

## 4906-17-03      **Project Description and Schedule**

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### **(A) PROPOSED FACILITY DESCRIPTION**

#### **(1) Project Description**

##### **(a) Types of Turbines**

No text changes have occurred in this section of the Blue Creek Application approved by OPSB for a Certificate of Environmental Compatibility and Public Need on August 23, 2010.

##### **(b) Land Area Requirements**

No text changes have occurred in this section of the Blue Creek Application approved by OPSB for a Certificate of Environmental Compatibility and Public Need on August 23, 2010, except for the following that should replace the narrative in the December 21, 2009 OPSB Application [Application, 3-2]:

- The Applicant has identified specific locations for eight additional turbines and other related Facility components within this Amendment. The Facility will have up to 175 turbines for a maximum potential output of 350 MW.
- As depicted in Table A3-2, the total construction impact area (including turbine construction area, access roads, collection lines, substations, temporary staging and construction laydown areas, O&M building, permanent met towers, and a SODAR facility) would be 1,484.2 acres. The permanent impact of the Facility would be significantly less (approximately 166.3 acres). The Blue Creek Application approved by OPSB for a Certificate of Environmental Compatibility and Public Need on August 23, 2010 identified 1,264.4 acres and 233.0 acres respectively.

TABLE A3-2 [REPLACES TABLE 3.2, APPLICATION, 3-3]

Anticipated Land Requirements for Construction and Operation of the Blue Creek Wind Farm

Facility Component	Assumptions	Original 152 Turbines		Additional 8 Turbines		Total 160 Turbines	
		Temporary <sup>4</sup>	Permanent	Temporary	Permanent	Temporary <sup>4</sup>	Permanent
Wind Turbines	175-foot radius for construction limits and 34-foot diameter permanent gravel pad for each turbine (8-foot ring around foundation turbine)	335.7 acres	3.2 acres	17.7 acres	0.2 acres	353.4 acres	3.4 acres
Access Roads	100-foot wide construction limits <sup>1</sup> ; 16-foot wide permanent roadway, 10-foot compacted shoulders during construction on each side for a total wide of approximately 36 feet	40.2 miles		2.7 miles		42.9 miles	
		486.0 acres	78.8 acres	33.2 acres	5.2 acres	519.2 acres	84.0 acres
Crane Path	50-foot wide construction corridor <sup>2</sup> ; No permanent impacts	507.8 acres	Zero	9.5 acres	Zero	517.3 acres	Zero
Underground Collection Lines (34.5 kV)	Temporary impacts for collector lines: 1 collector = 20 feet, 2 collectors = 30 feet, 3 collectors = 40 feet No impact for permanent disturbance	94.2 miles		3.5 miles		97.7 miles	
		228.0 acres	Zero	6.2 acres	Zero	234.2 acres	Zero
Aboveground Collection Lines (34.5 kV)	50-foot wide construction corridor; 50-foot wide permanent clearing corridor	47.5 acres	47.5 acres	-----	-----	47.5 acres	47.5 acres
Aboveground Collection Lines (115 kV)		10.6 acres	10.6 acres	-----	-----	10.6 acres	10.6 acres
Interconnection Substation	610-foot x 345-foot area for the interconnection pad	5.0 acres	5.0 acres	-----	-----	5.0 acres	5.0 acres
Collection Substation	610-foot x 575-foot area for the collector pad and perimeter grading	8.0 acres	8.0 acres	-----	-----	8.0 acres	8.0 acres
Operations and Maintenance Building	Approximately 610-foot x 380-foot area for building, lay down and septic system and associated grading area	5.3 acres	5.3 acres	-----	-----	5.3 acres	5.3 acres
Collection Substation (Taylor Road)	330-foot x 330-foot area for the substation pad and perimeter grading	2.5 acres	2.5 acres	-----	-----	2.5 acres	2.5 acres

TABLE A3-2 [REPLACES TABLE 3.2, APPLICATION, 3-3]

Anticipated Land Requirements for Construction and Operation of the Blue Creek Wind Farm

Facility Component	Assumptions	Original 152 Turbines		Additional 8 Turbines		Total 160 Turbines	
		Temporary <sup>4</sup>	Permanent	Temporary	Permanent	Temporary <sup>4</sup>	Permanent
Staging and Construction Laydown Area	2.0 acres west of Richey Road, 20.0 acres east of Richey Road	22.0 acres	Zero	-----	-----	22.0 acres	Zero
Two Permanent Metrological Towers	320-foot x 320-foot construction limits: 16-foot diameter permanent pad	4.7 acres	0.0 acres <sup>3</sup>	-----	-----	4.7 acres	0.0 acres <sup>3</sup>
Total Facility Impact		1417.6 acres <sup>4</sup>	160.9 acres	66.6 acres	5.4 acres	1484.2 acres <sup>4</sup>	166.3 acres

- 1 Access road construction corridor varies in width in certain areas to protect wetlands/waterbodies
- 2 Corridor varies in width in certain locations, for crane breakdowns, OH power crossings and in other instances to accommodate efficient construction practices
- 3 Actual impact value for the permanent met tower is 0.01 acres, however for consistency in rounding the impact is illustrated as 0.0 acres
- 4 The Temporary Total Facility Impact is not based on the sum of the temporary disturbance column. This is due to the design efficiencies associated with the project; for example, where collection lines and crane paths are within the same construction corridor or within the access road corridor. The Facility Total Impact has been calculated as the overall construction limits for the entire site, considering these efficiencies.

**(i) Access Roads**

No text changes have occurred in this section of the Blue Creek Application approved by OPSB for a Certificate of Environmental Compatibility and Public Need on August 23, 2010, except for the following [Application, 3-4]:

- The facility would utilize 42.9 miles of access roads. The access road and adjacent cleared areas would be approximately 36 feet wide during construction of the Facility. The post-construction access road width would be up to 20 feet wide (including the 16-foot wide access road and 4-foot wide area for stormwater drainage). The Blue Creek Application approved by OPSB for a Certificate of Environmental Compatibility and Public Need on August 23, 2010, identified 41.5 miles.

**(ii) Temporary Staging and Construction Laydown Area**

No text changes have occurred in this section of the Blue Creek Application approved by OPSB for a Certificate of Environmental Compatibility and Public Need on August 23, 2010.

**(iii) Operation and Maintenance Building**

No text changes have occurred in this section of the Blue Creek Application approved by OPSB for a Certificate of Environmental Compatibility and Public Need on August 23, 2010.

**(iv) Temporary Concrete Batch Plant**

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section, except for the following would be added [Application, 3-6]:

- The Applicant's General Contractor will purchase all concrete from a local supplier and does not intend on constructing an onsite temporary concrete batch plant. In the March 31, 2010 Supplement, the Applicant was considering constructing a temporary batch plant at one of two locations.

**(2) Description of Equipment**

No text changes have occurred in this section of the Blue Creek Application approved by OPSB for a Certificate of Environmental Compatibility and Public Need on August 23, 2010.

**(a) Wind Energy Turbines**

No text changes have occurred in this section of the Blue Creek Application approved by OPSB for a Certificate of Environmental Compatibility and Public Need on August 23, 2010.

**(3) Description of New Transmission Lines**

No text changes have occurred in this section of the Blue Creek Application approved by OPSB for a Certificate of Environmental Compatibility and Public Need on August 23, 2010, except the following [Application, 3-7]:

- The Facility would include 97.7 miles of underground collection lines and 7.8 miles of aboveground collection lines (rated at 34.5 kV) that would tie into two smaller collector substations. The Blue Creek Application approved by OPSB for a Certificate of Environmental Compatibility and Public Need on August 23, 2010 identified 103.2 and 5.4 miles, respectively.

- Approximately 1.8 miles of 115 kV aboveground collection lines would connect one collector substation to the 345 kV Interconnection Substation. The Blue Creek Application approved by OPSB for a Certificate of Environmental Compatibility and Public Need on August 23, 2010 identified 7.0 miles connecting to two collector substations.

#### **(4) Description of New Substations**

No text changes have occurred in this section of the Blue Creek Application approved by OPSB for a Certificate of Environmental Compatibility and Public Need on August 23, 2010, except the following to be added at the end of this section [Application, 3-9]:

- The Applicant has been able to reduce the number of collector substations (from two collector substations to one collector substation) required through electrical system layout efficiencies. The proposed voltage transmission process will require only one collector substation that connects to the Project collection substation. In turn, the Project collection substation connects to the interconnection substation.

#### **(5) Description of Met Tower [Renumbered, [Application, 3-9]**

No text changes have occurred in this section of the Blue Creek Application approved by OPSB for a Certificate of Environmental Compatibility and Public Need on August 23, 2010.

#### **(6) Description of SODAR [Renumbered [Application, 3-9]:**

No text changes have occurred in this section of the Blue Creek Application approved by OPSB for a Certificate of Environmental Compatibility and Public Need on August 23, 2010.

**(B) DETAILED PROJECT SCHEDULE****(1) Project Schedule**

No text changes have occurred in this section of the Blue Creek Application approved by OPSB for a Certificate of Environmental Compatibility and Public Need on August 23, 2010, except the following that would replace the last five sentences [Application, 3-10]:

- OPSB issued a certificate for the Blue Creek Wind Farm on August 23, 2010.
- The Applicant will build the Facility, including the eight turbines covered by this Amendment, in one phase. The Facility will no longer be built in two phases as previously indicated in the Blue Creek Application approved by OPSB for a Certificate of Environmental Compatibility and Public Need on August 23, 2010. The Applicant will place the facility in service beginning in December 2011 with full operation of the Facility by March 2012. Figure 3-2 shows the anticipated Facility schedule.

**(2) Delays**

No text changes have occurred in this section of the Blue Creek Application approved by OPSB for a Certificate of Environmental Compatibility and Public Need on August 23, 2010.