

4906-17-07 Environmental Data

(A) GENERAL [APPLICATION, 7-1]

This section provides environmental data regarding air, water, and solid waste in terms of site conditions, potential impacts from the Facility and proposed mitigation measures. Unlike traditional power plants that combust fossil fuel to generate electricity, the proposed Facility will not emit air pollutants, require water for cooling purposes, or require process wastewater to be discharged from the Facility. In addition, the Facility will not produce any solid combustion wastes as a by-product of its energy production process. Therefore, the Applicant's proposed Facility will avoid major impacts associated with decreased air quality, water consumption, thermal pollution and ash landfills.

As part of the Facility, the Applicant is evaluating the option of *purchasing concrete from a local supplier or* constructing a temporary concrete batch plant for producing concrete required during construction. *Two locations are being evaluated for siting the temporary batch plant: (1) a 20-acre tract in the southeastern portion of the Project area, adjacent to the O&M building, or (2) the Stoneco aggregate quarry property (Scott Quarry) located near Scott, Ohio.*

(B) AIR

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(1) Preconstruction

(a) Ambient Air Quality

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(b) Applicable State/Federal Air Quality Regulations

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(c) List of Required Permits

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(d) Compliance Plans

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(i) (d)(1) Concrete Batch Plant Compliance

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

a) Operational Restrictions

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

b) Compliance with Operational Restrictions- Plant Design

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

c) Emission Limits

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

d) Compliance with Emission Limits – Plant Design and Air Pollution Control Equipment

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

e) Visible Emissions Requirements

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

f) Compliance with Visible Emission Requirements – Plant Design and Operating Procedures

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

g) Compliance Monitoring and Testing

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(e) Batch Plant Monitoring, Recordkeeping, and Reporting

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(i) (d)(2) Unpaved Roadways and Parking Areas Compliance

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

a) Emission Limits

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

b) Compliance with Emission Limits – Plant Design

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

c) Visible Emissions Requirements

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

d) Compliance with Visible Emission Requirements – Operating Procedures

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

e) Compliance Monitoring and Testing

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(ii) Unpaved Roads Monitoring, Recordkeeping, and Reporting

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(2) Construction

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(3) Operation

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(C) WATER

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(1) Surface Water

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(2) Groundwater

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(3) Preconstruction

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(4) Construction

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(a) Permits

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section, except for the following:

- The Applicant would like to maintain its options for wastewater handling at the proposed batch plant facility. All discharges will be made in accordance with federal, state and local permits and approvals identified in the December 21, 2009 Application. [Application, 7-20]

(b) Aquatic Discharges

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section, except for the following: [Application, 7-21]

- During construction, approximately 1,264.4 acres will be disturbed in the total 40,500-acre Project area. The December 21, 2009 text identified 793 acres being disturbed.
- When constructed, approximately 223.0 acres of impervious surface will be covered by the Facility, including turbine foundations, access roads, substations, and an O&M building footprint. The December 21, 2009 text identified 237 acres being disturbed.

(c) Mitigation Plans

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(d) Changes in Flow Patterns and Erosion

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(5) Operation

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(a) Quantitative Flow Diagram

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(b) Conservation Practices

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(D) SOLID WASTE

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(1) Preconstruction**(a) Debris and Solid Waste**

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(2) Construction**(a) Debris and Solid Waste Generated**

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section, except for the following:

- Facility construction would require clearing or disturbance of 1,264.4 acres of vegetation, 19.6 acres of which is forested. The December 21, 2009 text identified 793.2 and 4.7 acres respectively. [Application, 7-25]

(b) Storage and Disposal Methods

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(3) Operations

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(a) Solid Wastes Generated

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(b) Treatment, Transport, and Disposal

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.

(4) Licenses and Permits

No text changes from the December 21, 2009 Blue Creek OPSB Application text have occurred in this section.