

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)

**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) | | | | |
| 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 Slavage | | | | \$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