C109-NP	Non-P	Structure	662,699	4,972,874	606.0	34.4	7,169
CR2-C112-NP	Non-P	Structure	665,928	4,972,630	603.0	36.4	6,575
CR2-C115-NP	Non-P	Structure	663,555	4,980,564	575.2	40.8	2,520
CR2-C116-NP	Non-P	Structure	664,640	4,976,142	591.1	39.4	3,533
CR2-C117-NP	Non-P	Structure	664,742	4,976,142	594.2	39.5	3,481
CR2-C118-NP	Non-P	Structure	665,014	4,974,639	600.0	37.3	4,947
CR2-C119-NP	Non-P	Structure	665,052	4,974,682	600.0	37.5	4,760
CR2-C123-P	Participant	Structure	666,146	4,966,653	579.4	37.6	5,216
CR2-C126-P	Participant	Structure	666,389	4,966,670	585.0	37.9	4,455
CR2-C128-P	Participant	Structure	666,636	4,966,649	589.0	38.4	3,671
CR2-C129-P	Participant	Structure	666,716	4,966,751	591.0	39.0	3,356
CR2-C130-P	Participant	Structure	666,727	4,966,695	591.0	38.9	3,350
CR2-C131-NP	Non-P	Structure	666,732	4,984,987	591.0	41.4	2,287
CR2-C132-NP	Non-P	Structure	666,857	4,985,021	588.2	42.2	1,883
CR2-C133-P	Participant	Structure	666,992	4,967,681	571.2	42.5	2,500
CR2-C134-NP	Non-P	Structure	667,097	4,973,011	613.0	39.6	3,363
CR2-C135-NP	Non-P	Structure	667,172	4,966,196	595.2	38.9	2,884
CR2-C136-NP	Non-P	Structure	667,209	4,966,166	595.4	38.9	2,887
CR2-C137-NP	Non-P	Structure	658,951	4,979,194	568.2	34.0	6,555
CR2-C142-NP	Non-P	Structure	656,697	4,977,269	566.9	31.5	8,432
CR2-C143-NP	Non-P	Structure	657,016	4,977,505	553.6	32.1	7,444
CR2-C151-NP	Non-P	Structure	663,934	4,964,475	556.1	33.8	6,929
CR2-C154-P	Participant	Structure	660,684	4,967,166	588.0	41.5	2,041
CR2-C155-NP	Non-P	Structure	657,554	4,975,128	554.6	32.8	7,054

Table C-1: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Receptor ID Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Deuel County

Receptor ID	Participation	Туре	Easting (m)	Northing (m)	Elevation AMSL	Real Case Sound	Distance to Nearest
Receptor ID	Status	туре	Easting (III)	Northing (III)	(m)	(dB(A))	Turbine (ft)
CR2-D3-NP	Non-P	Structure	672,390	4,963,482	612.0	44.4	2,037
CR2-D5-NP	Non-P	Structure	668,781	4,964,897	603.0	42.1	1,923
CR2-D6-P	Participant	Structure	668,762	4,967,671	591.0	41.8	2,844
CR2-D9-NP	Non-P	Structure	668,597	4,971,999	611.5	37.6	4,921
CR2-D11-NP	Non-P	Structure	669,646	4,974,534	604.4	42.3	2,028
CR2-D12-NP	Non-P	Structure	668,558	4,969,840	604.7	42.4	2,051
CR2-D14-NP	Non-P	Structure	670,351	4,973,543	606.0	42.9	2,041
CR2-D15-NP	Non-P	Structure	674,387	4,968,515	588.0	42.5	2,297
CR2-D16-P	Participant	Structure	671,626	4,966,693	601.7	43.0	2,018
CR2-D17-NP	Non-P	Structure	672,023	4,969,597	597.0	40.0	3,343
CR2-D18-NP	Non-P	Structure	671,540	4,976,154	582.0	41.7	2,201
CR2-D19-NP	Non-P	Structure	668,870	4,964,178	606.0	42.1	2,034
CR2-D20-NP	Non-P	Structure	675,261	4,968,400	579.0	43.0	2,313
CR2-D21-NP	Non-P	Structure	669,517	4,978,053	596.1	43.7	1,985
CR2-D22-NP	Non-P	Structure	668,798	4,963,767	603.1	40.7	2,142
CR2-D23-NP	Non-P	Structure	669,671	4,980,468	573.0	37.6	4,380
CR2-D30-NP	Non-P	Structure	669,549	4,974,233	611.9	42.0	2,113
CR2-D36-NP	Non-P	Structure	669,812	4,966,746	591.0	40.8	2,854
CR2-D37-NP	Non-P	Structure	674,048	4,974,071	573.0	34.3	6,548
CR2-D38-P	Participant	Structure	667,108	4,982,083	597.0	44.9	1,693
CR2-D39-P	Participant	Structure	668,443	4,974,627	614.4	44.1	1,706
CR2-D41-NP	Non-P	Structure	670,437	4,966,409	597.0	41.3	3,340
CR2-D44-NP	Non-P	Structure	670,434	4,965,956	593.8	43.5	2,149
CR2-D45-NP	Non-P	Structure	668,018	4,976,064	611.5	39.9	4,393
CR2-D46-NP	Non-P	Structure	669,797	4,966,804	591.0	40.7	2,972
CR2-D48-NP	Non-P	Structure	668,923	4,972,998	609.0	40.2	2,680
CR2-D49-P	Participant	Structure	672,024	4,974,135	583.2	39.4	3,537
CR2-D50-P	Participant	Structure	672,015	4,967,209	602.8	43.8	1,965
CR2-D51-NP	Non-P	Structure	675,005	4,970,131	577.8	39.4	2,717
CR2-D52-NP	Non-P	Structure	667,172	4,971,776	606.0	38.1	4,583
CR2-D53-P	Participant	Structure	670,392	4,975,925	592.8	45.8	1,808
CR2-D54-NP	Non-P	Structure	672,012	4,966,477	600.0	42.9	2,500
CR2-D56-P	Participant	Structure	667,119	4,977,925	612.0	44.3	2,110
CR2-D62-NP	Non-P	Structure	669,355	4,974,624	609.0	41.0	3,015
CR2-D63-NP	Non-P	Structure	670,546	4,961,419	615.0	36.4	4,065
CR2-D64-P	Participant	Structure	669,417	4,978,434	588.0	42.8	2,425
CR2-D65-NP	Non-P	Structure	670,422	4,966,654	597.0	40.8	3,583
CR2-D71-NP	Non-P	Structure	669,402	4,979,216	588.0	42.4	1,975

Table C-1: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Receptor ID Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Deuel County

Receptor ID	Participation	Туре	Easting (m)	Northing (m)	Elevation AMSL	Real Case Sound	Distance to Nearest
•	Status	.,,,,	• • •	9. /	(m)	(dB(A))	Turbine (ft)
CR2-D72-NP	Non-P	Structure	671,925	4,970,149	603.0	38.0	4,495
CR2-D73-NP	Non-P	Structure	672,072	4,971,556	600.0	36.8	4,035
CR2-D74-NP	Non-P	Structure	668,130	4,976,068	609.2	39.9	4,505
CR2-D75-NP	Non-P	Structure	669,473	4,981,625	570.0	36.2	6,355
CR2-D77-NP	Non-P	Structure	672,044	4,966,468	600.0	43.0	2,444
CR2-D79-NP	Non-P	Structure	672,172	4,974,737	585.0	41.5	1,962
CR2-D82-NP	Non-P	Structure	669,855	4,970,718	603.0	37.3	5,935
CR2-D83-NP	Non-P	Structure	675,891	4,966,810	579.0	43.7	1,929
CR2-D84-NP	Non-P	Structure	667,159	4,972,169	598.2	37.7	5,535
CR2-D85-NP	Non-P	Structure	669,593	4,976,302	603.0	44.0	1,965
CR2-D86-NP	Non-P	Structure	673,842	4,966,875	597.0	43.3	1,985
CR2-D90-NP	Non-P	Structure	670,516	4,962,327	612.0	39.6	3,360
CR2-D91-NP	Non-P	Structure	667,546	4,976,173	618.0	40.2	4,180
CR2-D92-NP	Non-P	Structure	671,159	4,971,610	597.2	37.3	3,881
CR2-D95-NP	Non-P	Structure	671,994	4,971,562	600.0	37.0	3,930
CR2-D96-NP	Non-P	Structure	672,899	4,971,469	594.0	35.7	5,827
CR2-D97-NP	Non-P	Structure	667,164	4,972,232	600.0	37.7	5,371
CR2-D98-P	Participant	Structure	669,757	4,972,426	606.0	37.6	5,381
CR2-D99-NP	Non-P	Structure	668,148	4,976,230	608.8	40.0	4,331
CR2-D100-NP	Non-P	Structure	668,589	4,972,064	609.9	37.7	4,708
CR2-D101-NP	Non-P	Structure	672,538	4,961,910	612.8	40.7	2,677
CR2-D103-NP	Non-P	Structure	670,588	4,961,119	615.0	35.4	4,606
CR2-D104-NP	Non-P	Structure	670,443	4,961,600	613.8	36.7	4,058
CR2-D105-NP	Non-P	Structure	670,348	4,963,826	611.7	41.9	2,821
CR2-D106-NP	Non-P	Structure	667,315	4,965,297	594.0	36.3	5,351
CR2-D107-NP	Non-P	Structure	670,405	4,966,321	597.0	41.5	3,143
CR2-D108-NP	Non-P	Structure	670,354	4,965,949	594.0	43.4	2,198
CR2-D109-NP	Non-P	Structure	676,885	4,965,806	576.0	37.2	4,432
CR2-D110-NP	Non-P	Structure	670,260	4,967,728	597.0	42.1	2,211
CR2-D111-P	Participant	Structure	671,876	4,969,006	600.0	42.8	2,178
CR2-D112-NP	Non-P	Structure	667,666	4,971,554	604.6	38.7	3,553
CR2-D113-NP	Non-P	Structure	667,774	4,971,544	606.9	38.7	3,537
CR2-D115-P	Participant	Structure	670,974	4,969,938	606.0	39.6	3,245
CR2-D116-NP	Non-P	Structure	673,491	4,972,398	577.8	34.9	6,220
CR2-D119-P	Participant	Structure	673,378	4,965,126	602.6	44.4	1,932
CR2-D120-NP	Non-P	Structure	673,401	4,964,165	609.0	40.6	3,110
CR2-D121-NP	Non-P	Structure	674,461	4,966,734	594.0	43.4	2,316
CR2-D122-P	Participant	Structure	673,601	4,967,341	594.0	44.0	1,886

Table C-1: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Receptor ID Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Deuel County

	Participation	_	- ·· / ›	N .11: / \	Elevation AMSL	Real Case Sound	Distance to Nearest
Receptor ID	Status	Туре	Easting (m)	Northing (m)	(m)	(dB(A))	Turbine (ft)
CR2-D123-P	Participant	Structure	673,527	4,967,015	596.7	42.8	2,441
CR2-D124-P	Participant	Structure	671,911	4,967,745	603.0	42.4	2,493
CR2-D125-NP	Non-P	Structure	670,404	4,966,786	597.0	40.7	3,422
CR2-D126-NP	Non-P	Structure	670,227	4,967,455	593.3	41.2	2,749
CR2-D127-NP	Non-P	Structure	668,841	4,969,858	603.0	40.7	2,894
CR2-D128-NP	Non-P	Structure	668,625	4,967,652	588.0	42.1	2,779
CR2-D129-NP	Non-P	Structure	669,645	4,973,005	606.0	38.8	4,452
CR2-D130-NP	Non-P	Structure	672,080	4,973,212	591.0	40.5	2,260
CR2-D131-P	Participant	Structure	669,471	4,977,139	597.5	44.3	2,087
CR2-D132-NP	Non-P	Structure	669,497	4,974,128	609.0	41.6	2,316
CR2-D133-NP	Non-P	Structure	669,661	4,980,356	576.0	37.9	4,035
CR2-D154-NP	Non-P	Structure	672,205	4,960,261	610.8	33.2	6,496
CR2-D176-P	Participant	Structure	673,641	4,962,583	609.0	38.3	3,304
CR2-D180-NP	Non-P	Structure	671,823	4,960,368	615.0	33.7	5,856
CR2-D189-NP	Non-P	Structure	667,228	4,971,527	606.0	38.8	3,757
CR2-D190-NP	Non-P	Structure	675,131	4,970,954	573.0	35.9	4,485
CR2-D192-P	Participant	Structure	669,283	4,971,621	607.2	37.0	6,499
CR2-D205-NP	Non-P	Structure	670,455	4,960,601	611.6	33.5	6,194
CR2-D206-NP	Non-P	Structure	676,828	4,963,231	588.0	33.8	6,365
CR2-D207-NP	Non-P	Structure	676,828	4,963,280	588.0	33.9	6,250
CR2-D208-P	Participant	Structure	676,741	4,964,971	579.0	38.1	3,205
CR2-D212-P	Participant	Structure	667,211	4,969,816	608.3	45.7	1,686
CR2-D213-NP	Non-P	Structure	667,178	4,971,525	606.0	38.8	3,816
CR2-D220-NP	Non-P	Structure	670,260	4,967,728	597.0	42.1	2,211
CR2-D221-1-NP	Non-P	Structure	670,366	4,973,541	606.0	43.0	1,995
CR2-D221-NP	Non-P	Structure	670,351	4,973,543	606.0	42.9	2,041
CR2-D222-NP	Non-P	Structure	672,081	4,973,212	591.0	40.5	2,264
CR2-D223-NP	Non-P	Structure	670,227	4,967,455	593.3	41.2	2,749
CR2-D224-NP	Non-P	Structure	669,887	4,966,846	590.6	40.5	3,261

Table C-1: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Receptor ID Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Grant County

Receptor ID	Participation	Туре	Easting (m)	Northing (m)		Real Case Sound	
	Status				(m)	(dB(A))	Turbine (ft)
CR2-G8-P	Participant	Structure	668,054	4,985,395	576.0	39.6	2,385
CR2-G9-NP	Non-P	Structure	668,173	4,985,425	570.1	38.6	2,782
CR1-G70-NP	Non-P	Structure	677,465	4,991,043	492.0	29.7	12,651
CR1-G600-NP	Non-P	Structure	674,301	5,005,773	393.0	28.7	13,186
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Table C-2: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Sound Level Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG

Codington County

Receptor ID	Participation	Туре	Easting (m)	Northing (m)	Elevation AMSL	Real Case Sound	Distance to Nearest
•	Status	• •	,	J. ,	(m)	(dB(A))	Turbine (ft)
CR2-C97-NP	Non-P	Boundary	660,676	4,976,379	589.3	49.7	702
CR1-C13-NP	Non-P	Boundary	664,419	4,986,258	615.0	49.4	758
CR2-C16-NP	Non-P	Boundary	664,794	4,966,949	569.9	49.4	699
CR2-C37-NP	Non-P	Boundary	662,306	4,974,989	606.0	48.8	751
CR2-C29-NP	Non-P	Boundary	662,350	4,969,119	594.7	48.8	738
CR2-C1-NP	Non-P	Boundary	662,584	4,980,838	590.5	48.7	791
CR2-C62-NP	Non-P	Boundary	666,705	4,976,925	612.0	48.4	814
CR1-C71-NP	Non-P	Boundary	664,414	4,988,688	600.0	47.8	912
CR1-C15-NP	Non-P	Boundary	663,047	4,985,700	612.9	47.3	968
CR1-C16-NP	Non-P	Boundary	661,642	4,985,677	597.0	47.3	948
CR2-C24-NP	Non-P	Boundary	662,346	4,969,319	600.0	46.4	981
CR2-C69-NP	Non-P	Boundary	661,200	4,977,610	571.8	46.2	1,027
CR2-C79-NP	Non-P	Boundary	666,645	4,984,162	594.4	46.1	1,119
CR1-C73-NP	Non-P	Boundary	663,740	4,982,989	591.6	46.0	1,175
CR2-C65-NP	Non-P	Boundary	665,479	4,978,437	606.1	45.8	1,335
CR2-C40-NP	Non-P	Boundary	659,736	4,975,131	583.9	45.7	1,184
CR2-C46-NP	Non-P	Boundary	660,215	4,966,435	582.0	45.7	1,083
CR2-C115-NP	Non-P	Boundary	662,993	4,980,847	561.8	45.4	1,473
CR2-C53-NP	Non-P	Boundary	661,853	4,964,839	578.5	45.3	1,138
CR2-C116-NP	Non-P	Boundary	664,686	4,976,878	598.0	45.2	1,201
CR1-C7-NP	Non-P	Boundary	661,266	4,985,387	591.0	45.1	1,253
CR2-C134-NP	Non-P	Boundary	667,174	4,973,721	610.9	44.9	1,496
CR1-C12-NP	Non-P	Boundary	662,296	4,986,504	605.2	44.8	1,447
CR2-C61-NP	Non-P	Boundary	660,672	4,976,784	582.9	44.7	1,440
CR1-C28-NP	Non-P	Boundary	665,432	4,989,009	583.9	44.6	1,483
CR1-C9-NP	Non-P	Boundary	665,266	4,985,122	609.0	44.6	1,804
CR1-C31-NP	Non-P	Boundary	665,639	4,989,013	584.7	44.2	1,637
CR2-C64-NP	Non-P	Boundary	661,628	4,964,834	577.9	43.9	1,355
CR2-C39-NP	Non-P	Boundary	664,405	4,966,557	563.0	43.7	1,362
CR2-C38-NP	Non-P	Boundary	660,926	4,966,838	588.0	43.6	1,667
CR2-C10-NP	Non-P	Boundary	664,808	4,966,574	561.0	43.5	1,391
CR2-C48-NP	Non-P	Boundary	662,312	4,965,660	590.1	43.5	2,067
CR2-C75-NP	Non-P	Boundary	665,533	4,969,027	576.4	43.3	2,051
CR1-C81-NP	Non-P	Boundary	660,516	4,983,200	595.7	42.9	1,565
CR2-C36-NP	Non-P	Boundary	660,716	4,974,757	580.4	42.6	2,198
CR1-C29-NP	Non-P	Boundary	666,496	4,989,001	574.3	42.4	1,952
CR2-C135-NP	Non-P	Boundary	667,221	4,966,634	591.0	42.0	1,854
CR1-C79-NP	Non-P	Boundary	660,498	4,983,685	595.6	41.9	1,791
CR2-C71-NP	Non-P	Boundary	665,511	4,970,237	582.0	41.6	2,047

Table C-2: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Sound Level Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Codington County

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Receptor ID	Participation	Type	Easting (m)	Northing (m)	Elevation AMSL	Real Case Sound	Distance to Nearest
receptor ID	Status	туре	Lasting (m)	NOT LITTING (M)	(m)	(dB(A))	Turbine (ft)
CR2-C54-NP	Non-P	Boundary	662,719	4,976,216	597.0	41.5	1,939
CR1-C70-NP	Non-P	Boundary	664,950	4,988,325	596.1	41.4	2,943
CR2-C118-NP	Non-P	Boundary	665,548	4,975,288	600.2	41.3	2,224
CR2-C43-NP	Non-P	Boundary	663,896	4,976,057	596.6	41.0	2,037
CR2-C47-NP	Non-P	Boundary	662,128	4,975,739	594.0	40.9	2,477
CR1-C87-NP	Non-P	Boundary	662,846	4,982,473	585.1	40.6	4,193
CR2-C49-NP	Non-P	Boundary	661,080	4,965,005	582.0	40.4	2,575
CR2-C42-NP	Non-P	Boundary	665,127	4,975,675	595.6	40.3	2,477
CR2-C102-NP	Non-P	Boundary	661,983	4,976,005	591.0	40.3	3,360
CR2-C35-NP	Non-P	Boundary	659,114	4,975,104	555.7	40.2	2,224
CR1-C4-NP	Non-P	Boundary	659,890	4,985,620	605.2	40.1	3,914
CR2-C77-NP	Non-P	Boundary	663,124	4,969,545	597.9	40.1	2,264
CR2-C52-NP	Non-P	Boundary	662,432	4,964,852	574.4	40.1	2,218
CR1-C24-NP	Non-P	Boundary	660,262	4,983,876	599.5	39.2	2,785
CR2-C23-NP	Non-P	Boundary	664,210	4,969,553	594.0	38.2	3,973
CR2-C107-NP	Non-P	Boundary	662,229	4,977,633	564.3	38.1	3,547
CR2-C51-NP	Non-P	Boundary	662,731	4,964,867	584.2	38.1	3,091
CR2-C55-NP	Non-P	Boundary	660,848	4,964,816	582.0	37.9	3,442
CR2-C7-NP	Non-P	Boundary	666,417	4,966,621	582.0	37.8	4,393
CR1-C88-NP	Non-P	Boundary	660,240	4,980,801	571.0	37.4	3,458
CR1-C80-NP	Non-P	Boundary	659,693	4,983,990	603.4	37.2	4,590
CR2-C112-NP	Non-P	Boundary	666,270	4,972,900	602.5	37.2	5,253
CR2-C67-NP	Non-P	Boundary	660,639	4,978,403	556.5	37.0	4,071
CR2-C80-NP	Non-P	Boundary	665,496	4,971,451	597.0	36.9	4,501
CR2-C95-NP	Non-P	Boundary	659,720	4,974,150	561.0	36.8	4,390
CR1-C84-NP	Non-P	Boundary	659,796	4,982,364	594.1	36.7	5,072
CR1-C85-NP	Non-P	Boundary	659,751	4,981,560	587.4	36.3	4,734
CR2-C91-NP	Non-P	Boundary	664,274	4,970,519	594.0	36.1	6,174
CR2-C72-NP	Non-P	Boundary	663,882	4,970,343	599.2	36.0	5,860
CR2-C92-NP	Non-P	Boundary	663,878	4,970,491	597.0	35.7	6,191
CR2-C66-NP	Non-P	Boundary	661,906	4,964,061	572.8	35.7	3,694
CR2-C44-NP	Non-P	Boundary	659,186	4,966,434	555.0	35.4	3,527
CR2-C93-NP	Non-P	Boundary	659,946	4,973,545	578.6	35.0	5,827
CR2-C109-NP	Non-P	Boundary	662,644	4,972,909	606.0	34.5	6,968
CR2-C101-NP	Non-P	Boundary	660,765	4,972,985	588.8	34.4	5,682
CR2-C22-NP	Non-P	Boundary	661,457	4,972,769	597.2	34.3	6,040
CR2-C104-NP	Non-P	Boundary	662,007	4,972,777	603.0	34.3	6,361
CR2-C87-NP	Non-P	Boundary	662,990	4,971,076	603.0	34.3	6,542

Table C-2: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Sound Level Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Codington County

Receptor ID	Participation	Туре	Easting (m)	Northing (m)	Elevation AMSL	Real Case Sound	Distance to Nearest
Receptor ID	Status	туре	Easting (III)	Northing (III)	(m)	(dB(A))	Turbine (ft)
CR2-C3-NP	Non-P	Boundary	664,052	4,964,699	555.0	34.2	6,552
CR2-C137-NP	Non-P	Boundary	659,035	4,979,157	564.0	34.2	6,398
CR2-C151-NP	Non-P	Boundary	663,729	4,964,513	554.3	34.1	6,486
CR2-C89-NP	Non-P	Boundary	662,304	4,970,980	603.0	33.9	6,145
CR2-C100-NP	Non-P	Boundary	660,637	4,972,732	591.0	33.7	6,604
CR2-C142-NP	Non-P	Boundary	657,486	4,977,150	549.0	33.5	5,846
CR2-C68-NP	Non-P	Boundary	662,455	4,963,673	580.3	33.4	5,354
CR2-C30-NP	Non-P	Boundary	659,189	4,967,871	566.6	33.3	4,938
CR2-C143-NP	Non-P	Boundary	657,478	4,977,453	561.6	33.3	5,919
CR2-C74-NP	Non-P	Boundary	660,737	4,969,659	585.4	33.2	6,279
CR2-C41-P	Participant	Boundary	660,695	4,975,584	598.4	51.4	617
CR1-C77-P	Participant	Boundary	660,965	4,983,217	584.0	51.1	558
CR1-C68-P	Participant	Boundary	662,024	4,987,612	604.9	50.9	643
CR1-C11-P	Participant	Boundary	664,225	4,984,910	608.6	50.8	699
CR1-C10-P	Participant	Boundary	662,871	4,985,402	601.7	50.6	614
CR2-C78-P	Participant	Boundary	665,321	4,983,408	608.5	50.6	705
CR2-C154-P	Participant	Boundary	660,033	4,966,759	577.9	50.5	577
CR2-C60-P	Participant	Boundary	663,492	4,976,270	596.4	50.4	604
CR2-C27-P	Participant	Boundary	662,571	4,969,314	587.3	50.3	617
CR2-C26-P	Participant	Boundary	664,502	4,968,179	580.8	50.1	640
CR2-C50-P	Participant	Boundary	660,674	4,976,401	574.5	49.7	705
CR1-C86-P	Participant	Boundary	661,252	4,981,612	589.8	47.9	1,070
CR1-C18-P	Participant	Boundary	664,394	4,987,007	610.2	47.6	955
CR2-C128-P	Participant	Boundary	667,185	4,968,243	579.7	47.3	1,079
CR2-C33-P	Participant	Boundary	663,452	4,968,137	580.8	47.2	922
CR2-C63-P	Participant	Boundary	666,292	4,977,116	610.5	46.6	1,040
CR2-C59-P	Participant	Boundary	664,882	4,976,884	603.0	46.5	1,024
CR2-C57-P	Participant	Boundary	666,460	4,976,511	615.0	46.2	1,119
CR1-C20-P	Participant	Boundary	663,107	4,987,598	605.1	44.4	1,837
CR2-C70-P	Participant	Boundary	665,711	4,970,192	583.7	44.3	1,398
CR1-C78-P	Participant	Boundary	660,509	4,983,361	601.0	43.4	1,467
CR1-C8-P	Participant	Boundary	661,277	4,984,852	597.0	41.7	2,139
CR2-C32-P	Participant	Boundary	660,020	4,967,239	573.0	41.7	1,673
CR2-C123-P	Participant	Boundary	666,399	4,967,425	573.5	39.9	3,924
CR2-C45-P	Participant	Boundary	664,019	4,965,873	570.0	37.4	3,934
CR2-C31-P	Participant	Boundary	662,360	4,973,292	606.0	35.4	5,407
CR2-C28-P	Participant	Boundary	659,999	4,968,048	567.1	35.0	4,265
CR2-C99-P	Participant	Boundary	660,483	4,972,731	585.6	33.5	6,811

Table C-2: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Sound Level Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Codington County

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D ID	Participation	Ŧ	Faction (m)	No othic or (see)	Elevation AMSL	Real Case Sound	Distance to Nearest
Receptor ID	Status	Туре	Easting (m)	Northing (m)	(m)	(dB(A))	Turbine (ft)
CR2-C98-NP	Non-P	Structure	660,155	4,976,007	582.8	44.9	1,749
CR2-C97-NP	Non-P	Structure	660,093	4,976,001	583.8	44.8	1,814
CR2-C61-NP	Non-P	Structure	660,630	4,976,840	582.5	44.0	1,667
CR1-C9-NP	Non-P	Structure	665,352	4,985,004	609.0	43.8	2,283
CR1-C13-NP	Non-P	Structure	663,792	4,985,785	612.0	43.4	2,589
CR1-C31-NP	Non-P	Structure	665,939	4,988,950	585.4	43.1	2,126
CR2-C62-NP	Non-P	Structure	666,992	4,977,048	615.0	43.1	1,834
CR2-C38-NP	Non-P	Structure	660,874	4,966,929	585.5	42.9	1,906
CR2-C48-NP	Non-P	Structure	662,370	4,965,588	590.3	42.9	2,172
CR1-C12-NP	Non-P	Structure	662,222	4,985,736	603.0	42.8	2,201
CR1-C15-NP	Non-P	Structure	663,291	4,986,026	615.0	42.8	2,175
CR2-C65-NP	Non-P	Structure	665,217	4,977,746	609.0	42.7	2,139
CR1-C74-NP	Non-P	Structure	662,869	4,983,122	595.7	42.6	2,480
CR1-C16-NP	Non-P	Structure	661,960	4,986,288	606.0	42.4	2,648
CR1-C12-1-NP	Non-P	Structure	662,199	4,986,047	606.0	42.3	2,818
CR2-C132-NP	Non-P	Structure	666,857	4,985,021	588.2	42.2	1,883
CR2-C2-NP	Non-P	Structure	662,238	4,980,604	590.9	42.1	1,880
CR2-C1-NP	Non-P	Structure	662,198	4,980,622	591.0	42.0	1,909
CR2-C131-NP	Non-P	Structure	666,732	4,984,987	591.0	41.4	2,287
CR1-C28-NP	Non-P	Structure	665,429	4,988,598	590.9	41.3	2,831
CR2-C79-NP	Non-P	Structure	666,869	4,984,663	587.9	41.3	2,703
CR1-C71-NP	Non-P	Structure	665,137	4,988,378	595.6	41.1	3,451
CR1-C79-NP	Non-P	Structure	660,452	4,983,750	595.9	41.1	2,037
CR1-C29-NP	Non-P	Structure	666,572	4,988,867	575.9	41.0	2,457
CR1-C75-NP	Non-P	Structure	663,010	4,982,658	588.0	41.0	3,730
CR1-C70-NP	Non-P	Structure	665,135	4,988,293	595.9	40.9	3,540
CR1-C73-NP	Non-P	Structure	663,066	4,982,530	591.0	40.9	3,704
CR1-C76-NP	Non-P	Structure	662,981	4,982,580	588.3	40.8	3,901
CR2-C115-NP	Non-P	Structure	663,555	4,980,564	575.2	40.8	2,520
CR1-C72-NP	Non-P	Structure	665,158	4,988,170	594.6	40.7	3,779
CR2-C54-NP	Non-P	Structure	662,636	4,976,079	597.0	40.7	2,287
CR1-C87-NP	Non-P	Structure	662,628	4,982,425	585.4	40.5	4,258
CR2-C39-NP	Non-P	Structure	664,089	4,966,486	566.2	40.4	2,178
CR2-C47-NP	Non-P	Structure	662,200	4,975,837	594.5	40.4	2,821
CR1-C7-NP	Non-P	Structure	660,893	4,984,861	593.2	40.1	3,022
CR2-C102-NP	Non-P	Structure	662,025	4,976,085	594.1	40.1	3,609
CR2-C103-NP	Non-P	Structure	662,046	4,976,067	594.8	40.1	3,547
CR2-C105-NP	Non-P	Structure	662,122	4,976,029	595.3	40.0	3,425

Table C-2: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Sound Level Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Codington County

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December ID	Participation	Time	Footing (m)	Nouthing (m)	Elevation AMSL	Real Case Sound	Distance to Nearest
Receptor ID	Status	Туре	Easting (m)	Northing (m)	(m)	(dB(A))	Turbine (ft)
CR2-C71-NP	Non-P	Structure	665,411	4,970,503	586.1	40.0	2,529
CR2-C36-NP	Non-P	Structure	660,475	4,974,426	578.6	39.9	2,992
CR2-C53-NP	Non-P	Structure	662,401	4,964,782	582.0	39.8	2,257
CR2-C134-NP	Non-P	Structure	667,097	4,973,011	613.0	39.6	3,363
CR2-C46-NP	Non-P	Structure	660,435	4,965,627	582.0	39.6	2,569
CR2-C117-NP	Non-P	Structure	664,742	4,976,142	594.2	39.5	3,481
CR2-C116-NP	Non-P	Structure	664,640	4,976,142	591.1	39.4	3,533
CR2-C10-NP	Non-P	Structure	665,189	4,966,505	570.0	39.3	2,438
CR2-C16-NP	Non-P	Structure	665,418	4,966,866	567.0	39.1	2,756
CR2-C135-NP	Non-P	Structure	667,172	4,966,196	595.2	38.9	2,884
CR2-C136-NP	Non-P	Structure	667,209	4,966,166	595.4	38.9	2,887
CR1-C24-NP	Non-P	Structure	660,176	4,983,887	601.1	38.8	3,038
CR1-C67-NP	Non-P	Structure	659,789	4,985,057	606.0	38.5	5,791
CR2-C40-NP	Non-P	Structure	659,189	4,974,765	578.3	38.5	2,854
CR2-C42-NP	Non-P	Structure	664,887	4,975,388	597.0	38.5	3,566
CR2-C75-NP	Non-P	Structure	664,866	4,969,808	583.7	38.5	4,396
CR1-C66-NP	Non-P	Structure	659,718	4,985,032	606.0	38.4	5,800
CR1-C81-NP	Non-P	Structure	660,062	4,983,083	597.0	38.4	3,094
CR2-C49-NP	Non-P	Structure	660,907	4,964,846	582.0	38.4	3,271
CR2-C76-NP	Non-P	Structure	664,747	4,969,738	584.8	38.4	4,560
CR1-C5-NP	Non-P	Structure	659,958	4,984,794	604.8	38.2	5,659
CR2-C43-NP	Non-P	Structure	664,382	4,975,544	597.0	38.0	4,232
CR2-C52-NP	Non-P	Structure	662,688	4,964,792	585.9	38.0	3,054
CR1-C4-NP	Non-P	Structure	659,744	4,984,749	606.0	37.9	5,981
CR2-C23-NP	Non-P	Structure	664,069	4,969,661	594.0	37.8	4,439
CR2-C37-NP	Non-P	Structure	663,037	4,974,496	606.0	37.6	3,537
CR2-C77-NP	Non-P	Structure	663,865	4,969,694	597.0	37.6	4,406
CR2-C119-NP	Non-P	Structure	665,052	4,974,682	600.0	37.5	4,760
CR2-C118-NP	Non-P	Structure	665,014	4,974,639	600.0	37.3	4,947
CR2-C55-NP	Non-P	Structure	660,765	4,964,777	582.0	37.3	3,658
CR2-C107-NP	Non-P	Structure	662,265	4,978,194	577.7	37.1	4,564
CR2-C56-NP	Non-P	Structure	660,759	4,964,737	582.0	37.0	3,789
CR2-C58-NP	Non-P	Structure	660,764	4,964,686	582.0	36.8	3,904
CR2-C51-NP	Non-P	Structure	662,977	4,964,794	584.0	36.7	3,934
CR2-C7-NP	Non-P	Structure	665,694	4,966,179	570.0	36.6	4,409
CR1-C88-NP	Non-P	Structure	660,156	4,980,595	570.9	36.5	4,045
CR2-C69-NP	Non-P	Structure	661,701	4,978,792	564.0	36.5	5,171
CR2-C112-NP	Non-P	Structure	665,928	4,972,630	603.0	36.4	6,575

Table C-2: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Sound Level Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Codington County

	Participation	_	- ·· ()		Elevation AMSL	Real Case Sound	Distance to Nearest
Receptor ID	Status	Туре	Easting (m)	Northing (m)	(m)	(dB(A))	Turbine (ft)
CR2-C29-NP	Non-P	Structure	661,223	4,968,144	595.2	36.4	4,639
CR2-C67-NP	Non-P	Structure	660,379	4,978,592	556.1	36.3	5,033
CR1-C80-NP	Non-P	Structure	659,351	4,983,174	604.4	36.1	5,308
CR1-C84-NP	Non-P	Structure	659,607	4,982,216	594.0	36.1	5,856
CR1-C85-NP	Non-P	Structure	659,706	4,981,419	588.0	36.0	4,819
CR2-C72-NP	Non-P	Structure	663,856	4,970,488	597.0	35.7	6,135
CR2-C91-NP	Non-P	Structure	663,938	4,970,546	597.0	35.7	6,457
CR2-C24-NP	Non-P	Structure	661,541	4,969,653	600.0	35.6	3,809
CR2-C35-NP	Non-P	Structure	658,964	4,974,334	566.8	35.6	4,442
CR2-C92-NP	Non-P	Structure	663,855	4,970,535	597.0	35.6	6,247
CR2-C90-NP	Non-P	Structure	664,088	4,970,672	594.0	35.6	6,863
CR2-C96-NP	Non-P	Structure	659,316	4,974,063	570.6	35.5	4,816
CR2-C95-NP	Non-P	Structure	659,248	4,974,054	567.0	35.3	4,905
CR2-C80-NP	Non-P	Structure	664,705	4,972,092	597.3	35.1	7,684
CR2-C64-NP	Non-P	Structure	660,901	4,964,220	582.0	35.0	4,429
CR2-C66-NP	Non-P	Structure	662,396	4,963,954	582.0	34.6	4,429
CR2-C109-NP	Non-P	Structure	662,699	4,972,874	606.0	34.4	7,169
CR2-C44-NP	Non-P	Structure	659,145	4,966,062	561.4	34.4	4,183
CR2-C104-NP	Non-P	Structure	662,109	4,972,735	604.0	34.3	6,608
CR2-C106-NP	Non-P	Structure	662,165	4,972,711	604.7	34.2	6,749
CR2-C137-NP	Non-P	Structure	658,951	4,979,194	568.2	34.0	6,555
CR2-C86-NP	Non-P	Structure	662,880	4,971,302	603.0	34.0	7,208
CR2-C87-NP	Non-P	Structure	662,841	4,971,294	603.0	34.0	7,165
CR2-C22-NP	Non-P	Structure	661,202	4,972,711	597.0	34.0	6,247
CR2-C101-NP	Non-P	Structure	660,732	4,972,807	591.0	33.9	6,266
CR2-C151-NP	Non-P	Structure	663,934	4,964,475	556.1	33.8	6,929
CR2-C89-NP	Non-P	Structure	662,244	4,971,076	603.0	33.8	6,489
CR2-C3-NP	Non-P	Structure	664,345	4,964,571	556.0	33.7	7,497
CR2-C100-NP	Non-P	Structure	660,592	4,972,602	591.0	33.4	7,057
CR2-C74-NP	Non-P	Structure	660,687	4,969,931	586.5	32.9	6,732
CR2-C93-NP	Non-P	Structure	659,203	4,973,158	584.9	32.9	7,795
CR2-C155-NP	Non-P	Structure	657,554	4,975,128	554.6	32.8	7,054
CR2-C30-NP	Non-P	Structure	659,100	4,968,023	568.6	32.7	5,502
CR2-C94-NP	Non-P	Structure	659,202	4,973,052	583.9	32.7	8,136
CR2-C68-NP	Non-P	Structure	662,517	4,963,408	579.0	32.5	6,237
CR2-C143-NP	Non-P	Structure	657,016	4,977,505	553.6	32.1	7,444
CR2-C142-NP	Non-P	Structure	656,697	4,977,269	566.9	31.5	8,432
CR2-C41-P	Participant	Structure	660,770	4,975,147	596.4	45.5	1,532

Table C-2: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Sound Level Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Codington County

Receptor ID	Participation	Туре	Easting (m)	Northing (m)	Elevation AMSL	Real Case Sound	Distance to Nearest
Receptor ID	Status	туре	Easting (III)	Northing (III)	(m)	(dB(A))	Turbine (ft)
CR1-C10-P	Participant	Structure	663,510	4,985,195	609.0	45.3	1,634
CR2-C78-P	Participant	Structure	665,273	4,983,933	609.0	45.2	1,919
CR1-C68-P	Participant	Structure	662,652	4,987,606	609.0	45.1	2,146
CR1-C69-P	Participant	Structure	662,685	4,987,619	609.0	45.0	2,185
CR1-C11-P	Participant	Structure	664,111	4,985,679	609.0	44.7	1,860
CR2-C50-P	Participant	Structure	661,252	4,976,035	597.0	44.7	1,696
CR1-C20-P	Participant	Structure	663,054	4,987,455	606.0	43.8	2,336
CR1-C77-P	Participant	Structure	661,915	4,983,367	591.0	43.6	1,654
CR2-C59-P	Participant	Structure	664,952	4,976,698	601.9	43.0	1,654
CR2-C133-P	Participant	Structure	666,992	4,967,681	571.2	42.5	2,500
CR2-C57-P	Participant	Structure	666,667	4,976,162	613.8	42.5	2,356
CR2-C27-P	Participant	Structure	662,985	4,968,167	582.0	42.4	1,726
CR2-C63-P	Participant	Structure	665,528	4,977,285	612.0	42.4	2,185
CR1-C89-P	Participant	Structure	662,062	4,982,029	584.3	42.1	2,165
CR1-C18-P	Participant	Structure	663,651	4,987,157	610.4	42.0	3,409
CR2-C26-P	Participant	Structure	664,733	4,968,915	591.0	41.9	1,959
CR1-C86-P	Participant	Structure	662,086	4,982,135	585.0	41.7	2,303
CR2-C154-P	Participant	Structure	660,684	4,967,166	588.0	41.5	2,041
CR2-C34-P	Participant	Structure	663,934	4,966,991	570.1	40.9	2,133
CR2-C70-P	Participant	Structure	665,521	4,970,518	588.9	40.8	2,215
CR1-C22-P	Participant	Structure	660,755	4,984,082	594.0	40.6	2,375
CR2-C33-P	Participant	Structure	663,878	4,967,612	576.1	40.6	2,999
CR1-C21-P	Participant	Structure	660,756	4,984,086	594.0	40.5	2,388
CR1-C23-P	Participant	Structure	660,619	4,984,078	595.8	40.1	2,523
CR1-C78-P	Participant	Structure	660,190	4,983,788	602.3	39.1	2,835
CR1-C25-P	Participant	Structure	660,190	4,983,788	602.3	39.1	2,838
CR1-C8-P	Participant	Structure	660,532	4,984,445	599.4	39.0	3,740
CR2-C129-P	Participant	Structure	666,716	4,966,751	591.0	39.0	3,356
CR2-C60-P	Participant	Structure	662,287	4,976,800	594.0	39.0	3,793
CR2-C130-P	Participant	Structure	666,727	4,966,695	591.0	38.9	3,350
CR2-C128-P	Participant	Structure	666,636	4,966,649	589.0	38.4	3,671
CR2-C126-P	Participant	Structure	666,389	4,966,670	585.0	37.9	4,455
CR2-C123-P	Participant	Structure	666,146	4,966,653	579.4	37.6	5,216
CR2-C45-P	Participant	Structure	664,058	4,965,862	570.0	37.3	3,907
CR2-C31-P	Participant	Structure	663,117	4,972,923	606.0	34.4	7,579
CR2-C32-P	Participant	Structure	659,469	4,967,984	575.2	33.9	4,678
CR2-C99-P	Participant	Structure	660,584	4,972,570	591.0	33.3	7,165
CR2-C28-P	Participant	Structure	659,208	4,968,159	572.8	32.7	5,630

Table C-2: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Sound Level Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Deuel County

	Participation	_	- ·· / ›	a ()	Elevation AMSL	Real Case Sound	Distance to Nearest
Receptor ID	Status	Туре	Easting (m)	Northing (m)	(m)	(dB(A))	Turbine (ft)
CR2-D3-NP	Non-P	Structure	672,390	4,963,482	612.0	44.4	2,037
CR2-D85-NP	Non-P	Structure	669,593	4,976,302	603.0	44.0	1,965
CR2-D83-NP	Non-P	Structure	675,891	4,966,810	579.0	43.7	1,929
CR2-D21-NP	Non-P	Structure	669,517	4,978,053	596.1	43.7	1,985
CR2-D44-NP	Non-P	Structure	670,434	4,965,956	593.8	43.5	2,149
CR2-D108-NP	Non-P	Structure	670,354	4,965,949	594.0	43.4	2,198
CR2-D121-NP	Non-P	Structure	674,461	4,966,734	594.0	43.4	2,316
CR2-D86-NP	Non-P	Structure	673,842	4,966,875	597.0	43.3	1,985
CR2-D20-NP	Non-P	Structure	675,261	4,968,400	579.0	43.0	2,313
CR2-D77-NP	Non-P	Structure	672,044	4,966,468	600.0	43.0	2,444
CR2-D221-1-NP	Non-P	Structure	670,366	4,973,541	606.0	43.0	1,995
CR2-D54-NP	Non-P	Structure	672,012	4,966,477	600.0	42.9	2,500
CR2-D221-NP	Non-P	Structure	670,351	4,973,543	606.0	42.9	2,041
CR2-D14-NP	Non-P	Structure	670,351	4,973,543	606.0	42.9	2,041
CR2-D15-NP	Non-P	Structure	674,387	4,968,515	588.0	42.5	2,297
CR2-D12-NP	Non-P	Structure	668,558	4,969,840	604.7	42.4	2,051
CR2-D71-NP	Non-P	Structure	669,402	4,979,216	588.0	42.4	1,975
CR2-D11-NP	Non-P	Structure	669,646	4,974,534	604.4	42.3	2,028
CR2-D19-NP	Non-P	Structure	668,870	4,964,178	606.0	42.1	2,034
CR2-D5-NP	Non-P	Structure	668,781	4,964,897	603.0	42.1	1,923
CR2-D128-NP	Non-P	Structure	668,625	4,967,652	588.0	42.1	2,779
CR2-D220-NP	Non-P	Structure	670,260	4,967,728	597.0	42.1	2,211
CR2-D110-NP	Non-P	Structure	670,260	4,967,728	597.0	42.1	2,211
CR2-D30-NP	Non-P	Structure	669,549	4,974,233	611.9	42.0	2,113
CR2-D105-NP	Non-P	Structure	670,348	4,963,826	611.7	41.9	2,821
CR2-D18-NP	Non-P	Structure	671,540	4,976,154	582.0	41.7	2,201
CR2-D132-NP	Non-P	Structure	669,497	4,974,128	609.0	41.6	2,316
CR2-D107-NP	Non-P	Structure	670,405	4,966,321	597.0	41.5	3,143
CR2-D79-NP	Non-P	Structure	672,172	4,974,737	585.0	41.5	1,962
CR2-D41-NP	Non-P	Structure	670,437	4,966,409	597.0	41.3	3,340
CR2-D126-NP	Non-P	Structure	670,227	4,967,455	593.3	41.2	2,749
CR2-D223-NP	Non-P	Structure	670,227	4,967,455	593.3	41.2	2,749
CR2-D62-NP	Non-P	Structure	669,355	4,974,624	609.0	41.0	3,015
CR2-D65-NP	Non-P	Structure	670,422	4,966,654	597.0	40.8	3,583
CR2-D36-NP	Non-P	Structure	669,812	4,966,746	591.0	40.8	2,854
CR2-D101-NP	Non-P	Structure	672,538	4,961,910	612.8	40.7	2,677
CR2-D22-NP	Non-P	Structure	668,798	4,963,767	603.1	40.7	2,142
CR2-D125-NP	Non-P	Structure	670,404	4,966,786	597.0	40.7	3,422

Table C-2: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Sound Level Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Deuel County

Receptor ID	Participation	Tuno	Easting (m)	No white or /we)	Elevation AMSL	Real Case Sound	Distance to Nearest
Receptor ID	Status	Туре	Easting (m)	Northing (m)	(m)	(dB(A))	Turbine (ft)
CR2-D127-NP	Non-P	Structure	668,841	4,969,858	603.0	40.7	2,894
CR2-D46-NP	Non-P	Structure	669,797	4,966,804	591.0	40.7	2,972
CR2-D120-NP	Non-P	Structure	673,401	4,964,165	609.0	40.6	3,110
CR2-D130-NP	Non-P	Structure	672,080	4,973,212	591.0	40.5	2,260
CR2-D222-NP	Non-P	Structure	672,081	4,973,212	591.0	40.5	2,264
CR2-D224-NP	Non-P	Structure	669,887	4,966,846	590.6	40.5	3,261
CR2-D91-NP	Non-P	Structure	667,546	4,976,173	618.0	40.2	4,180
CR2-D48-NP	Non-P	Structure	668,923	4,972,998	609.0	40.2	2,680
CR2-D17-NP	Non-P	Structure	672,023	4,969,597	597.0	40.0	3,343
CR2-D99-NP	Non-P	Structure	668,148	4,976,230	608.8	40.0	4,331
CR2-D45-NP	Non-P	Structure	668,018	4,976,064	611.5	39.9	4,393
CR2-D74-NP	Non-P	Structure	668,130	4,976,068	609.2	39.9	4,505
CR2-D90-NP	Non-P	Structure	670,516	4,962,327	612.0	39.6	3,360
CR2-D51-NP	Non-P	Structure	675,005	4,970,131	577.8	39.4	2,717
CR2-D189-NP	Non-P	Structure	667,228	4,971,527	606.0	38.8	3,757
CR2-D213-NP	Non-P	Structure	667,178	4,971,525	606.0	38.8	3,816
CR2-D129-NP	Non-P	Structure	669,645	4,973,005	606.0	38.8	4,452
CR2-D112-NP	Non-P	Structure	667,666	4,971,554	604.6	38.7	3,553
CR2-D113-NP	Non-P	Structure	667,774	4,971,544	606.9	38.7	3,537
CR2-D52-NP	Non-P	Structure	667,172	4,971,776	606.0	38.1	4,583
CR2-D72-NP	Non-P	Structure	671,925	4,970,149	603.0	38.0	4,495
CR2-D133-NP	Non-P	Structure	669,661	4,980,356	576.0	37.9	4,035
CR2-D84-NP	Non-P	Structure	667,159	4,972,169	598.2	37.7	5,535
CR2-D97-NP	Non-P	Structure	667,164	4,972,232	600.0	37.7	5,371
CR2-D100-NP	Non-P	Structure	668,589	4,972,064	609.9	37.7	4,708
CR2-D9-NP	Non-P	Structure	668,597	4,971,999	611.5	37.6	4,921
CR2-D23-NP	Non-P	Structure	669,671	4,980,468	573.0	37.6	4,380
CR2-D92-NP	Non-P	Structure	671,159	4,971,610	597.2	37.3	3,881
CR2-D82-NP	Non-P	Structure	669,855	4,970,718	603.0	37.3	5,935
CR2-D109-NP	Non-P	Structure	676,885	4,965,806	576.0	37.2	4,432
CR2-D95-NP	Non-P	Structure	671,994	4,971,562	600.0	37.0	3,930
CR2-D73-NP	Non-P	Structure	672,072	4,971,556	600.0	36.8	4,035
CR2-D104-NP	Non-P	Structure	670,443	4,961,600	613.8	36.7	4,058
CR2-D63-NP	Non-P	Structure	670,546	4,961,419	615.0	36.4	4,065
CR2-D106-NP	Non-P	Structure	667,315	4,965,297	594.0	36.3	5,351
CR2-D75-NP	Non-P	Structure	669,473	4,981,625	570.0	36.2	6,355
CR2-D190-NP	Non-P	Structure	675,131	4,970,954	573.0	35.9	4,485
CR2-D96-NP	Non-P	Structure	672,899	4,971,469	594.0	35.7	5,827

Table C-2: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Sound Level Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 **Deuel County**

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Bosontor ID	Participation	Tuno	Easting (m)	Northing (m)	Elevation AMSL	Real Case Sound	Distance to Nearest
Receptor ID	Status	Туре	Easting (m)	Northing (m)	(m)	(dB(A))	Turbine (ft)
CR2-D103-NP	Non-P	Structure	670,588	4,961,119	615.0	35.4	4,606
CR2-D116-NP	Non-P	Structure	673,491	4,972,398	577.8	34.9	6,220
CR2-D37-NP	Non-P	Structure	674,048	4,974,071	573.0	34.3	6,548
CR2-D207-NP	Non-P	Structure	676,828	4,963,280	588.0	33.9	6,250
CR2-D206-NP	Non-P	Structure	676,828	4,963,231	588.0	33.8	6,365
CR2-D180-NP	Non-P	Structure	671,823	4,960,368	615.0	33.7	5,856
CR2-D205-NP	Non-P	Structure	670,455	4,960,601	611.6	33.5	6,194
CR2-D154-NP	Non-P	Structure	672,205	4,960,261	610.8	33.2	6,496
CR2-D53-P	Participant	Structure	670,392	4,975,925	592.8	45.8	1,808
CR2-D212-P	Participant	Structure	667,211	4,969,816	608.3	45.7	1,686
CR2-D38-P	Participant	Structure	667,108	4,982,083	597.0	44.9	1,693
CR2-D119-P	Participant	Structure	673,378	4,965,126	602.6	44.4	1,932
CR2-D131-P	Participant	Structure	669,471	4,977,139	597.5	44.3	2,087
CR2-D56-P	Participant	Structure	667,119	4,977,925	612.0	44.3	2,110
CR2-D39-P	Participant	Structure	668,443	4,974,627	614.4	44.1	1,706
CR2-D122-P	Participant	Structure	673,601	4,967,341	594.0	44.0	1,886
CR2-D50-P	Participant	Structure	672,015	4,967,209	602.8	43.8	1,965
CR2-D16-P	Participant	Structure	671,626	4,966,693	601.7	43.0	2,018
CR2-D111-P	Participant	Structure	671,876	4,969,006	600.0	42.8	2,178
CR2-D123-P	Participant	Structure	673,527	4,967,015	596.7	42.8	2,441
CR2-D64-P	Participant	Structure	669,417	4,978,434	588.0	42.8	2,425
CR2-D124-P	Participant	Structure	671,911	4,967,745	603.0	42.4	2,493
CR2-D6-P	Participant	Structure	668,762	4,967,671	591.0	41.8	2,844
CR2-D115-P	Participant	Structure	670,974	4,969,938	606.0	39.6	3,245
CR2-D49-P	Participant	Structure	672,024	4,974,135	583.2	39.4	3,537
CR2-D176-P	Participant	Structure	673,641	4,962,583	609.0	38.3	3,304
CR2-D208-P	Participant	Structure	676,741	4,964,971	579.0	38.1	3,205
CR2-D98-P	Participant	Structure	669,757	4,972,426	606.0	37.6	5,381
CR2-D192-P	Participant	Structure	669,283	4,971,621	607.2	37.0	6,499
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Table C-2: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Sound Level Realistic case sound results at land parcel boundaries and occupied structures Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Grant County

Receptor ID	Participation	Туре	Easting (m)	Northing (m)	Elevation AMSL	Real Case Sound	Distance to Nearest
	Status				(m)	(dB(A))	Turbine (ft)
CR2-G9-NP	Non-P	Structure	668,173	4,985,425	570.1	38.6	2,782
CR1-G70-NP	Non-P	Structure	677,465	4,991,043	492.0	29.7	12,651
CR1-G600-NP	Non-P	Structure	674,301	5,005,773	393.0	28.7	13,186
CR2-G8-P	Participant	Structure	668,054	4,985,395	576.0	39.6	2,385
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Table C-3: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Sound Level Realistic case sound results 25 ft from occupied structures perimeter Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14

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Daniel III	Participation	F + ! ()	Northing (m)	Elevation AMSL	Real Case Sound	Distance to Nearest
Receptor ID	Status	Easting (m)	Northing (m)	(m)	(dB(A))	Turbine (ft)
CR2-C98-NP	Non-P	662,062	4,982,029	584.3	45.0	1,749
CR2-C97-NP	Non-P	665,528	4,977,285	612.0	44.9	1,814
CR2-C61-NP	Non-P	662,880	4,971,302	603.0	44.1	1,667
CR1-C9-NP	Non-P	665,158	4,988,170	594.6	43.9	2,283
CR1-C31-NP	Non-P	660,630	4,976,840	582.5	43.2	2,126
CR2-C62-NP	Non-P	662,841	4,971,294	603.0	43.2	1,834
CR2-C38-NP	Non-P	660,156	4,980,595	570.9	43.0	1,906
CR2-C48-NP	Non-P	658,964	4,974,334	566.8	43.0	2,172
CR2-C65-NP	Non-P	663,934	4,964,475	556.1	42.8	2,139
CR1-C74-NP	Non-P	661,960	4,986,288	606.0	42.7	2,480
CR2-C132-NP	Non-P	664,887	4,975,388	597.0	42.4	1,883
CR2-C2-NP	Non-P	663,865	4,969,694	597.0	42.3	1,880
CR2-C1-NP	Non-P	664,733	4,968,915	591.0	42.2	1,909
CR2-C131-NP	Non-P	659,189	4,974,765	578.3	41.5	2,287
CR1-C28-NP	Non-P	660,155	4,976,007	582.8	41.4	2,831
CR2-C79-NP	Non-P	663,510	4,985,195	609.0	41.3	2,703
CR1-C79-NP	Non-P	666,732	4,984,987	591.0	41.2	2,037
CR1-C79-NP	Non-P	666,636	4,966,649	589.0	41.2	2,037
CR1-C29-NP	Non-P	660,093	4,976,001	583.8	41.1	2,457
CR1-C71-NP	Non-P	663,291	4,986,026	615.0	41.1	3,451
CR1-C75-NP	Non-P	662,199	4,986,047	606.0	41.0	3,730
CR1-C70-NP	Non-P	662,222	4,985,736	603.0	40.9	3,540
CR1-C73-NP	Non-P	662,869	4,983,122	595.7	40.9	3,704
CR2-C115-NP	Non-P	667,097	4,973,011	613.0	40.9	2,520
CR1-C76-NP	Non-P	666,857	4,985,021	588.2	40.8	3,901
CR2-C54-NP	Non-P	660,901	4,964,220	582.0	40.8	2,287
CR2-C54-NP	Non-P	666,146	4,966,653	579.4	40.8	2,287
CR1-C72-NP	Non-P	665,217	4,977,746	609.0	40.7	3,779
CR1-C87-NP	Non-P	665,135	4,988,293	595.9	40.5	4,258
CR2-C39-NP	Non-P	661,701	4,978,792	564.0	40.5	2,178
CR2-C47-NP	Non-P	661,541	4,969,653	600.0	40.5	2,821
CR1-C87-NP	Non-P	660,619	4,984,078	595.8	40.5	4,258
CR2-C39-NP	Non-P	660,584	4,972,570	591.0	40.5	2,178
CR1-C7-NP	Non-P	665,429	4,988,598	590.9	40.1	3,022
CR2-C102-NP	Non-P	664,089	4,966,486	566.2	40.1	3,609
CR2-C103-NP	Non-P	662,200	4,975,837	594.5	40.1	3,547
CR2-C71-NP	Non-P	657,554	4,975,128	554.6	40.1	2,529
CR2-C105-NP	Non-P	662,025	4,976,085	594.1	40.0	3,425
CR2-C36-NP	Non-P	662,977	4,964,794	584.0	40.0	2,992

Table C-3: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Sound Level Realistic case sound results 25 ft from occupied structures perimeter Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Codington County

B ID	Participation	F	No othio o (oo)	Elevation AMSL	Real Case Sound	Distance to Nearest
Receptor ID	Status	Easting (m)	Northing (m)	(m)	(dB(A))	Turbine (ft)
CR2-C53-NP	Non-P	664,705	4,972,092	597.3	40.0	2,257
CR2-C46-NP	Non-P	663,938	4,970,546	597.0	39.7	2,569
CR2-C117-NP	Non-P	664,742	4,976,142	594.2	39.6	3,481
CR2-C134-NP	Non-P	659,718	4,985,032	606.0	39.6	3,363
CR2-C10-NP	Non-P	660,475	4,974,426	578.6	39.5	2,438
CR2-C116-NP	Non-P	660,435	4,965,627	582.0	39.4	3,533
CR2-C16-NP	Non-P	659,958	4,984,794	604.8	39.2	2,756
CR2-C135-NP	Non-P	660,062	4,983,083	597.0	39.0	2,884
CR2-C136-NP	Non-P	660,907	4,964,846	582.0	39.0	2,887
CR1-C24-NP	Non-P	666,389	4,966,670	585.0	38.9	3,038
CR2-C40-NP	Non-P	661,223	4,968,144	595.2	38.6	2,854
CR2-C42-NP	Non-P	659,351	4,983,174	604.4	38.6	3,566
CR2-C75-NP	Non-P	662,517	4,963,408	579.0	38.6	4,396
CR1-C67-NP	Non-P	666,992	4,977,048	615.0	38.5	5,791
CR1-C81-NP	Non-P	665,137	4,988,378	595.6	38.5	3,094
CR2-C49-NP	Non-P	663,855	4,970,535	597.0	38.5	3,271
CR1-C66-NP	Non-P	665,939	4,988,950	585.4	38.4	5,800
CR2-C76-NP	Non-P	657,016	4,977,505	553.6	38.4	4,560
CR1-C5-NP	Non-P	663,792	4,985,785	612.0	38.2	5,659
CR2-C52-NP	Non-P	659,248	4,974,054	567.0	38.1	3,054
CR2-C43-NP	Non-P	659,607	4,982,216	594.0	38.0	4,232
CR1-C4-NP	Non-P	665,352	4,985,004	609.0	37.9	5,981
CR2-C23-NP	Non-P	660,684	4,967,166	588.0	37.8	4,439
CR2-C37-NP	Non-P	665,694	4,966,179	570.0	37.7	3,537
CR2-C77-NP	Non-P	656,697	4,977,269	566.9	37.7	4,406
CR2-C119-NP	Non-P	665,189	4,966,505	570.0	37.5	4,760
CR2-C55-NP	Non-P	662,396	4,963,954	582.0	37.4	3,658
CR2-C118-NP	Non-P	664,640	4,976,142	591.1	37.3	4,947
CR2-C107-NP	Non-P	662,122	4,976,029	595.3	37.1	4,564
CR2-C56-NP	Non-P	662,699	4,972,874	606.0	37.1	3,789
CR2-C58-NP	Non-P	662,109	4,972,735	604.0	36.9	3,904
CR2-C51-NP	Non-P	659,316	4,974,063	570.6	36.8	3,934
CR1-C88-NP	Non-P	663,066	4,982,530	591.0	36.6	4,045
CR2-C7-NP	Non-P	665,273	4,983,933	609.0	36.6	4,409
CR2-C69-NP	Non-P	660,687	4,969,931	586.5	36.5	5,171
CR2-C112-NP	Non-P	662,401	4,964,782	582.0	36.4	6,575
CR2-C29-NP	Non-P	663,037	4,974,496	606.0	36.4	4,639
CR2-C67-NP	Non-P	664,345	4,964,571	556.0	36.3	5,033

Table C-3: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Sound Level Realistic case sound results 25 ft from occupied structures perimeter
Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's
UTM NAD83 Zone 14
Codington County
continued

Receptor ID	Participation	Easting (m)	Northing (m)	Elevation AMSL	Real Case Sound	Distance to Nearest
Receptor ID	Status	Lasting (ill)	Horuma (III)	(m)	(dB(A))	Turbine (ft)
CR1-C80-NP	Non-P	666,869	4,984,663	587.9	36.1	5,308
CR1-C84-NP	Non-P	660,452	4,983,750	595.9	36.1	5,856
CR1-C85-NP	Non-P	666,572	4,988,867	575.9	36.1	4,819
CR2-C24-NP	Non-P	664,382	4,975,544	597.0	35.7	3,809
CR2-C72-NP	Non-P	659,100	4,968,023	568.6	35.7	6,135
CR2-C91-NP	Non-P	663,054	4,987,455	606.0	35.7	6,457
CR2-C91-NP	Non-P	663,934	4,966,991	570.1	35.7	6,457
CR2-C72-NP	Non-P	660,532	4,984,445	599.4	35.7	6,135
CR2-C35-NP	Non-P	660,764	4,964,686	582.0	35.6	4,442
CR2-C92-NP	Non-P	661,915	4,983,367	591.0	35.6	6,247
CR2-C96-NP	Non-P	662,985	4,968,167	582.0	35.6	4,816
CR2-C90-NP	Non-P	660,755	4,984,082	594.0	35.6	6,863
CR2-C95-NP	Non-P	666,667	4,976,162	613.8	35.4	4,905
CR2-C95-NP	Non-P	665,521	4,970,518	588.9	35.4	4,905
CR2-C64-NP	Non-P	660,732	4,972,807	591.0	35.1	4,429
CR2-C80-NP	Non-P	662,652	4,987,606	609.0	35.1	7,684
CR2-C66-NP	Non-P	662,244	4,971,076	603.0	34.7	4,429
CR2-C44-NP	Non-P	659,706	4,981,419	588.0	34.5	4,183
CR2-C109-NP	Non-P	665,411	4,970,503	586.1	34.4	7,169
CR2-C109-NP	Non-P	660,190	4,983,788	602.3	34.4	7,169
CR2-C104-NP	Non-P	660,893	4,984,861	593.2	34.3	6,608
CR2-C106-NP	Non-P	662,046	4,976,067	594.8	34.2	6,749
CR2-C22-NP	Non-P	662,086	4,982,135	585.0	34.1	6,247
CR2-C101-NP	Non-P	662,628	4,982,425	585.4	34.0	6,266
CR2-C86-NP	Non-P	662,685	4,987,619	609.0	34.0	7,208
CR2-C87-NP	Non-P	664,111	4,985,679	609.0	34.0	7,165
CR2-C151-NP	Non-P	664,747	4,969,738	584.8	33.9	6,929
CR2-C89-NP	Non-P	661,252	4,976,035	597.0	33.8	6,489
CR2-C3-NP	Non-P	665,928	4,972,630	603.0	33.7	7,497
CR2-C100-NP	Non-P	662,636	4,976,079	597.0	33.4	7,057
CR2-C100-NP	Non-P	660,190	4,983,788	602.3	33.4	7,057
CR2-C93-NP	Non-P	664,952	4,976,698	601.9	33.0	7,795
CR2-C74-NP	Non-P	659,202	4,973,052	583.9	32.9	6,732
CR2-C30-NP	Non-P	665,052	4,974,682	600.0	32.8	5,502
CR2-C94-NP	Non-P	666,992	4,967,681	571.2	32.8	8,136
CR2-C155-NP	Non-P	659,208	4,968,159	572.8	32.8	7,054
CR2-C68-NP	Non-P	660,592	4,972,602	591.0	32.5	6,237
CR2-C41-P	Participant	660,379	4,978,592	556.1	45.6	1,532

Table C-3: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Sound Level Realistic case sound results 25 ft from occupied structures perimeter Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Codington County

Receptor ID	Participation Status	Easting (m)	Northing (m)	Elevation AMSL (m)	Real Case Sound (dB(A))	Distance to Nearest Turbine (ft)
CR2-C78-P	Participant	660,770	4,975,147	596.4	45.3	1,919
CR1-C68-P	Participant	660,874	4,966,929	585.5	45.2	2,146
CR1-C69-P	Participant	662,370	4,965,588	590.3	45.1	2,185
CR2-C50-P	Participant	664,088	4,970,672	594.0	44.9	1,696
CR1-C77-P	Participant	662,238	4,980,604	590.9	43.8	1,654
CR1-C20-P	Participant	662,287	4,976,800	594.0	43.8	2,336
CR2-C59-P	Participant	662,165	4,972,711	604.7	43.2	1,654
CR2-C27-P	Participant	659,744	4,984,749	606.0	42.6	1,726
CR2-C133-P	Participant	664,866	4,969,808	583.7	42.5	2,500
CR2-C57-P	Participant	659,145	4,966,062	561.4	42.5	2,356
CR2-C63-P	Participant	661,202	4,972,711	597.0	42.5	2,185
CR1-C89-P	Participant	662,981	4,982,580	588.3	42.2	2,165
CR2-C26-P	Participant	662,688	4,964,792	585.9	42.1	1,959
CR1-C86-P	Participant	663,010	4,982,658	588.0	41.8	2,303
CR2-C154-P	Participant	663,878	4,967,612	576.1	41.7	2,041
CR2-C154-P	Participant	660,756	4,984,086	594.0	41.7	2,041
CR2-C34-P	Participant	660,759	4,964,737	582.0	41.0	2,133
CR2-C70-P	Participant	659,203	4,973,158	584.9	41.0	2,215
CR2-C33-P	Participant	662,265	4,978,194	577.7	40.6	2,999
CR2-C33-P	Participant	666,716	4,966,751	591.0	40.6	2,999
CR1-C78-P	Participant	662,198	4,980,622	591.0	39.2	2,835
CR1-C78-P	Participant	666,727	4,966,695	591.0	39.2	2,835
CR1-C25-P	Participant	663,117	4,972,923	606.0	39.2	2,838
CR1-C8-P	Participant	663,555	4,980,564	575.2	39.0	3,740
CR2-C129-P	Participant	660,176	4,983,887	601.1	39.0	3,356
CR2-C60-P	Participant	658,951	4,979,194	568.2	39.0	3,793
CR2-C60-P	Participant	664,058	4,965,862	570.0	39.0	3,793
CR2-C130-P	Participant	659,789	4,985,057	606.0	38.9	3,350
CR2-C128-P	Participant	667,209	4,966,166	595.4	38.5	3,671
CR2-C126-P	Participant	667,172	4,966,196	595.2	37.9	4,455
CR2-C123-P	Participant	665,418	4,966,866	567.0	37.6	5,216
CR2-C45-P	Participant	663,856	4,970,488	597.0	37.4	3,907
CR2-C45-P	Participant	659,469	4,967,984	575.2	37.4	3,907
CR2-C31-P	Participant	665,014	4,974,639	600.0	34.4	7,579
CR2-C32-P	Participant	660,765	4,964,777	582.0	33.9	4,678
CR2-C99-P	Participant	663,651	4,987,157	610.4	33.4	7,165
CR2-C28-P	Participant	664,069	4,969,661	594.0	32.8	5,630
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Table C-3: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Sound Level Realistic case sound results 25 ft from occupied structures perimeter Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Deuel County

Receptor ID	Participation	Easting (m)	Northing (m)	Elevation AMSL	Real Case Sound	Distance to Nearest
Receptor ID	Status	Easting (m)	Northing (m)	(m)	(dB(A))	Turbine (ft)
CR2-D3-NP	Non-P	672,080	4,973,212	591.0	44.5	2,037
CR2-D85-NP	Non-P	671,823	4,960,368	615.0	44.1	1,965
CR2-D83-NP	Non-P	669,402	4,979,216	588.0	43.8	1,929
CR2-D21-NP	Non-P	670,392	4,975,925	592.8	43.8	1,985
CR2-D44-NP	Non-P	668,130	4,976,068	609.2	43.6	2,149
CR2-D108-NP	Non-P	674,387	4,968,515	588.0	43.5	2,198
CR2-D121-NP	Non-P	667,228	4,971,527	606.0	43.5	2,316
CR2-D86-NP	Non-P	667,178	4,971,525	606.0	43.4	1,985
CR2-D77-NP	Non-P	675,005	4,970,131	577.8	43.1	2,444
CR2-D221-1-NP	Non-P	669,283	4,971,621	607.2	43.1	1,995
CR2-D20-NP	Non-P	670,260	4,967,728	597.0	43.0	2,313
CR2-D54-NP	Non-P	671,626	4,966,693	601.7	43.0	2,500
CR2-D221-NP	Non-P	670,974	4,969,938	606.0	43.0	2,041
CR2-D14-NP	Non-P	676,741	4,964,971	579.0	43.0	2,041
CR2-D15-NP	Non-P	670,260	4,967,728	597.0	42.6	2,297
CR2-D12-NP	Non-P	667,159	4,972,169	598.2	42.5	2,051
CR2-D71-NP	Non-P	667,108	4,982,083	597.0	42.5	1,975
CR2-D11-NP	Non-P	670,455	4,960,601	611.6	42.4	2,028
CR2-D19-NP	Non-P	675,261	4,968,400	579.0	42.3	2,034
CR2-D5-NP	Non-P	672,044	4,966,468	600.0	42.2	1,923
CR2-D220-NP	Non-P	672,024	4,974,135	583.2	42.2	2,211
CR2-D110-NP	Non-P	673,641	4,962,583	609.0	42.2	2,211
CR2-D128-NP	Non-P	667,164	4,972,232	600.0	42.1	2,779
CR2-D30-NP	Non-P	671,994	4,971,562	600.0	42.1	2,113
CR2-D105-NP	Non-P	672,012	4,966,477	600.0	41.9	2,821
CR2-D18-NP	Non-P	667,211	4,969,816	608.3	41.9	2,201
CR2-D132-NP	Non-P	676,828	4,963,280	588.0	41.7	2,316
CR2-D107-NP	Non-P	670,351	4,973,543	606.0	41.6	3,143
CR2-D79-NP	Non-P	673,491	4,972,398	577.8	41.6	1,962
CR2-D41-NP	Non-P	668,148	4,976,230	608.8	41.3	3,340
CR2-D126-NP	Non-P	671,925	4,970,149	603.0	41.2	2,749
CR2-D223-NP	Non-P	668,762	4,967,671	591.0	41.2	2,749
CR2-D62-NP	Non-P	669,855	4,970,718	603.0	41.0	3,015
CR2-D22-NP	Non-P	673,842	4,966,875	597.0	40.9	2,142
CR2-D101-NP	Non-P	669,593	4,976,302	603.0	40.8	2,677
CR2-D127-NP	Non-P	669,661	4,980,356	576.0	40.8	2,894
CR2-D65-NP	Non-P	672,015	4,967,209	602.8	40.8	3,583
CR2-D36-NP	Non-P	673,527	4,967,015	596.7	40.8	2,854

Table C-3: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Sound Level Realistic case sound results 25 ft from occupied structures perimeter Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Deuel County

Receptor ID Failtopaton Easting (m) Northing (m) Elevation Aivist (ab(A)) Real case sould (ab(A)) Turbin (ab(A)) CR2-D125-NP Non-P 667,172 4,971,776 606.0 40.7 3,43 CR2-D46-NP Non-P 671,876 4,969,006 600.0 40.7 2,99 CR2-D120-NP Non-P 667,546 4,976,173 618.0 40.6 3,13 CR2-D130-NP Non-P 675,131 4,970,954 573.0 40.6 2,26 CR2-D222-NP Non-P 671,911 4,967,745 603.0 40.6 2,26 CR2-D224-NP Non-P 669,757 4,972,426 606.0 40.5 3,26 CR2-D48-NP Non-P 670,443 4,961,600 613.8 40.3 2,66 CR2-D91-NP Non-P 676,885 4,965,806 576.0 40.2 4,11 CR2-D91-NP Non-P 670,546 4,961,419 615.0 39.9 4,33 CR2-D45-NP Non-P 676,828	22 72 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
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CR2-D130-NP Non-P 675,131 4,970,954 573.0 40.6 2,26 CR2-D222-NP Non-P 671,911 4,967,745 603.0 40.6 2,26 CR2-D224-NP Non-P 669,757 4,972,426 606.0 40.5 3,26 CR2-D48-NP Non-P 670,443 4,961,600 613.8 40.3 2,66 CR2-D91-NP Non-P 676,885 4,965,806 576.0 40.2 4,18 CR2-D17-NP Non-P 671,540 4,976,154 582.0 40.1 3,34 CR2-D99-NP Non-P 672,072 4,971,556 600.0 40.0 4,33 CR2-D45-NP Non-P 670,546 4,961,419 615.0 39.9 4,33 CR2-D4-NP Non-P 676,828 4,963,231 588.0 39.9 4,56 CR2-D90-NP Non-P 670,366 4,973,541 606.0 39.7 3,36 CR2-D189-NP Non-P 670,348 4,963,826 611.7 39.5	50 54 51 53 53 51 53 55 50 57
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CR2-D99-NP Non-P 672,072 4,971,556 600.0 40.0 4,33 CR2-D45-NP Non-P 670,546 4,961,419 615.0 39.9 4,33 CR2-D74-NP Non-P 676,828 4,963,231 588.0 39.9 4,50 CR2-D90-NP Non-P 670,366 4,973,541 606.0 39.7 3,30 CR2-D51-NP Non-P 670,348 4,963,826 611.7 39.5 2,77 CR2-D189-NP Non-P 669,549 4,974,233 611.9 38.9 3,79 CR2-D213-NP Non-P 671,159 4,971,610 597.2 38.9 3,89 CR2-D112-NP Non-P 668,781 4,964,897 603.0 38.8 3,59 CR2-D113-NP Non-P 668,625 4,967,652 588.0 38.8 3,59 CR2-D129-NP Non-P 669,473 4,981,625 570.0 38.8 4,49 CR2-D52-NP Non-P 669,671 4,980,468 573.0 38	31 93 95 50 .7
CR2-D45-NP Non-P 670,546 4,961,419 615.0 39.9 4,33 CR2-D74-NP Non-P 676,828 4,963,231 588.0 39.9 4,56 CR2-D90-NP Non-P 670,366 4,973,541 606.0 39.7 3,36 CR2-D51-NP Non-P 670,348 4,963,826 611.7 39.5 2,77 CR2-D189-NP Non-P 669,549 4,974,233 611.9 38.9 3,79 CR2-D213-NP Non-P 671,159 4,971,610 597.2 38.9 3,89 CR2-D112-NP Non-P 668,781 4,964,897 603.0 38.8 3,59 CR2-D113-NP Non-P 668,625 4,967,652 588.0 38.8 3,59 CR2-D129-NP Non-P 669,473 4,981,625 570.0 38.8 4,49 CR2-D52-NP Non-P 669,671 4,980,468 573.0 38.1 4,59 CR2-D133-NP Non-P 669,497 4,974,128 609.0 3	93 95 60 .7
CR2-D74-NP Non-P 676,828 4,963,231 588.0 39.9 4,56 CR2-D90-NP Non-P 670,366 4,973,541 606.0 39.7 3,36 CR2-D51-NP Non-P 670,348 4,963,826 611.7 39.5 2,77 CR2-D189-NP Non-P 669,549 4,974,233 611.9 38.9 3,79 CR2-D213-NP Non-P 671,159 4,971,610 597.2 38.9 3,89 CR2-D112-NP Non-P 668,781 4,964,897 603.0 38.8 3,59 CR2-D113-NP Non-P 668,625 4,967,652 588.0 38.8 3,59 CR2-D129-NP Non-P 669,473 4,981,625 570.0 38.8 4,49 CR2-D52-NP Non-P 669,671 4,980,468 573.0 38.1 4,59 CR2-D72-NP Non-P 669,497 4,974,128 609.0 38.0 4,49 CR2-D133-NP Non-P 667,119 4,977,925 612.0 3	05 60 17 57
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CR2-D189-NP Non-P 669,549 4,974,233 611.9 38.9 3,75 CR2-D213-NP Non-P 671,159 4,971,610 597.2 38.9 3,85 CR2-D112-NP Non-P 668,781 4,964,897 603.0 38.8 3,55 CR2-D113-NP Non-P 668,625 4,967,652 588.0 38.8 3,55 CR2-D129-NP Non-P 669,473 4,981,625 570.0 38.8 4,45 CR2-D52-NP Non-P 669,671 4,980,468 573.0 38.1 4,56 CR2-D72-NP Non-P 669,497 4,974,128 609.0 38.0 4,45 CR2-D133-NP Non-P 667,119 4,977,925 612.0 38.0 4,03	57
CR2-D213-NP Non-P 671,159 4,971,610 597.2 38.9 3,8: CR2-D112-NP Non-P 668,781 4,964,897 603.0 38.8 3,5: CR2-D113-NP Non-P 668,625 4,967,652 588.0 38.8 3,5: CR2-D129-NP Non-P 669,473 4,981,625 570.0 38.8 4,4! CR2-D52-NP Non-P 669,671 4,980,468 573.0 38.1 4,5! CR2-D72-NP Non-P 669,497 4,974,128 609.0 38.0 4,4! CR2-D133-NP Non-P 667,119 4,977,925 612.0 38.0 4,0!	
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CR2-D113-NP Non-P 668,625 4,967,652 588.0 38.8 3,53 CR2-D129-NP Non-P 669,473 4,981,625 570.0 38.8 4,45 CR2-D52-NP Non-P 669,671 4,980,468 573.0 38.1 4,58 CR2-D72-NP Non-P 669,497 4,974,128 609.0 38.0 4,49 CR2-D133-NP Non-P 667,119 4,977,925 612.0 38.0 4,03	
CR2-D129-NP Non-P 669,473 4,981,625 570.0 38.8 4,44 CR2-D52-NP Non-P 669,671 4,980,468 573.0 38.1 4,58 CR2-D72-NP Non-P 669,497 4,974,128 609.0 38.0 4,49 CR2-D133-NP Non-P 667,119 4,977,925 612.0 38.0 4,03	53
CR2-D52-NP Non-P 669,671 4,980,468 573.0 38.1 4,58 CR2-D72-NP Non-P 669,497 4,974,128 609.0 38.0 4,49 CR2-D133-NP Non-P 667,119 4,977,925 612.0 38.0 4,03	37
CR2-D72-NP Non-P 669,497 4,974,128 609.0 38.0 4,45 CR2-D133-NP Non-P 667,119 4,977,925 612.0 38.0 4,03	52
CR2-D133-NP Non-P 667,119 4,977,925 612.0 38.0 4,03	33
	95
CP2 D07 ND Non D 672 172 4 074 727 E9E 0 27 9 E 2	35
CR2-D97-NP Non-P 672,172 4,974,737 585.0 37.8 5,3	7 1
CR2-D84-NP Non-P 670,405 4,966,321 597.0 37.7 5,53	35
CR2-D100-NP Non-P 670,227 4,967,455 593.3 37.7 4,70)8
CR2-D9-NP Non-P 670,227 4,967,455 593.3 37.6 4,95	21
CR2-D23-NP Non-P 669,417 4,978,434 588.0 37.6 4,38	30
CR2-D92-NP Non-P 670,404 4,966,786 597.0 37.4 3,88	31
CR2-D82-NP Non-P 669,797 4,966,804 591.0 37.4 5,93	35
CR2-D109-NP Non-P 668,558 4,969,840 604.7 37.3 4,43	32
CR2-D95-NP Non-P 669,812 4,966,746 591.0 37.0 3,93	80
CR2-D73-NP Non-P 668,841 4,969,858 603.0 36.9 4,03	35
CR2-D104-NP Non-P 674,461 4,966,734 594.0 36.8 4,0	58
CR2-D63-NP Non-P 670,354 4,965,949 594.0 36.5 4,06	55
CR2-D106-NP Non-P 670,351 4,973,543 606.0 36.3 5,35	:1
CR2-D75-NP Non-P 668,443 4,974,627 614.4 36.2 6,35	, <u> </u>
CR2-D190-NP Non-P 670,422 4,966,654 597.0 36.0 4,48	
CR2-D96-NP Non-P 670,437 4,966,409 597.0 35.7 5,83	55

Table C-3: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Sound Level Realistic case sound results 25 ft from occupied structures perimeter Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Deuel County

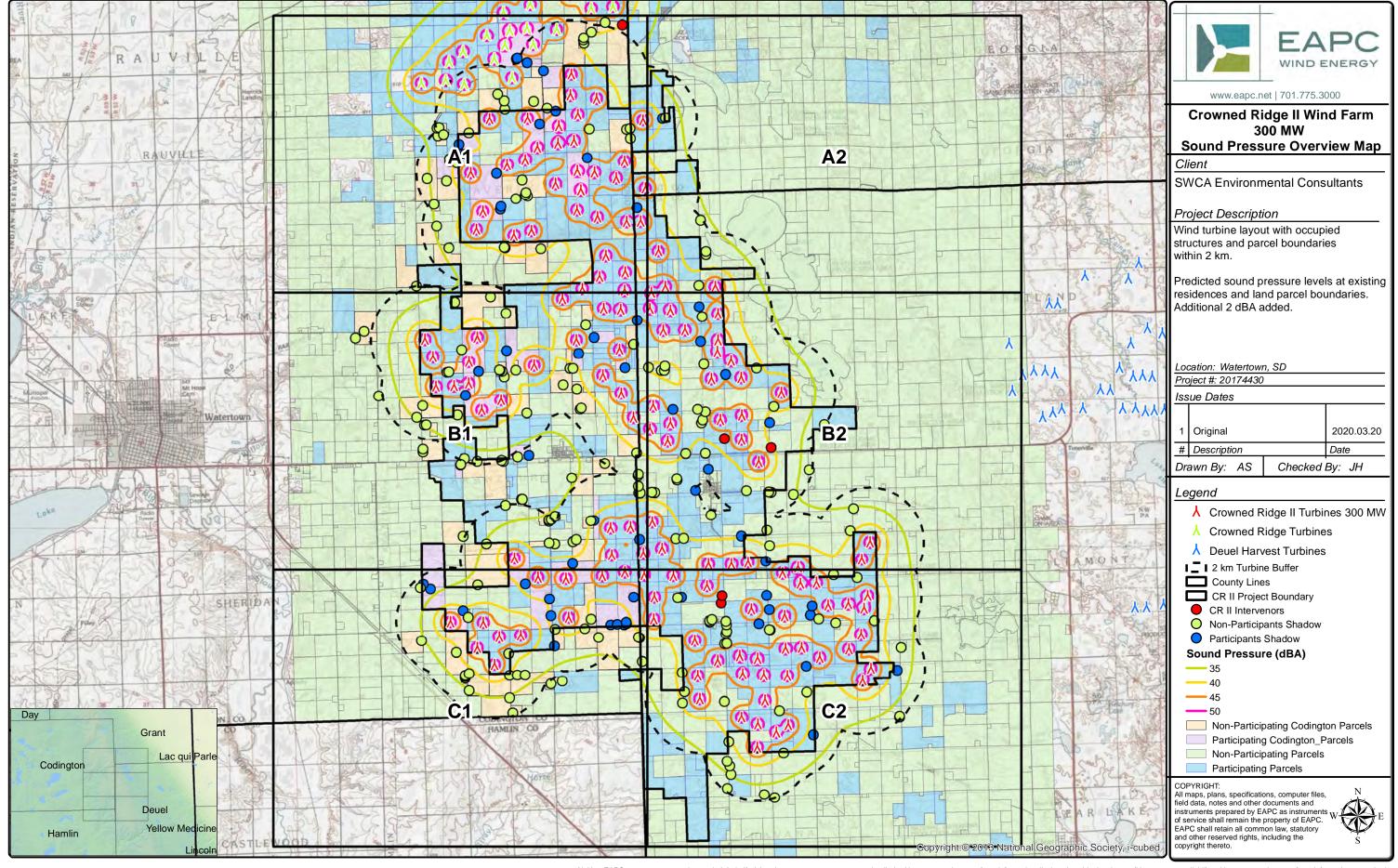
Receptor ID	Participation Status	Easting (m)	Northing (m)	Elevation AMSL (m)	Real Case Sound (dB(A))	Distance to Nearest Turbine (ft)
CR2-D116-NP	Non-P	668,798	4,963,767	603.1	34.9	6,220
CR2-D37-NP	Non-P	673,601	4,967,341	594.0	34.3	6,548
CR2-D207-NP	Non-P	672,023	4,969,597	597.0	33.9	6,250
CR2-D206-NP	Non-P	668,923	4,972,998	609.0	33.8	6,365
CR2-D180-NP	Non-P	669,517	4,978,053	596.1	33.7	5,856
CR2-D205-NP	Non-P	672,081	4,973,212	591.0	33.5	6,194
CR2-D154-NP	Non-P	672,390	4,963,482	612.0	33.2	6,496
CR2-D212-P	Participant	668,597	4,971,999	611.5	45.8	1,686
CR2-D53-P	Participant	667,315	4,965,297	594.0	45.8	1,808
CR2-D38-P	Participant	673,378	4,965,126	602.6	45.0	1,693
CR2-D119-P	Participant	669,887	4,966,846	590.6	44.5	1,932
CR2-D131-P	Participant	674,048	4,974,071	573.0	44.4	2,087
CR2-D56-P	Participant	672,205	4,960,261	610.8	44.3	2,110
CR2-D39-P	Participant	672,899	4,971,469	594.0	44.2	1,706
CR2-D122-P	Participant	669,645	4,973,005	606.0	44.1	1,886
CR2-D50-P	Participant	669,646	4,974,534	604.4	43.8	1,965
CR2-D16-P	Participant	670,516	4,962,327	612.0	43.1	2,018
CR2-D111-P	Participant	668,870	4,964,178	606.0	42.9	2,178
CR2-D123-P	Participant	667,666	4,971,554	604.6	42.9	2,441
CR2-D64-P	Participant	669,471	4,977,139	597.5	42.8	2,425
CR2-D124-P	Participant	667,774	4,971,544	606.9	42.5	2,493
CR2-D6-P	Participant	668,589	4,972,064	609.9	41.9	2,844
CR2-D115-P	Participant	669,355	4,974,624	609.0	39.7	3,245
CR2-D49-P	Participant	670,588	4,961,119	615.0	39.5	3,537
CR2-D176-P	Participant	675,891	4,966,810	579.0	38.4	3,304
CR2-D208-P	Participant	668,018	4,976,064	611.5	38.2	3,205
CR2-D98-P	Participant	673,401	4,964,165	609.0	37.6	5,381
CR2-D192-P	Participant	672,538	4,961,910	612.8	37.0	6,499
			-			
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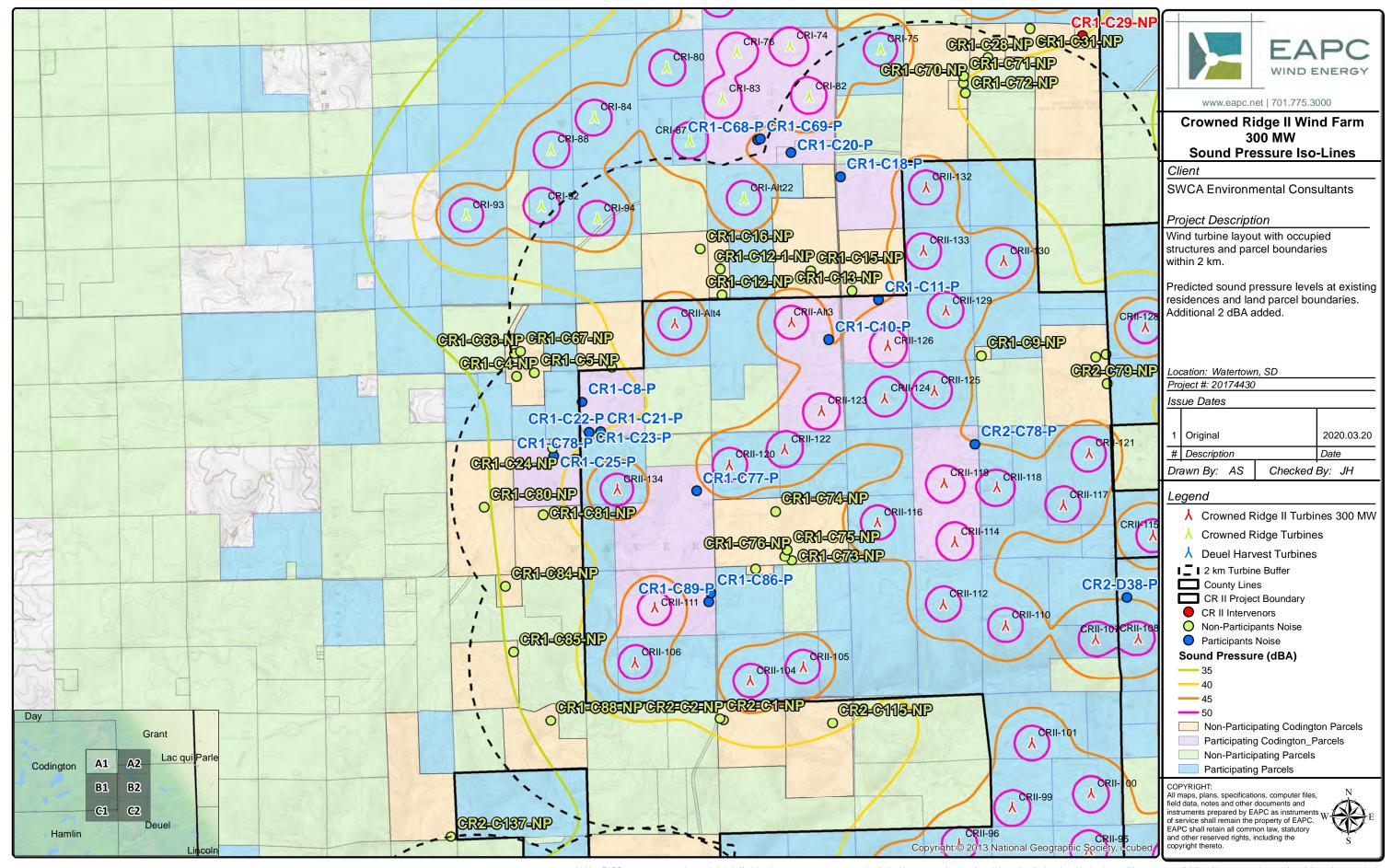
Table C-3: Crowned Ridge II 300 MW Sound Level Tabular Results Sorted by Sound Level Realistic case sound results 25 ft from occupied structures perimeter Results using GE 2.3-116-90 m HH, GE 2.1-116-80 m HH WTG's UTM NAD83 Zone 14 Grant County

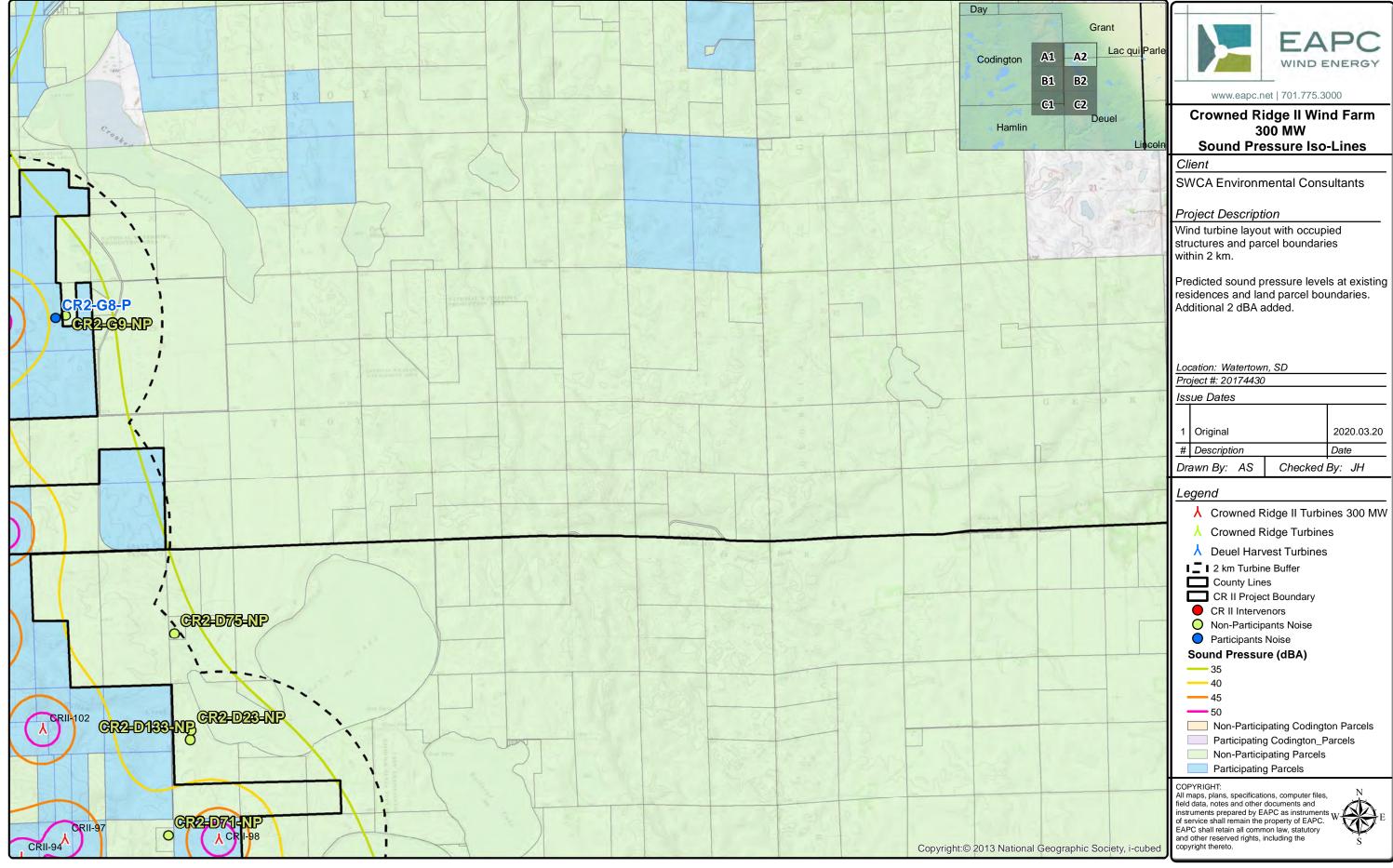
Receptor ID	Participation Status	Easting (m)	Northing (m)	Elevation AMSL		Distance to Nearest
				(m)	(dB(A))	Turbine (ft)
CR2-G9-NP	Non-P	677,465	4,991,043	492.0	38.6	2,782
CR1-G70-NP	Non-P	674,301	5,005,773	393.0	29.7	12,651
CR1-G600-NP	Non-P	668,054	4,985,395	576.0	28.7	13,186
CR2-G8-P	Participant	668,173	4,985,425	570.1	39.6	2,385



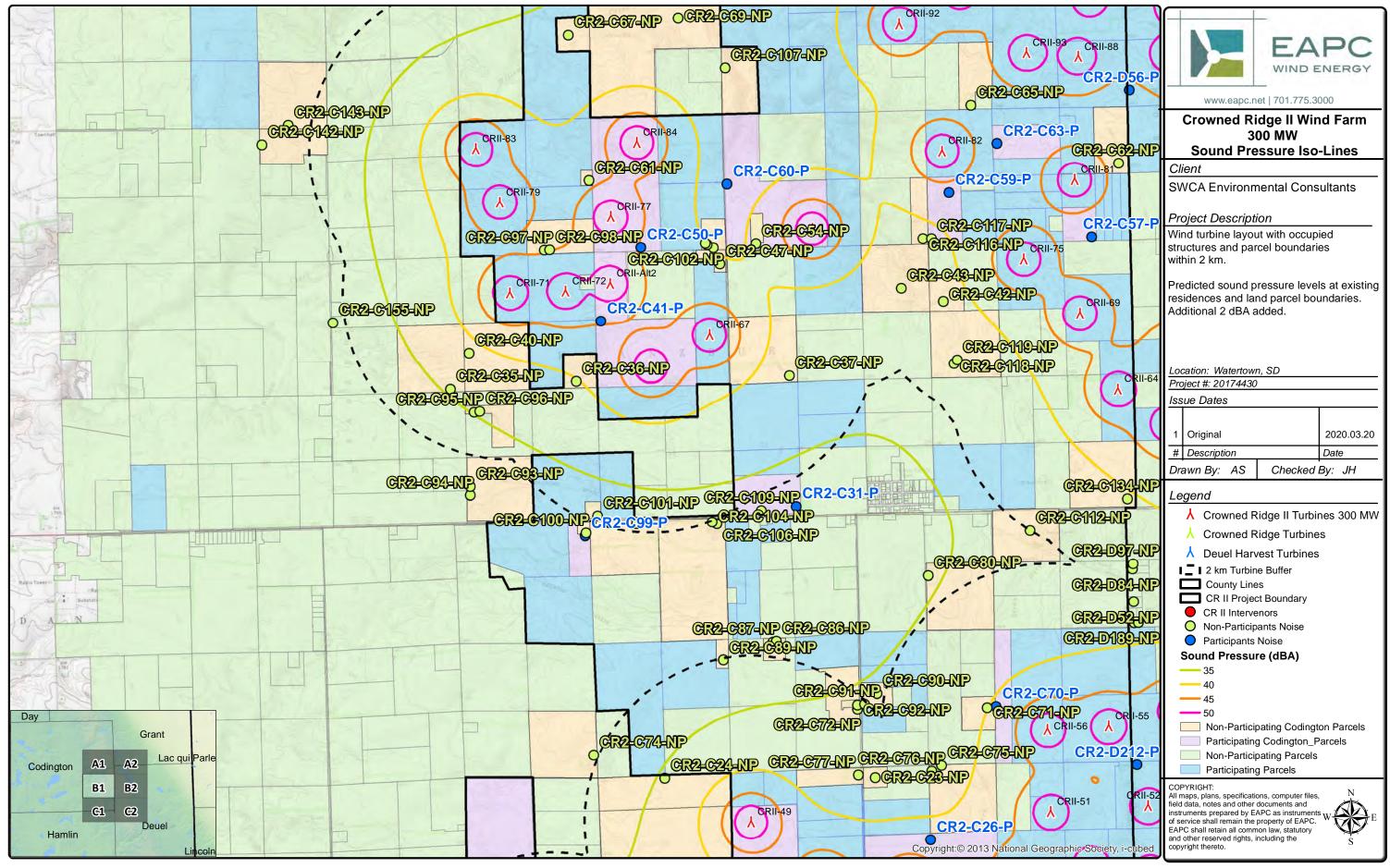
APPENDIX D: STANDARD RESOLUTION SOUND MAPS

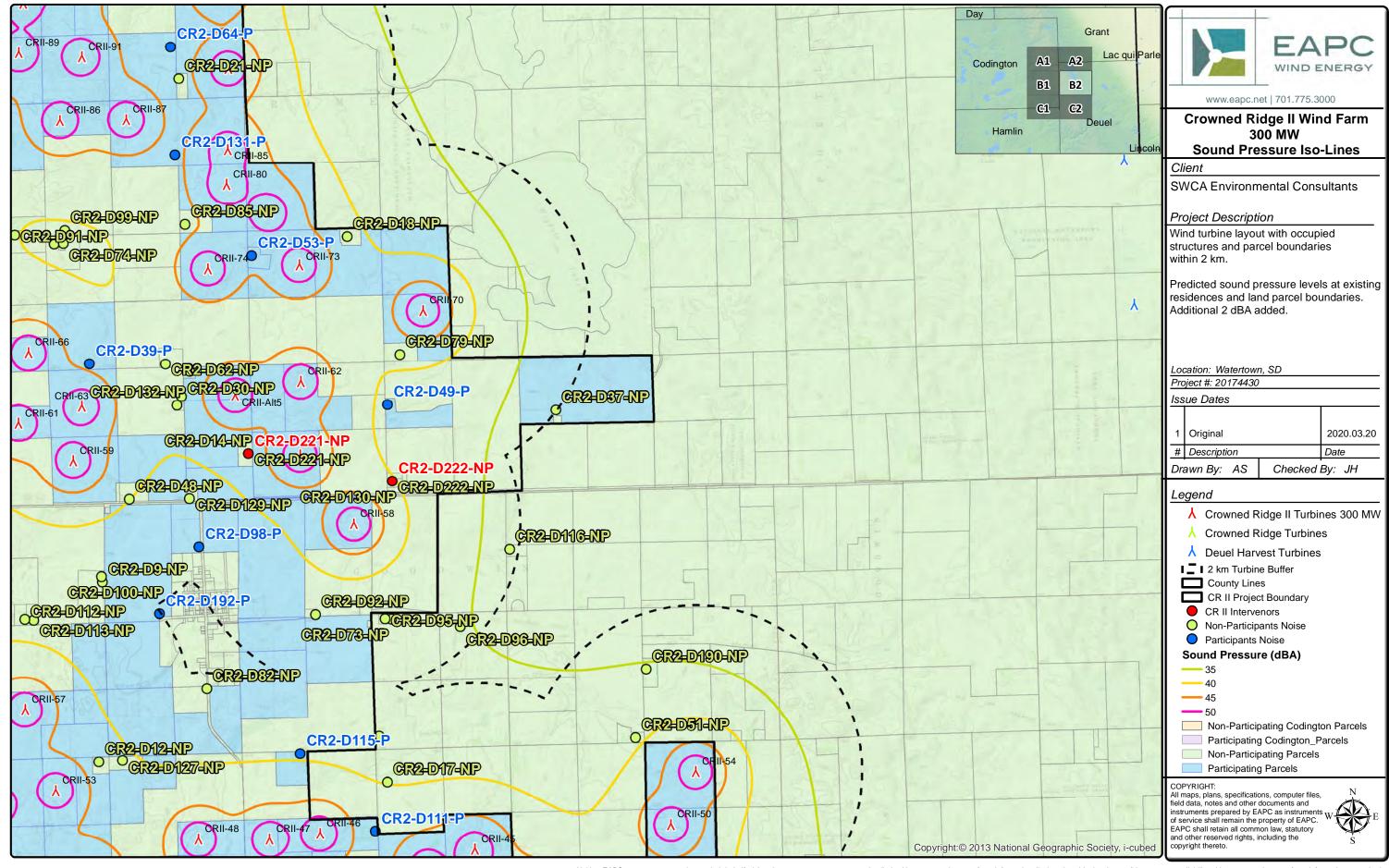






0 0.275 0.55





0 0.275 0.55

