

September 9, 2021

Ms. Tanowa Troupe, Secretary
Ohio Power Siting Board
Docketing Division
180 East Broad Street, 11th Floor
Columbus, Ohio 43215-3797

Re: Case No. 20-417-EL-BGN -In the Matter of the Application of Grover Hill Wind, LLC for a Certificate of Environmental Compatibility and Public Need to Construct a Wind-Powered Electric Generation Facility in Paulding County, Ohio.

Supplemental Response to Fifth Data Request from Staff of the Ohio Power Siting Board

Dear Ms. Troupe:

Attached please find Grover Hill Wind, LLC's ("Applicant") Supplemental Response to the Fifth Data Request from the staff of the Ohio Power Siting Board ("OPSB Staff"). The Applicant provided this response to OPSB Staff on September 9, 2021.

We are available, at your convenience, to answer any questions you may have.

Respectfully submitted,

/s/ Christine M.T. Pirik

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CERTIFICATE OF SERVICE

The Ohio Power Siting Board's e-filing system will electronically serve notice of the filing of this document on the parties referenced in the service list of the docket card who have electronically subscribed to these cases. In addition, the undersigned certifies that a copy of the foregoing document is also being served upon the persons below this 9th day of September, 2021.

/s/ Christine M.T. Pirik

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4816-5167-5641 v2 [73809-23]

**BEFORE
THE OHIO POWER SITING BOARD**

In the Matter of the Application of Grover Hill Wind,)
LLC for a Certificate of Environmental Compatibility)
and Public Need to Construct a Wind-Powered) Case No: 20-417-EL-BGN
Electric Generation Facility in Paulding County, Ohio)

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GROVER HILL WIND, LLC 'S
SUPPLEMENTAL RESPONSE TO THE FIFTH DATA REQUEST
FROM THE STAFF OF THE OHIO POWER SITING BOARD

On May 3, 2021, as supplemented on June 7, 2021, Grover Hill Wind, LLC (“Applicant”) filed an application (“Application”) with the Ohio Power Siting Board (“OPSB”) proposing to construct a wind-powered electric generation facility in Paulding County, Ohio (“Project”).

On June 29, 2021, the Staff of the OPSB (“OPSB Staff”) provided the Applicant with OPSB Staff’s Fifth Data Request. Now comes the Applicant providing the following Supplemental Response to the Fifth Data Request from the OPSB Staff.

Decommissioning

51. Please provide the total cost estimate to decommission the Grover Hill Wind Farm. This estimate should include:

- (a) a line item cost to restore any access roads and open wind turbine excavations on parcel ID No. 24-11S-002-00 or explanation why it should be excluded,**
- (b) a line item cost to restore any access roads and open wind turbine excavations on parcel ID No. 24-15S-001-00 if T14 is not viable,**
- (c) any contingency costs,**
- (d) and, the total decommissioning cost estimate for the wind turbine model from Table 2 of the Application that is the highest cost to decommission.**

Response: With regard to the excavations on parcel ID No. 24-11S-002-00, on his own, the landowner filled the excavations in 2019. Since that time, the area where the excavation

had been located has been returned to agricultural use by the landowner. With regard to the access road on parcel ID No. 24-11S-002-00 the landowner has requested that the access road remain for farming purposes. The Applicant is in the process of finalizing a release with the landowner to enable the landowner to keep the access road and not have it removed. Once completed, the release will be filed in this docket. Therefore, neither the excavation nor the access road on parcel ID No. 24-11S-002-00 should be included in the decommissioning cost estimate for the Grover Hill Project.

Attachment 1 to this response contains the decommissioning cost estimate requested for Question 51 (b) through (d).

With regard to parcel ID No. 24-15S-001-00 where turbine T14 would have been located, it is estimated that removal of the access road currently occupying the parcel would cost approximately \$1,784.00. This estimate is based on the per foot and per incident cost estimates for the existing approximately 680-foot access road. In addition, it is estimated that the removal of the partial concrete foundation currently occupying the parcel containing T-14 would cost approximately \$15,500.00. This estimate is based on the average per foundation removal cost estimates for the existing partial turbine foundation. These estimates are included in Attachment 1

An estimated contingency cost for the decommissioning process is included in the compiled estimate in Attachment 1. It is valued at \$315,932.00 which is 10% of the total direct decommissioning costs.

The total decommissioning cost estimate for the Grover Hill Wind Farm is provided in Attachment 1. This estimate represents the estimated decommissioning cost associated

with the Vestas V162, the largest of the wind turbine models listed in Table 2 of the Application. This decommissioning cost included in Attachment 1 does not include salvage value.

Respectfully submitted,

/s/ Christine M.T. Pirik

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(Counsel agrees to receive service by email.)

Attorneys for Grover Hill Wind, LLC

Attachment 1

Decommissioning Estimate

Grover Hill Decommissioning Estimate- Paulding County, OH

Grover Hill Wind Decommissioning Cost Estimate				
	Quantity	Unit	Unit Cost	Total Cost
Number of Turbines	23	Each		
Mobilization/Demobilization	1	Lump Sum	\$147,000.00	\$147,000
Permitting				
County Permits	1	Lump Sum	\$2,000.00	\$2,000
State Permits (SWPPP, SPCC)	1	Lump Sum	\$5,000.00	\$5,000
Subtotal Permits				\$7,000
Disconnect Turbine Wiring	23	Each	\$2,631.20	\$60,518
Fell Turbine	23	Each	\$2,169.76	\$49,904
Process to Size and Load Turbine Components for Disposal	11,180	Tons	\$83.55	\$934,111
Haul Metal Turbine Components Offsite for Disposal	11,180	Tons	\$4.98	\$55,662
Haul Non-metalic Turbine Components Offsite For Disposal	3,362	Tons	\$10.70	\$35,960
Non-metalic Turbine Components Disposal	3,362	Tons	\$81.00	\$272,339
Excavate Around Turbine Foundation	23	Each	\$26.22	\$603
Remove Turbine Foundation to a Depth of 4 feet and Load	966	Cubic Yards	\$177.88	\$171,851
Backfill Excavation Area from Turbine Foundation Removal	23	Each	\$212.66	\$4,891
Haul Concrete (Turbine Foundation)	1,956	Tons	\$10.70	\$20,924
Disposal of Concrete from Turbine Foundation	1,961	Tons	\$81.00	\$158,855
Remove and Load Transformer	23	Each	\$507.39	\$11,670
Haul Transformer for Diposal	23	Each	\$41.49	\$954
Remove Transformer Pad	110	Cubic Yards	\$118.25	\$13,033
Transformer Disposal (Including Oil)	23	Each	\$0.00	\$0
Haul Concrete (Transformer Pad)	223	Tons	\$10.70	\$2,387
Disposal of Concrete from Transformer Pad	223	Tons	\$81.00	\$18,077
Decompact Wind Turbine Generator Site	23	Each	\$144.18	\$3,316
Grade Wind Turbine Generator Site	23	Each	\$1,803.00	\$41,469
Erosion and Sediment Control at Turbine/Transformer Site	23	Each	\$454.50	\$10,454
Revegetation at Turbine/Transformer Sites	23	Each	\$3,316.67	\$76,283
Subtotal Wind Turbine Generators*				\$1,943,261
* This total does not include decommissioning cost for PTC Features located on Parcel ID No. 24-15S-001-00 - These are provided below:				
Remove and Load Gravel Surfacing from Access Roads				\$1,748
Remove Turbine Foundation to a Depth of 4 feet and Load				\$15,500
Subtotal for PTC Feature Decommissioning				\$17,248
Met Towers (Free Standing)				2
Disconnect Tower Wiring	2	Each	\$657.80	\$1,316
Dismantel, Disassemble, and Load Tower Components	2	Each	\$2,443.80	\$4,888
Freight Tower Components Offsite for Recycling	8.0	Tons	\$4.98	\$40
Excavate Around Tower Foundation	2	Each	\$7.87	\$16
Remove Tower Foundation to a depth of 4 feet and Load	2	Cubic Yards	\$177.88	\$288
Haul Concrete (Tower Foundation)	3.3	Tons	\$10.70	\$35
Disposal of Concrete from Met Tower	3	Cubic Yards	\$81.00	\$266
Remove and Load Gravel Surfacing from Met Tower Road (Incl w/ Access Roads)	178	Cubic Yards	\$2.37	\$421
Haul Gravel from Met Tower Site	132	Tons	\$12.28	\$1,621
Disposal of Gravel from Met Tower Site	178	Cubic Yards	\$0.00	\$0
Grade Met Tower Site - Includes Met Tower Road	2	Each	\$300.50	\$601
Erosion and Sediment Control at Met Tower Site	2	Each	\$303.00	\$606
Till to Farmable Condition	0.22	Acre	\$3,316.67	\$731
Subtotal Met Towers (Free Standing)				\$10,829

Grover Hill Decommissioning Estimate- Paulding County, OH

Electrical Collection (Remove at Junction Boxes)				
Removal of Underground Collector System Cables (34.5 kV)	28	Each	\$400.00	\$11,200
Haul Underground Collector System Cables (34.5 kV)	1.9	Tons	\$4.98	\$10
Disposal of Removed Cables	0.5	Tons	\$0.00	\$0
Removal of Junction Box	5	Each	\$100.00	\$500
Erosion and Sediment Control at Junction Box Location	11	Each	\$100.00	\$1,100
Revegetation at Junction Box Location	11	Each	\$88.44	\$973
Subtotal Electrical Collection System				\$13,782
Transmission System (Permitted Separately-Not included in decommissioning costs)				
Access Roads				37,140
Remove and Load Gravel Surfacing from Access Roads	11,004	Cubic Yards	\$2.37	\$26,051
Haul Gravel Removed from Access Roads	17,827	Tons	\$10.70	\$190,665
Disposal of Gravel Removed from Access Roads (Use as "Daily Cover")	17,827	Tons	\$0.00	\$0
Remove and Load Culvert from Beneath Access Roads	22	Each	\$448.00	\$9,856
Haul Culvert Removed from Access Roads	11	Tons	\$10.70	\$120
Disposal of Culverts	11	Tons	\$81.00	\$912
Remove Low Water Crossing from Access Roads	4	Each	\$3,400.00	\$13,600
Decompact Access Road Corridor	37,140	Linear Feet	\$0.23	\$8,568
Grade Access Road Corridor	37,140	Linear Feet	\$1.60	\$59,239
Erosion and Sediment Control Along Access Roads	5,571	Linear Feet	\$3.03	\$16,880
Revegetation on Access Roads	20.5	Acres	\$9,631.60	\$197,090
Subtotal Access Roads				\$522,982
Substation				
Disassembly and Removal of Main Power Transformer(s)	1	Each	\$2,000.00	\$2,000
Freight Transformer(s) Offsite for Recycling	1	Each	\$160.00	\$160
Freight Transformer Oil Offsite	12,830	Gallons	\$0.09	\$2,309
Disposal of Transformer (Including Oil) - has Salvage Value	1	Each	\$0.00	\$0
Excavate Around Transformer Foundation(s)	1	Each	\$131.10	\$131
Remove Complete Transformer Foundation(s)	1	Each	\$950.00	\$950
Backfill Excavation Area from Transformer Foundation Removal	1	Each	\$212.66	\$213
Haul Concrete (Transformer, Switch Gear, etc. Foundations)	11	Tons	\$10.70	\$116
Disposal of Concrete from Transformer Foundation	11	Tons	\$81.00	\$877
Demolish Substation Site Improvements (fences, etc)	1	Lump Sum	\$2,500.00	\$2,500
Demolish Control Building and Foundation	1	Lump Sum	\$6,000.00	\$6,000
Remove Medium/High Voltage Equipment	1	Lump Sum	\$1,500.00	\$1,500
Remove Structural Steel Substation Frame	1	Lump Sum	\$1,000.00	\$1,000
Remove Copper Ground Grid	1	Lump Sum	\$1,661.49	\$1,661
Load Copper Wire	20,000	Feet	\$0.46	\$9,122
Haul Copper Wire to Recycling	7	Tons	\$4.98	\$33
Haul - Demolition Materials, Removed Equipment & Structural Steel	1	Lump Sum	\$427.81	\$428
Disposal of Demolition Materials, Removed Equipment and Structural Steel	1	Lump Sum	\$0.00	\$0
Remove and Load Gravel Surfacing from Substation Site	673	Cubic Yards	\$2.37	\$1,593
Haul Gravel Removed from Substation Site	999	Tons	\$10.70	\$10,686
Disposal of Gravel from Substation Site (Use as "Daily Cover")	999	Tons	\$0.00	\$0
Decompact Substation Site	0.63	Acres	\$418.71	\$262
Grade Substation Site	1	Each	\$1,661.49	\$1,661
Erosion and Sediment Control at Substation Site	1	Lump Sum	\$2,014.95	\$2,015
Till to Farmable Condition at Substation Site	0.63	Acres	\$3,316.67	\$2,075
Subtotal Substation				\$47,292

Grover Hill Decommissioning Estimate- Paulding County, OH

O&M Building				1
Demolish O&M Building and Foundation	1	Lump Sum	\$5,000.00	\$5,000
Demolish O&M Site Improvements (fences, etc)	1	Lump Sum	\$3,000.00	\$3,000
Haul Concrete (O&M Building Foundation)	372	Cubic Yards	\$18.00	\$6,700
Crush Concrete (O&M Building Foundation)	372	Cubic Yards	\$17.00	\$6,328
Disposal of Crushed Concrete from O&M Building Foundation	372	Cubic Yards	\$10.00	\$3,720
Cap and Abandon Well	1	Lump Sum	\$1,000.00	\$1,000
Remove & Restore Septic and Drainfield area	1	Lump Sum	\$3,000.00	\$3,000
Disposal of O&M Building Demolition and Removed Site Improvements	1	Lump Sum	\$2,500.00	\$2,500
Remove and Load Gravel Surfacing of O&M Site	2,233	Cubic Yards	\$2.37	\$5,287
Haul Gravel Removed from O&M Site	2,233	Cubic Yards	\$12.28	\$27,428
Disposal of Gravel from O&M Site	2,233	Cubic Yards	\$0.00	\$0
Decompact O&M Building Site	1	Lump Sum	\$865.10	\$865
Grade O&M Building Site	1	Lump Sum	\$1,495.34	\$1,495
Erosion and Sediment Control at O&M Building Site	1	Lump Sum	\$1,212.00	\$1,212
Topsoil and Revegetation at O&M Building Site	2	Acres	\$3,316.67	\$6,832
Subtotal O&M Building				\$74,367
Public Roads Restoration	11.6	Miles	\$34,000.00	\$392,803
Total Direct Costs				\$3,159,316
Contingency (10%)				\$315,932
Total Demolition Costs				\$3,475,300
Cost Per Turbine				\$151,100.00
Crop Loss	11.5	Acres	\$500.00	\$5,750
Total Cost				\$3,481,100
Cost Per Turbine				\$151,400.00

Salvage/Recycle/Resale (For Reference Only)

Salvage/Recycle				
Turbine Towers (Structural Steel)	8,571	Tons	\$307.50	\$2,635,649
Turbine Nacelles (Structural Steel)	2,434	Tons	\$307.50	\$748,394
Met Towers (Structural Steel)	8.0	Tons	\$307.50	\$2,474
Substation (Structural Steel)	35.0	Tons	\$307.50	\$10,763
Substation Ground Grid (Copper)	13,060	Pounds	\$3.07	\$40,062
Turbine Generators	349,601	Pounds	\$0.31	\$107,502
Aluminum Electrical Conductor (Supported)	973	Pounds	\$0.31	\$299
Transformers (copper windings)	312,666	Pounds	\$0.35	\$107,870
Transformer (Steel)	94	Tons	\$307.50	\$29,023
Transformers (oil)	23,141	Gallons	\$0.70	\$16,199
Subtotal Salvage				\$3,698,300

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Case No(s). 20-0417-EL-BGN

Summary: Response Supplement to Fifth Data Request from Staff of the OPSB electronically filed by Christine M.T. Pirik on behalf of Grover Hill Wind, LLC