BEFORE THE OHIO POWER SITING BOARD

In the Matter of the Application of)	
Carroll County Energy, LLC for an)	
Amendment to Its Certificate of)	Case No. 14-2085-EL-BGA
Environmental Compatibility and Public)	
Need to Construct an Electric Generation)	
Facility.)	

Application to Amend the
Carroll County Energy Certificate
Granted April 28, 2014 in
Case No. 13-1752-EL-BGN

November 26, 2014

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ACRONYMNS AND ABBREVIATIONS

the Additional	an approximately 42-acre area of disturbance located north of the		
Laydown Area	Facility Site encompassing an access road and temporary laydown		
Layuowii Alea	area for use during construction of Carroll County Energy		
AEP	American Electric Power		
Amendment	Application to Amend the Carroll County Energy LLC Certificate		
Amendment	granted April 28, 2014		
the Applicant			
the Applicant Application	Carroll County Energy LLC Ohio Power Siting Board Application submitted for Carroll		
Application	Ohio Power Siting Board Application submitted for Carroll		
	County Energy for a Certificate of Environmental Compatibility and Public Need		
BkC			
	Berks shaly silt loam, 8 to 15 percent slopes		
BkD	Berks shaly silt loam, 15 to 25 percent slopes Clean Air Interstate Rule		
CAIR			
CCES	Carroll County Environmental Service		
the Certificate	Certificate of Environmental Compatibility and Public Need to		
	Construct an Electric Generation Facility in Case No. 13-1752-		
C D	EL-BGN issued on April 28, 2014		
CoB	Coshocton-Keene silt loams, 3 to 8 percent slopes		
the Construction	an approximately 23-acre property located off Route 9 and		
Laydown Area	adjacent to the Facility Site that is proposed for temporary use		
CCAPD	during construction of Carroll County Energy		
CSAPR	Cross-State Air Pollution Rule		
CTG	combustion turbine generator		
CuB	Culleoka silt loam, 3 to 8 percent slopes		
dBA	A-weighted decibel, corresponding to the sensitivity range for		
	human hearing		
the Facility	Carroll County Energy project		
the Facility Site	the 77-acre property proposed as the location of Carroll County		
the racinty site	Energy		
the Facility	a 3-acre portion of the Facility Site dedicated to the electrical		
Switchyard	interconnection between the Facility and the electrical		
Switchyard	transmission line		
GE	General Electric		
GfC	Glenford silt loam, 8 to 15 percent slopes, eroded		
GuC2			
HRSG	Guernsey silty clay loam, 8 to 15 percent slopes, eroded		
IES	heat recovery steam generator		
	ion exchange demineralizing system		
Laydown Work Area	The 20-acre portion of the Additional Laydown Area that will be		
LbB	utilized for temporary parking and construction laydown purposes		
Ohio EPA	Library Variant silt loam, 3 to 8 percent slopes Ohio Environmental Protection Agency		
	Ohio Environmental Protection Agency		
OPSB	Ohio Power Siting Board		

NPDES	National Pollutant Discharge Elimination System			
POTW	Publicly Owned Treatment Works			
RO	reverse osmosis			
SWPPP	Stormwater Pollution Prevention Plan			
USACE	United States Army Corps of Engineers			
USEPA	United States Environmental Protection Agency			
WmC	Westmoreland-Coshocton silt loams, 8 to 15 percent slopes			
WmD	Westmoreland-Coshocton silt loams, 15 to 25 percent slopes			

Introduction and Overview

Carroll County Energy LLC (the Applicant) is certified to construct Carroll County Energy (the Facility), a natural gas-fired combined-cycle generating facility, including its associated on-site electrical switchyard (Facility Switchyard), to be located in Carroll County, Ohio. The original Application for a Certificate of Environmental Compatibility and Public Need (Application) was filed on November 15, 2013 and included an approximately 77-acre property (the Facility Site) located entirely within Washington Township, Carroll County, Ohio. Access to the Facility Site is off of State Route 9, across an approximately 23-acre parcel proposed for temporary use during construction (the Construction Laydown Area). The Ohio Power Siting Board (OPSB) issued an Opinion, Order and Certificate in Case No. 13-1752-EL-BGN on April 28, 2014 (the Certificate).

Through this petition, hereinafter referred to as the Amendment, the Applicant is proposing to amend the Certificate as follows:

- (1) Addition of a 20-acre temporary construction area and 2.5-acre temporary stockpile area (requiring a total 42-acre limit of disturbance associated with access and grading for this work space) located directly north of the Facility Site, to be used during construction for temporary parking and construction laydown uses such as storage of bulk materials and early deliveries of materials (the Additional Laydown Area).
- (2) Addition of an option to utilize an ion exchange demineralizing system (IES) to replace the reverse osmosis (RO) demineralizing system which, along with other water-conserving measures, has the potential to reduce water use and minimize wastewater discharge.

(3) Re-orientation of the Facility Switchyard and other minor internal electrical system changes at the request of American Electric Power (AEP), the entity responsible for transmitting the electricity generated by the Facility to the Ohio power grid.

The purpose of the Amendment is to address these changes in the Facility design outlined in the original Application and approved by the Certificate. Since the filing of the original Application, additional information has come to the Applicant's attention that has led to the incorporation of these changes. Any change in impact as a result of the proposed changes is reflected in this Amendment. Further information regarding the Facility can be found in the original Application and in the supplemental filings currently on the case docket. Additional information regarding the proposed modifications is provided below. *Additional Laydown Area*

The Certificate includes a 23-acre Construction Laydown Area outlined in the original application, located between the Facility Site and State Route 9. As design has progressed, it has been determined that additional space is required during the construction phase. The Additional Laydown Area (shown in Figure 01-1) will be used for temporary parking and construction laydown uses such as storage of bulk materials and early deliveries of materials (e.g., piping and structural steel).

The Additional Laydown Area limits of disturbance for access and grading encompass 42 acres of land, located directly north of the 77-acre Facility Site and owned by the same landowner from whom the Facility Site will be purchased. Like the Facility Site, the Additional Laydown Area is in active agricultural use, surrounded by wooded area. An existing road provides access to the site via a culvert across an intermittent stream. The Additional Laydown Area was included in various studies conducted as part of the

original Application, including the Wetland Delineation and Stream Identification Report,

Threatened and Endangered Species Agency Correspondence, and the Phase I

Archaeological Surveys, provided in Appendix A, B, and C, respectively.

Access to the Additional Laydown Area will not require travel on public roads. An access point off of the Facility driveway will be developed that will connect to, and generally follow, an existing road. The existing road was a former farm road that has subsequently been improved as a gravel access to the existing Rex Energy operations located just off of Route 9 immediately north of the Facility Site (which was constructed after filing of the Application). A security station is located prior to reaching the Rex Energy facility. From that point, the access will extend around the Rex Energy operations, utilizing the existing farm road, to the Additional Laydown Area. The use of this existing road avoids wetland areas and additional tree clearing for access to the Additional Laydown Area. The existing road will require only minor improvements to accommodate construction traffic, and will avoid potential impact to delineated wetlands and streams by utilizing an existing culvert crossing.

The majority of the Additional Laydown Area that will be used for laydown purposes (Laydown Work Area) is currently used for active agriculture; additional grading and clearing of the surrounding wooded area is also required to adjust elevations to a less than 3.5 percent grade and to allow for appropriate stabilization of side slopes. The Additional Laydown Area could not be positioned any further north to minimize these grading needs, due to the presence of existing utility easements along the northern boundary of the Additional Laydown Area. Habitat tree clearing will be restricted to winter months, in order to avoid potential disturbance to summer roosting habitat

associated with the Indiana bat, and a minimum 20-foot riparian buffer will be maintained around surrounding intermittent streams associated with Pipes Fork. Table A-1 outlines the characteristics of the Additional Laydown Area.

Table A-1 Additional Laydown Area

Additional Laydown Area Element	Area of Limits of Disturbance	Existing Use
	(acres)	
Access Road	4.5	Existing road and agricultural field
Stockpile Area	2.5	Agricultural field
Laydown Work Area	20	18 acres agricultural field; 2 acres wooded
Grading/Stormwater	15	5 acres agricultural field; 10 acres wooded.
Management		
Total	42	

Upon completion of construction, the Additional Laydown Area will be restored to agricultural production in accordance with landowner specifications.

Water and Wastewater Reduction – Incorporation of the IES Option

The Facility as approved in the Certificate incorporated substantial water-reduction measures, including the use of air cooling and internal recycling of water flows. Under the prior configuration, average daily water demand for the Facility was on the order of 300,000 gallons, to be provided to the Facility by an existing, regulated water supplier. The low volume of water demand resulted in similarly low wastewater discharge volumes, a Facility average daily discharge on the order of 212,000 gallons, anticipated to be discharged to either the existing BTM Sewer District (located in and serving the Village of Malvern, and operated by Carroll County Environmental Service [CCES]) or the existing Carrollton publicly owned treatment works (POTW).

As Facility design has progressed, additional water-saving measures have been considered. This Amendment reflects the option to utilize an IES design in place of the

RO system which, along with other water-conserving measures, has the potential to reduce water use and minimize wastewater discharge.

This will be accomplished using two separate mobile water treatment units (one treating water in advance of its use, and one treating wastewater to allow its reuse), with regeneration off-site that will include appropriate disposal of the resulting filtered solids. The permanent equipment will consist of parking spaces for several trailers, pumps to circulate the water through the trailers, and piping manifolds with hoses to connect the trailers to the permanent piping. On-going monitoring for quality and function are incorporated. The proposed system is illustrated in Figure 02-3 and Figures 02-5a and 02-5b. Through the use of this IES design, water will be returned and reused until the remaining waste product will consist of filtered solids retained in the mobile treatment trailers. When each mobile unit requires regeneration (approximately every 7 days for the water treatment unit and every 28 days for the wastewater treatment unit), the vendor will deliver a replacement unit and transport the spent unit to its regeneration facility.

In addition, to the IES design, fin fan coolers have been incorporated in the heat recovery steam generator (HRSG) instead of using quench water, further conserving and reducing water demand.

If the IES design is utilized, average daily water demand associated with the Facility will be on the order of 90,000 gallons. The use of an IES design and the associated water conservation measures substantially reduces water demand and eliminates process wastewater discharge, providing additional benefit from the Facility. Should the IES design be selected, sanitary wastewater from the Facility will either be stored in an onsite

Carroll County Energy Case No. 14-2085-EL-BGA holding tank, and periodically trucked offsite for disposal at a nearby POTW, or disposed of via an onsite septic system, pending final design.

It is important to note that this Application seeks to add the IES design as an option only, allowing the Applicant to maintain the already-approved water treatment design in its Certificate in the event the IES design is not used or is discontinued during the life of the Facility.

Switchyard Adjustment

The equipment located within the Facility Switchyard will remain as described in the original Application. However, as design has progressed, AEP has determined that Facility reliability would be enhanced by reorienting the Facility Switchyard. In addition, minor design adjustments by AEP are associated with changing to a breaker-and-a-half configuration instead of a ring bus and a single lead connecting the Facility to the Facility Switchyard. With this change in orientation, adjustments to grading and the specific placement of stormwater features are required.

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4906-13-01 Project Summary and Facility Overview

(A) PROJECT SUMMARY AND OVERVIEW

The information provided on page 1 of the original Application continues to apply

to the Amendment and will not change as a result of this Amendment.

(1) General Purpose of the Facility

The information provided on page 1 of the original Application continues to apply

to the Amendment and will not change as a result of this Amendment.

(2) Description of the Facility

For a summary of this Amendment, see the Introduction and Overview above. The

general project information contained in the original Application at pages 1 to 4 applies to

the Amendment and will not change as a result of this Amendment.

(3) Site Selection Process

The Additional Laydown Area proposed in this Amendment is proximate to the

Facility Site, located adjacent to the north, and will not require additional travel on public

roadways. Thus, the information provided at pages 4 to 5 of the original Application

continues to apply to the Amendment and will not change as a result of this Amendment.

(4) Principal Environmental and Socioeconomic Considerations

The Applicant reviewed the impacts of the proposed Facility's construction and

operation on the environment and on the community based upon the addition of a 42-acre

limit of disturbance for the Additional Laydown Area, incorporation of the option for an

IES design and other water-conserving measures, and adjusted Facility Switchyard. Topics

reviewed include water resources, wetlands and streams, cultural resources, threatened and

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endangered species, noise, solid waste, and public services. No significant changes have

occurred from previously assessed conditions; the Facility will continue to be compatible

with and protective of environmental and community resources.

(a) **Potential Construction Impacts**

The information provided at page 6 of the original Application continues to

apply to the Amendment.

Construction impacts have been minimized through the selection of a

property for the Additional Laydown Area that is located in proximity to the

Facility Site and was included in studies conducted in support of the original

Application. The proximity of the Additional Laydown Area to the Facility Site

allows for internal construction access and eliminates the need for construction

travel on public roadways. Facility construction impacts will continue to be

localized to the immediate surroundings.

Although the Additional Laydown Area is in active agricultural use, it is not

within a designated agricultural district; therefore, no impact to such areas is

anticipated to occur. Additionally, no impacts to cultural resources are anticipated.

The Additional Laydown Area was incorporated in the archaeological investigation

completed as part of the original Application. This evaluation was submitted to the

Ohio Historic Preservation Office in October 2013.

No additional work is proposed in wetlands or waterways. The proposed

access road for the Additional Laydown Area will utilize an existing culvert,

requiring no additional impact to waters of the United States. The access road

generally follows an existing road; no tree-clearing is required. On the Additional

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Laydown Area, however, additional tree-clearing and grading is required to

accommodate the proposed use. The limit of disturbance for the Additional

Laydown Area and access road will encompass 42 acres of land, with

approximately 12 acres of associated tree-clearing. As outlined in the Stormwater

Pollution Prevention Plan (SWPPP) for the Additional Laydown Area (Appendix

D), construction grading will direct stormwater toward the southeast, controlled

with applicable Best Management Practices and approved under the Ohio

Environmental Protection Agency (Ohio EPA) Construction General Permit.

No new construction area is associated with the IES design option or

Facility Switchyard adjustments. However, the reorientation will adjust the details

of grading and vegetative restoration in that location. Although the boundaries of

the previously proposed work area and clearing have not changed, the wooded area

that will remain permanently cleared will increase from 7 acres to 7.5 acres as a

result of the Facility Switchyard orientation (as shown in Figure 02-2). As shown

Appendix E, the reoriented Facility Switchyard requires an adjustment to one

stormwater basin.

Potential Operational Impacts (b)

The information provided at pages 8 to 9 of the original Application

continues to apply to the Amendment.

Following completion of construction, the Additional Laydown Area will

be restored to agricultural production in accordance with landowner specifications.

The IES, if incorporated into the design, will substantially reduce water

demand, which will continue to be provided to the Facility by an existing, regulated

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water supplier. The IES filtered solid by-product will be regenerated by the vendor,

with replacement units provided to the Facility approximately every 7 days for the

water treatment unit and every 28 days for the wastewater treatment unit.

If the IES design is selected, sanitary wastewater from the Facility will

either be stored in an onsite holding tank, and periodically trucked offsite for

disposal at a nearby POTW, or disposed of via an onsite septic system, pending

final design.

As noted above, applicable analyses have been updated to reflect the current

Facility refinements, including the IES design option. No significant change in

impact results from the Facility updates included in this amendment.

Project Schedule (5)

The information provided at page 9 of the original Application continues to apply

to the Amendment and will not change as a result of this Amendment.

Section 4906-13-01 **Carroll County Energy**

4906-13-02 Project Description and Schedule

(A) DETAILED DESCRIPTION OF PROPOSED GENERATION AND

ASSOCIATED FACILITIES

Figure 02-2 has been updated to incorporate the proposed Additional Laydown

Area and adjusted Facility Switchyard overlaid on an aerial photograph, with surrounding

road names and major Facility features; no material physical change is associated with the

IES design. The updated layout incorporating the Facility Switchyard adjustments and IES

design is provided in updated Figure 02-3.

(1) **Project Details**

(a) Generating Units

The information provided at pages 10 to 11 of the original Application

continues to apply to the Amendment and will not change as a result of this

Amendment.

(b) Land Area Requirements

As design has progressed, the construction contractor for the Applicant

identified a need for additional space during construction. The Additional

Laydown Area, located directly to the north of the Facility Site (Figure 02-2), was

selected to meet additional requirement for temporary construction laydown. Upon

completion of construction, the Additional Laydown Area will return to agricultural

production in accordance with landowner specifications.

The Additional Laydown Area will be used for temporary parking and

laydown uses such as storage of bulk materials and early deliveries of materials

(e.g., piping and structural steel).

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Other than the addition of the Additional Laydown Area, no other land area

changes are included in this Amendment and the information provided at page 11

of the original Application continues to apply.

(c) Fuel Quantity and Quality

The information provided at pages 11 to 12 of the original Application and

the Applicant's responses to the Staff's First Set of Data Requests, Nos. 4 and 5, in

Case No. 13-1752-EL-BGN continues to apply to the Amendment and will not

change as a result of this Amendment.

(d) Plant Emissions

The information provided at pages 12 to 14 of the original Application

continues to apply to the Amendment. Emissions from construction, consisting

mainly of relatively minor emissions from the construction equipment required for

site preparation, will extend to the Additional Laydown Area.

(e) Water Requirements

The information provided at pages 14 to 15 of the original Application

continues to apply to the Amendment. As described in this Amendment, the

Facility has also incorporated additional water-conservation measures into the

Facility, including an option to install an IES design that substantially reduces the

water requirements of the Facility. Water will continue to be supplied to the

Facility by an existing, regulated water supplier in the region.

If the IES design is selected, the Facility's updated maximum daily water

use will be on the order of 135,000 gallons, a significant reduction from the 400,000

gallons identified in the original Application. The Facility's updated average daily

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water use will be on the order of 90,000 gallons, as compared to the 300,000 gallons

identified in the Certificate. An updated water balance, including flow rates and

treatment equipment, for the Facility's IES option is provided in Figures 02-5a and

02-5b.

The updated maximum daily water use, shown on Figure 02-5b, reflects

operating the Facility at full load with full utilization of evaporative coolers on the

two combustion turbine generators (CTGs) and 100 percent duct firing of the

HRSG at an average ambient temperature of 100°F for a 24-hour period. The

Facility's updated average daily water use, also shown on Figure 02-5b, is

estimated based on operating the Facility at full load with full utilization of

evaporative cooling on the two CTGs and 100 percent duct firing of the HRSG at

an average ambient temperature of 59°F.

The incorporation of an IES design allows water to be recycled through the

process after being deionized, as well as filtering wastewater for reuse. The ability

to reuse wastewater greatly reduces the demand for water from the existing,

regulated water supplier and eliminates the need for any process wastewater

discharge. Note, the water system as initially certificated remains the maximum

impact case for water use and discharge.

(f) Water Discharge Requirements

The information provided in the original Application at pages 15 to 16

continues to apply to the Amendment because the IES design is an option to the

already-approved water treatment equipment. If the IES design is used for both

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cycle makeup water and wastewater treatment, the need for process wastewater

discharge may be eliminated.

If the IES design is selected, sanitary wastewater from the Facility will

either be stored in an onsite holding tank, and periodically trucked offsite for

disposal at a nearby POTW, or disposed of via an onsite septic system, pending

final design.

(g) Stormwater Management

The information provided at page 16 of the original Application continues

to apply to the Amendment and will not materially change as a result of this

Amendment. Similar measures will be incorporated for the Additional Laydown

Area, and the relocated Facility Switchyard will require adjustment to one

stormwater basin.

(2) Description of Major Equipment

Although the information provided at pages 16 to 20 of the original Application

continues to apply to the Amendment, the potential installation of an IES design and water

conservation measures included in this Amendment would result in the following changes:

Heat Recovery System Generator – a HRSG blowdown fin fan cooler will

be incorporated in lieu of quench water;

Demineralizer – Demineralized water will be created on-site at two points

in the water cycle: demineralized water will be created in the Demineralizer

System, used to feed the HRSG/steam cycle, combustion turbine wash, and

air-cooled condenser wash; and demineralized water will be created in the

Wastewater System, recycled into Facility processes.

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Wastewater System – Wastewater at the Facility will be generated solely by

sanitary sources. If the IES design is selected, sanitary wastewater from the

Facility will either be stored in an onsite holding tank, and periodically

trucked offsite for disposal at a nearby POTW, or disposed of via an onsite

septic system, pending final design. All other wastewater streams will be

in a closed-loop system, recycled through the process.

(3) Transmission Line Interconnect

The information provided at pages 20 to 21 of the original Application continues to

apply to the Amendment and will not materially change as a result of this Amendment.

Physical adjustments have been made to accommodate AEP's requirements for the

reoriented Facility Switchyard and the breaker-and-a-half configuration and single lead

connecting the Facility to the Facility Switchyard.

New Natural Gas Transmission Line (4)

The information provided at page 21 of the original Application and the Applicant's

responses to the Staff's First Set of Data Requests, No. 3, in Case No. 13-1752-EL-BGN

continues to apply to the Amendment and will not change as a result of this Amendment.

(B) DETAILED PROJECT SCHEDULE

(1) Schedule

The information provided at pages 21 to 22 of the original Application continues to

apply to the Amendment and will not change as a result of this Amendment. CCE is

preparing for Facility construction to commence in early spring of 2015 in order to meet

its energy market commitments.

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(2) Necessity to Maintain Schedule

The information provided at pages 22 to 23 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment. CCE is requesting expedited review of this Amendment to allow for adequate timing to complete tree clearing outside of the Indiana bat roosting season to support construction in spring 2015. If this cannot be achieved, delays in Facility construction could result, with associated penalties and loss of benefit to Ohio's ratepayers.

4906-13-03 Site Alternatives Analysis

(A) SITE SELECTION STUDY

The information provided at page 24 of the original Application continues to apply

to the Amendment and will not change as a result of this Amendment.

(1) Site Selection Process

(a) Description of Study Area

The information provided at pages 24 to 25 of the original Application

continues to apply to the Amendment and will not change as a result of this

Amendment.

(b) Study Area and Site Map

The information provided at page 26 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(c) Siting Criteria

The information provided at pages 26 to 27 of the original Application

continues to apply to the Amendment and will not change as a result of this

Amendment.

(d) Process for Identifying the Proposed Site

The information provided at pages 27 to 28 of the original Application

continues to apply to the Amendment and will not change as a result of this

Amendment.

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(e) Factors in Selecting the Proposed Site

The information provided at pages 29 to 32 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment.

(2) Constraint Map

The information provided at page 32 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment.

(B) SUMMARY TABLE OF EVALUATED SITES

The information provided at page 33 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment.

(C) ADDITIONAL SITE SELECTION STUDIES

The information provided at page 33 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment.

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(A) SITE

(1) Geography and Topography

The Additional Laydown Area consists of active agricultural land fringed by

woodlands and is characterized by gently rolling topography with elevations that range

between approximately 1,050 and 1,320 feet above mean sea level. The parcel drains

naturally in four directions, into unnamed tributaries of Pipes Fork. Elevations drop off

around the intermittent streams which lie along the southern and eastern boundary of the

Additional Laydown Area. Topography around these intermittent streams consists of

densely vegetated, moderately to steeply sloped terrain; no work is proposed in or

immediately proximate to those streams.

In order to accommodate the proposed use as temporary laydown for the Facility,

the 20-acre Laydown Work Area will be graded (with about 2 acres of wooded area

cleared). In addition, approximately 15 acres is required to provide for adequate grading

and stormwater management features associated with the Additional Laydown Area;

approximately 10 acres of wooded area will require clearing for this purpose. A minimum

20-foot buffer will be preserved between the clearing and grading activities and the existing

intermittent streams.

Since the Additional Laydown Area included in this Amendment is located directly

north of the Facility Site, the information provided at pages 34 to 36 of the original

Application continues to apply to the Amendment and will not change as a result of this

Amendment.

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(2) Aerial Photograph

Figure 02-2 has been updated to show the location of the proposed Additional

Laydown Area, the IES design, and reoriented Facility Switchyard in relation to surface

features.

(3) Site Mapping

Figure 02-2 has been updated to show the Additional Laydown Area, located

adjacent to the north of the Facility Site, laydown changes associated with the potential

IES design, and the reoriented Facility Switchyard elements. Due to the proximity of the

Additional Laydown Area to the Facility Site, and maintaining layout adjustments within

the original limits of disturbance, information provided at page 37 of the original

Application continues to apply to the Amendment and will not change as a result of this

Amendment.

(4) Geology and Seismology

(a) Geological Issues

The information provided at pages 37 to 39 of the original Application and

the Applicant's responses and supplemental responses to the Staff's First Set of

Data Requests, No. 2, in Case No. 13-1752-EL-BGN continues to apply to the

Amendment and will not change as a result of this Amendment.

(b) Soils and Soil Suitability

Figure 04-2 has been updated to incorporate the Additional Laydown Area,

located north of the Facility Site, and access corridor, connecting the main access

road which extends eastward off Route 9 to the Additional Laydown Area. Based

on review of the Soil Survey database for Carroll County, Ohio and the United

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States Department of Agriculture Soil Conservation Service Soil Survey of Carroll

County, Ohio, the soil units on the Additional Laydown Area are mapped as: Berks

shaly silt loam, 8 to 15 percent slopes (BkC) and 15 to 25 percent slopes (BkD);

Coshocton-Keene silt loams, 3 to 8 percent slopes (CoB); Culleoka silt loam, 3 to

8 percent slopes (CuB); Glenford silt loam, 8 to 15 percent slopes, eroded (GfC);

Guernsey silty clay loam, 8 to 15 percent slopes, eroded (GuC2); Library Variant

silt loam, 3 to 8 percent slopes (LbB); and Westmoreland-Coshocton silt loams, 8

to 15 percent slopes (WmC) and 15 to 25 percent slopes (WmD). These soils are

consistent with those within the Facility Site and Construction Laydown Area

included in the original Application, therefore, the information provided at pages

39 to 47 of the original Application and the Applicant's responses and supplemental

responses to the Staff's First Set of Data Requests, No. 2, in Case No. 13-1752-EL-

BGN continues to apply to the Amendment and will not change as a result of this

Amendment.

(5) Hydrology and Wind

(a) Characteristics of Directly Affected Waterbodies

The information provided at pages 47 to 48 of the original Application

continues to apply to the Amendment and will not change as a result of this

Amendment.

(b) Potential for Flooding or High Wind Conditions

The information provided at pages 48 to 49 of the original Application

continues to apply to the Amendment and will not change as a result of this

Amendment.

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(c) Aquifer Mapping

Figure 04-6 has been updated to incorporate the Additional Laydown Area.

Due to the proximity of the Additional Laydown Area, the information provided at

page 49 of the original Application continues to apply to the Amendment and will

not change as a result of this Amendment.

(B) LAYOUT AND CONSTRUCTION

The information provided at pages 50 to 51 of the original Application continues to

apply to the Amendment. Similar erosion and sediment controls will be established to

demarcate the limit of work on the Additional Laydown Area. In order to accommodate

the proposed use as temporary laydown for the Facility, the 20-acre Laydown Work Area

will be graded (with about 2 acres of wooded area cleared). In addition, approximately 15

acres is required to provide for adequate grading and stormwater management features

associated with the Additional Laydown Area; approximately 10 acres of wooded area will

require clearing for this purpose.

The reorientation of the Facility Switchyard, also requires 7.5 acres of existing trees

remain permanently cleared; this is 0.5 acre more than the original Facility Switchyard

orientation. The location and orientation of the Facility Switchyard is illustrated on Figure

02-2.

(1) Site Activities

(a) Test Borings

The information provided at page 51 of the original Application and the

Applicant's responses and supplemental responses to the Staff's First Set of Data

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Requests, No. 2, in Case No. 13-1752-EL-BGN continues to apply to the

Amendment and will not change as a result of this Amendment.

Removal of Vegetation

Reorientation of the Facility Switchyard requires 7.5 acres of permanent

clearing, 0.5 acre more than outlined in the original Application. Facility use of

the Construction Laydown Area and Additional Laydown Area is only temporary.

Upon construction completion, these parcels will be restored to agricultural

production, in accordance with landowner specifications.

(c) **Grading and Drainage**

The information provided at page 52 of the original Application continues

to apply to the Amendment and will not materially change as a result of this

Amendment. Due to the reorientation of the Facility Switchyard, the specific

placement of a stormwater basin has been adjusted (Figure 2-3). Grading and

drainage details are provided in the SWPPPs for the Additional Laydown Area and

the Facility Site, Appendix D and E, respectively.

(d) Access Roads

The information provided at page 52 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

An additional access road will be provided to connect the Facility Site to

the Laydown Work Area, which will generally follow an existing road. Similar to

the existing Rex access road, the balance of the access to the Additional Laydown

Area will be gravel surface; no tree-clearing or wetland impacts will be required.

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The access road will utilize an existing culvert crossing of an intermittent stream

channel.

Removal and Disposal of Debris

The information provided at page 52 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(f)Post-Construction Reclamation

The Additional Laydown Area, currently in active agricultural production,

is expected to return to agricultural production post-construction. Restoration

activities will be in accordance with landowner specifications. The information

provided at page 52 of the original Application continues to apply to the

Amendment and will not change as a result of this Amendment.

(2) Layout

The information provided at page 53 of the original Application continues to apply

to the Amendment and will not materially change as a result of this Amendment. Figure

02-2 illustrates the adjustments associated with the incorporation of an IES design and the

reoriented Facility Switchyard and bus bar, which remain within the previously-identified

limits of disturbance for the Facility.

(3) Structures

> (a) **Dimensions**

> > The information provided at pages 53 to 54 of the original Application

continues to apply to the Amendment and will not change as a result of this

Amendment.

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(b) **Construction Materials**

The information provided at page 54 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(c) **Color and Texture**

The information provided at page 54 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(d) Pictorial Sketches

The information provided at page 55 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

Unusual Features (e)

The information provided at page 55 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(4) Plans for Construction

The information provided at page 55 of the original Application continues to apply

to the Amendment and will not change as a result of this Amendment. The Additional

Laydown Area will allow for temporary parking and laydown use such as storage of bulk

materials and early deliveries of materials (e.g., piping and structural steel). The proposed

access road will accommodate internal construction travel and eliminate the need for

additional construction traffic on public roadways.

(5) Future Plans

The information provided at page 55 of the original Application continues to apply

to the Amendment and will not change as a result of this Amendment.

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(C) EQUIPMENT

(1) Description of Major Generating Equipment

The information provided at page 56 of the original Application continues to apply

to the Amendment and will not change as a result of this Amendment.

(a) Combustion Turbine Generators

The information provided at page 56 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(b) Steam Turbine Generator

The information provided at page 57 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(c) Heat Recovery Steam Generators

With the exception of incorporating a fin fan cooler in lieu of quench water,

the information provided at page 57 of the original Application continues to apply

to the Amendment and will not change as a result of this Amendment.

(d) Natural Gas System

The information provided at page 57 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(e) Steam System

The information provided at page 58 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

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(f) Condensate System

The information provided at page 58 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(g) Feedwater System

The information provided at page 58 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(h) Air Cooled Condenser

The information provided at page 59 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(i) Closed Loop Auxiliary/Cooling Water System

The information provided at page 59 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

Fire Protection System (i)

The information provided at page 59 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(k) Water System

Based on the water conservation measures outlined in this Amendment,

including the IES option, the volume of water demand may be substantially reduced

from a daily average of 300,000 gallons to a daily average of 90,000 gallons. If

the IES design is selected, the limited Facility water needs will continue to be

supplied by an existing, regulated water supplier in the region. Updated water

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balances depicting Facility uses and flows are shown in Figures 02-5a and 02-5b

for the IES option.

Demineralizer

The information provided at page 60 of the original Application applies to

this Amendment and will only change if the IES design is selected. If the IES

design for cycle makeup water is incorporated into the Facility design, the

demineralizer system will consist of cation, anion, and mixed bed processes located

in a mobile trailer. Demineralized water will be stored in a tank prior to supplying

the HRSG and Steam Cycle, as well as combustion turbine and air-cooled

condenser wash water.

(m) Wastewater System

The information provided at page 60 to 61 of the original Application

applies to this Amendment and will only change if the IES design is selected. Based

on the incorporation of an IES design for both cycle makeup water and wastewater

treatment, the Facility's process wastewater discharge would be eliminated. The

mobile treatment units will be replaced periodically, with the spent unit brought by

the vendor to its facility for regeneration.

Due to the reoriented Facility Switchyard, the specific placement of one

stormwater basin has been adjusted. This change will not result in a material

change, as stormwater will continue to be routed to on-site stormwater collection

ponds to maintain acceptable rates of runoff.

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(n) Backup Generator

The information provided at page 61 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(o) Transformers and Switchyard

Although the Facility Switchyard will be reoriented, the equipment will

remain as described in the original application. In addition, minor design changes

by AEP are associated with changing to a breaker-and-a-half configuration instead

of a ring bus and a single lead connecting the Facility to the Facility Switchyard.

The adjustment to the Facility Switchyard will require alterations to grading,

clearing, and relocation of the stormwater basin. The reoriented Facility

Switchyard requires 0.5 acre of permanent clearing and gradings more than outlined

in the original Application. Figure 02-3 illustrates the modifications. The adjusted

location of a stormwater basin does not materially change the information provided

at pages 61 to 62 of the original Application.

(2) Emissions Control and Safety Equipment

(a) Flue Gas Emissions Control

The information provided at pages 62 to 63 of the original Application

continues to apply to the Amendment and will not change as a result of this

Amendment.

(b) Equipment Reliability and Efficiency Reduction

The information provided at page 63 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

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(c) Effluent Control Equipment

The information provided at pages 63 to 64 of the original Application

continues to apply to the Amendment and will not change as a result of this

Amendment.

(d) Public Safety Equipment

The information provided at pages 64 to 66 of the original Application

continues to apply to the Amendment and will not change as a result of this

Amendment.

(3) Other Major Equipment

(a) Combustion Turbine Air Inlet Coolers

The information provided at pages 66 to 67 of the original Application

continues to apply to the Amendment and will not change as a result of this

Amendment.

(b) Auxiliary Boiler

The information provided at page 67 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(c) Natural Gas Heaters

The information provided at page 67 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(d) Oil/Water Separator

The information provided at page 67 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

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(D) REGIONAL ELECTRIC POWER SYSTEM

The information provided at pages 67 to 68 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment.

(A) OWNERSHIP

The information provided at page 69 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment.

(B) CAPITAL AND INTANGIBLE COSTS

(1) Estimated Capital and Intangible Costs

The information provided at page 69 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment.

(2) Capital Cost Comparison

The information provided at page 70 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment.

(3) Present Worth and Annualized Capital Costs of Alternatives

The information provided at page 70 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment.

(C) OPERATION AND MAINTENANCE EXPENSES

(1) Estimated Annual Operation and Maintenance Expenses

(a) Fixed Operation and Maintenance

The information provided at page 70 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment.

(b) Variable Operation and Maintenance

The information provided at page 71 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment.

(c) Fuel Operating Expense

The information provided at page 71 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(2) Operation and Maintenance Expenses Comparison

The information provided at pages 71 to 72 of the original Application continues to

apply to the Amendment and will not change as a result of this Amendment.

(3) Present Worth and Annualized Operation and Maintenance Expenses for

Alternatives

The information provided at page 72 of the original Application continues to apply

to the Amendment and will not change as a result of this Amendment.

(D) DELAYS

The information provided at pages 72 to 73 of the original Application continues to

apply to the Amendment and will not change as a result of this Amendment. CCE is

requesting expedited review of this Amendment to allow for adequate timing to complete

tree clearing outside of the Indiana bat roosting season to support construction in spring

2015. If this cannot be achieved, delays in Facility construction could result, with

associated penalties and loss of benefit to Ohio's ratepayers.

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(A) GENERAL

(B) AIR

(1) Preconstruction

(a) Description of Ambient Air Quality

The information provided at pages 74 to 78 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment.

(b) Description of Pollution Control Equipment

The information provided at pages 78 to 82 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment.

(c) Description of Regulatory Applicability

The information provided at pages 82 to 91 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment. The following regulatory update has occurred since the filing of the original Application.

Cross-State Air Pollution Rule (CSAPR) - Updates have been made to CSAPR, which had previously been vacated by the United States Court of Appeals for the District of Columbia Circuit on August 21, 2012; in April 2014, the United States Supreme Court reversed this decision. On June 26, 2014, the United States Environmental Protection Agency (USEPA) filed a motion to lift the stay of CSAPR, and on October 23, 2014, the United States Court of Appeals for the

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to lift the stay requested that the program begin in 2015 and therefore, CSAPR

could be effective as early as 2015. However, the affected states currently do not

have rules in place to implement CSAPR; therefore, it is more likely that rules will

be promulgated in 2015 for a 2016 enforcement of the program. Until such time as

CSAPR becomes effective, the Clean Air Act Interstate Rule (CAIR) remains in

place. The Project will comply with laws and regulations in place at the time of its

construction and operation.

Required Permits to Install and Operate Air Pollution Sources (d)

The information provided at pages 91 to 92 of the original Application

continues to apply to the Amendment and will not change as a result of this

Amendment.

Air Monitoring Stations and Major Source Mapping (e)

The information provided at page 92 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(f) Demonstration of Regulatory Compliance

The information provided at page 92 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(2) Construction

The information provided at page 93 of the original Application continues to apply

to the Amendment, with the construction impacts on air quality, which consist mainly of

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the relatively minor emissions from the construction equipment and from fugitive dust

emissions, extending over the Additional Laydown Area.

(3) Operation

> (a) Description of Air Quality Monitoring Plans

The information provided at page 93 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(b) Estimated Air Concentration Isopleths

The information provided at pages 93 to 95 of the original Application

continues to apply to the Amendment and will not change as a result of this

Amendment.

Potential Failure of Air Pollution Control Equipment (c)

The information provided at pages 95 to 96 of the original Application

continues to apply to the Amendment and will not change as a result of this

Amendment.

(C) WATER

Additional water conservation measures have been incorporated into the proposed

Facility design. In addition, an option to add an IES design is being requested in this

Amendment. With the water conservation measures and the IES design option, the

Facility's updated maximum daily water use will be on the order of 135,000 gallons; a

volume that is significantly less than the 400,000 gallon maximum proposed in the original

Application. The maximum daily water use is conservatively estimated based on operating

the Facility at full load with full utilization of evaporative cooling on the two CTGs and

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100 percent duct firing of the HRSG at an average ambient temperature of 100°F for a

24-hour period. The Facility's updated average daily water use will be on the order of

90,000 gallons, as compared to the 300,000 gallons proposed in the original Application.

The average daily water use is estimated based on operating the Facility at full load with

full utilization of evaporative cooling on the two CTGs and 100 percent duct firing of the

HRSG at an average ambient temperature of 59°F for a 24-hour period.

(1) Preconstruction

> List of Permits (a)

> > The information provided at page 104 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

Sanitary waste disposal will require approvals, depending upon the final design

selected, that could include a Permit to Install from Ohio EPA.

(b) Location of Survey Data Sources

The information provided at page 104 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(c) Description of Data Sampling Stations

The information provided at page 105 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(d) Water Quality of Receiving Stream

The information provided at page 105 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

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Water Discharge Permit Information (e)

The information provided at page 105 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment, with

the exception of eliminating the industrial discharge to the POTW and treating

sanitary flows through use of either a holding tank or septic system, depending on

final design if the IES design is used.

(2) Construction

(a) Description of Water Monitoring and Gauging Stations

The information provided at pages 105 to 106 of the original Application

continues to apply to the Amendment and will not change as a result of this

Amendment.

(b) Quality and Quantity of Aquatic Discharges from the Site

The information provided at page 106 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(c) Plans to Mitigate Effects

The information provided at page 106 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(d) Changes in Flow Patterns and Erosion

The information provided at page 106 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

Appendix D and E provide updated SWPPPs for both the Additional Laydown Area

and Facility Site, respectively.

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(3) Operation

(a) Description of Water Monitoring and Gauging Stations

The information provided at page 106 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment. Although no process discharge will occur to the POTW if the IES design is used, should sanitary flows be discharged to a POTW, that discharge will be in compliance with the POTW's National Pollutant Discharge Elimination System (NPDES) obligations.

(b) Water Pollutant Control Equipment and Treatment Processes

No significant change in the water pollution control equipment described will result from the amendments. The incorporation of an IES design, if selected, for both cycle makeup water and wastewater treatment would eliminate process wastewater discharge. Instead, the vendor will replace the mobile units periodically, removing the spent units for regeneration. Sanitary wastewater from the Facility will either be stored in an onsite holding tank for and periodically disposal at a nearby POTW or treated with a septic system, pending final design, in accordance with applicable regulations and permits.

Best Management Practices will be used to handle stormwater; updated SWPPPs are provided in Appendix D and E for the Additional Laydown Area and the Facility Site/Construction Laydown Area, respectively.

(c) NPDES Requirements and Schedule

The information provided on page 107 of the original Application continues to apply to the Amendment. If the IES design is implemented in the design, no

process water will be discharged, and sanitary waste will be disposed of in

accordance with the receiving facility's existing NPDES approval. An operational

stormwater NPDES approval will be obtained, if necessary, prior to Facility

operation.

(d) Quantitative Flow Diagram

Depending on the operating conditions and weather conditions, Facility

flows will vary. An updated Facility water balance is provided in Figures 02-5a

and 02-5b, illustrating the IES design which has been incorporated as an option for

both cycle makeup water and wastewater treatment. As can be seen, this

technology, if selected, substantially reduces water demand and eliminates process

wastewater discharge.

If the IES design is used, sanitary wastewater from the Facility will either

be stored in an onsite holding tank for and periodically disposal at a nearby POTW

or treated with a septic system, pending final design, in accordance with applicable

regulations and permits.

(e) Water Conservation Practices

As Facility design has progressed, additional water-saving measures have

been considered. If the IES design along with other water conservation measures

is installed, this will further reduce water demand on local systems and also

eliminate the need for process wastewater discharge to a POTW.

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(D) SOLID WASTE

(1) Preconstruction

The information provided at page 108 of the original Application continues to apply

to the Amendment and will not change as a result of this Amendment.

Construction **(2)**

The information provided at pages 108 to 109 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(3) Operation

The information provided at page 109 of the original Application continues to apply

to the Amendment. If an IES design is installed, the mobile water and wastewater

treatment trailers will also be periodically removed from the Facility Site and replaced,

allowing for regeneration of filtered solids.

Licenses and Permits (4)

The information provided at pages 109 to 110 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

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4906-13-07 Social and Ecological Data

(A) HEALTH AND SAFETY

(1) Demographic Characteristics

The information provided at page 111 of the original Application continues to apply

to the Amendment and will not change as a result of this Amendment.

(2) Atmospheric Emissions

The information provided at page 112 of the original Application continues to apply

to the Amendment and will not change as a result of this Amendment.

(3) Noise

Ambient Noise Level Survey

(a) Construction Noise Levels

With the addition the Additional Laydown Area, the intermittent, temporary

impacts from construction noise may extend over a slightly larger geographical

area. While the majority of construction activities will still occur on the Facility

Site, some activity, including truck movements and site clearing, will occur within

the Additional Laydown Area. The Additional Laydown Area extends north from

the Facility Site, closer to Location 1 (see Figure 07-2). Located approximately

500 feet from the Laydown Work Area, this receptor may experience a temporary

increase in construction-related sound levels. Construction sound levels at

Location 1 were calculated assuming simultaneous operation of all pieces of

construction equipment identified in Table 07-1 (an excerpt from Table 07-5 in the

original Application) at the centroid of the Additional Laydown Area.

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Table 07-1:
Excerpt from Table 07-5: Estimated Facility Construction Sound Levels

Construction Phase	Construction Equipment	Equipment Noise Level at 50 feet, (dBA ¹)	Composite Sound at Location 1 (dBA)
Site Clearing and Preparation	Backhoe	85	
	Dozer	80	
	Generator	78	
	Grader	85	57
	Loader	79	
	Scraper	88	
	Truck (2)	91	

 $^{^{1}}$ dBA = A-weighted decibel

Results showed that construction sound levels would be approximately 57 dBA. This is a conservative estimate since the level of activity and pieces of equipment operating at any given time are expected to be less than what was assumed in the calculations. Given these results and the transient nature of construction noise, conclusions outlined in the original Application remain the same. Facility construction is still expected to result in minimal community noise impact.

(b) Operational Noise Levels

The information provided at pages 121 to 125 of the original Application and the Applicant's responses to the Staff's First Set of Data Requests, No. 8, in Case No. 13-1752-EL-BGN continues to apply to the Amendment and will not change as a result of this Amendment.

(c) Identification of Noise-Sensitive Areas

The information provided at page 125 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment.

(d) Description of Equipment and Noise Mitigation Measures

The information provided at pages 125 to 127 of the original Application continues to apply to the Amendment, with the impact area expanded to include the Additional Laydown Area and surrounding area.

(4) Water

No significant impact to waterbodies is anticipated as a result of the Facility.

(a) Construction and Operation Impact to Public and Private Water Supplies

The information provided at pages 127 to 128 of the original Application continues to apply to the Amendment. Incorporation of an IES design and additional water conservation measures, if installed, will further reduce the water demand of the Facility. As outlined in the original Application, water will be supplied by an existing, regulated water supplier in the region.

(b) Impact of Pollution Control Equipment Failures on Public and Private Water Supplies

The information provided at pages 128 to 129 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment. The incorporation of an IES design, if used, will eliminate the process wastewater discharge, and retain process flows within a series of internal tanks and vessels that will be continually monitored. Water discharge would then be limited

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stormwater management features in accordance with NPDES requirements, and

sanitary waste, which will be treated and disposed of in accordance with applicable

regulations either through a holding tank periodically disposed of at a nearby

POTW or an on-site septic system, pending final design.

(B) ECOLOGICAL IMPACT

(1) Site Information

> (a) Mapping

The information provided at pages 129 to 130 of the original Application

continues to apply to the Amendment.

Figure 07-4 has been updated to incorporate the boundary of the Additional

Laydown Area, which was included in the original study area for wetland and

stream delineation and threatened and endangered species. No wildlife areas,

nature preserves or other conservation areas are present in this area.

An updated Natural Resources Conservation Service soil mapping (Figure

04-2) indicates the presence of highly erodible land on the majority of the

Additional Laydown Area, largely related to sloping terrain. Moderately to steeply

sloped terrain is present within the narrow drainage valleys located around the

intermittent streams present in the eastern and southern portions of the parcel. The

rest of the Additional Laydown Area is relatively flat, with a gentle slope toward

the south-southeast. Figure 07-4 illustrates all delineated surface water resources;

these have been reviewed and approved by the United States Army Corps of

Engineers (USACE).

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Vegetation Survey **(b)**

The Additional Laydown Area was included in the original survey

conducted to identify representative plan species. Similar to the Facility Site and

Construction Laydown Area, the Additional Laydown Area is an active agricultural

area with perimeter riparian areas, particularly in the eastern and southern portions

of the property. Agricultural fields and wooded areas dominate the land within half

a mile of the Facility Site. The information provided at pages 130 to 137 of the

original Application continues to apply to the Amendment and will not change as a

result of this Amendment.

Species Survey (c)

The information provided at pages 137 to 140 of the original Application

continues to apply to the Amendment and will not change as a result of this

Amendment. Clearing, including for the Additional Laydown Area, will be

restricted to not occur from April 1 through September 30 to avoid the potential

impact to Indiana bat summer roosting habitat.

(d) **Ecological Study**

Wetland Assessment - The Additional Laydown Area was included in the

Wetland Delineation and Stream Identification Report (Appendix A) conducted to

support the original Application. The majority of identified wetlands in this area

are associated with intermittent and perennial tributaries to Pipes Fork, located

along the perimeter of the Additional Laydown Area, outside the proposed area of

activity. The existing road corridor along which the new access road will run,

includes an existing culvert across Stream 12, an intermittent, unnamed tributary of

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Pipes Fork that is supported by drainage from Wetland O (located northwest of the

Additional Laydown Area). No additional impacts to delineated wetlands or

streams are proposed in association with this Amendment.

Ecological Impact Study Summary – The modifications included in this

Amendment do not pose any material change to the ecological impact study

conducted as part of the original Application. The information provided at pages

140 to 141 of the original Application continues to apply to the Amendment and

will not change as a result of this Amendment.

List of Major Species (e)

The information provided at pages 141 to 142 of the original Application

continues to apply to the Amendment and will not change as a result of this

Amendment.

(2) Construction

> Impact of Construction on Undeveloped Areas (a)

The information provided at pages 142 to 143 of the original Application

continues to apply to the Amendment. In addition to the impacts outlined in the

original Application, approximately 12 acres of wooded area associated with the

Additional Laydown Area will be cleared during construction. Restoration of this

area will be in accordance with landowner specifications; no Facility-related

activities will occur in this area following completion of construction. A minimum

20-foot buffer will be maintained to protect the intermittent streams running along

the southern and eastern boundaries of the Additional Laydown Area.

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The reorientation of the Facility Switchyard also requires that an additional

0.5-acre of cleared area remain permanently cleared. Low-growing vegetation will

be allowed within the adjusted electrical transmission right-of-way, and the

remaining area will be landscaped with gravel and shrubbery.

(b) Impact of Construction on Major Species

The original review completed by the United States Fish and Wildlife

Service and Ohio Department of Natural Resources included a one-mile radius

around the Facility Site. Since the Additional Laydown Area is located directly

north of the Facility Site, it was included in this review, which concluded that

impacts to threatened and endangered species are not anticipated. A field-

confirmation determined habitat on these parcels is not suitable for federally-listed

species, and seasonal restriction of clearing will avoid impact to potential Indiana

bat habitat. Thus, the information provided at pages 143 to 144 of the original

Application continues to apply to the Amendment and will not change as a result

of this Amendment.

(c) Mitigation for Short-Term and Long-Term Construction Impacts

The information provided at page 144 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

Similar measures will be implemented on the Additional Laydown Area as

were proposed in the original Application. Sediment and erosion control, dust and

particulate control, and revegetation will mitigate the short- and long-term impacts

of construction. The additional clearing and grading required on the Additional

Laydown Area will be conducted in the same manner as those activities on the

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Facility Site and Construction Laydown Area. Specifically, habitat tree-clearing

will be seasonally restricted to avoid impact to potential Indiana bat habitat, and a

minimum 20-foot buffer will be maintained between grading activities and the

existing, intermittent streams.

(3) Operation

(a) Impact of Operation on Undeveloped Areas

Although the reoriented Facility Switchyard requires 0.5 additional acre of

permanent clearing, significant impact to wildlife species is not anticipated. The

information provided at page 145 of the original Application continues to apply to

the Amendment and will not change as a result of this Amendment.

(b) Impact of Operation on Major Species

The information provided at page 145 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(C) Economics, Land Use and Community Development

(1) Land Uses

(a) Land Use Mapping

The information provided at pages 145 to 146 of the original Application

continues to apply to the Amendment and will not change as a result of this

Amendment.

(b) Residential Structures

The information provided at page 146 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

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(c) Land Use Impact

The information provided at pages 146 to 147 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment.

(d) Structures to be Removed or Relocated

No structures will be removed or relocated as a result of the proposed Facility.

(e) Formally Adopted Plans for Future Use of the Site and Surrounding Lands

The information provided at page 147 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment.

(f) Applicant Plans for Concurrent or Secondary Uses of the Site

The information provided at page 147 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment.

(2) Economics

(a) Annual Total and Present Worth of Construction and Operation Payroll

The information provided at page 148 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment.

(b) Construction and Operation Employment

The information provided at page 148 of the original Application continues to apply to the Amendment and will not change as a result of this Amendment.

Increase in Local Revenue (c)

The information provided at page 149 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

Economic Impact on Local Commercial and Industrial Activities (d)

The information provided at pages 149 to 152 of the original Application

continues to apply to the Amendment and will not change as a result of this

Amendment.

(3) Public Services and Facilities

The information provided at pages 152 to 153 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

Impact on Regional Development (4)

> (a) Impact on Regional Development

> > The information provided at pages 153 to 154 of the original Application

continues to apply to the Amendment and will not change as a result of this

Amendment.

(b) Compatibility with Regional Plans

The information provided at page 154 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(D) Cultural Impact

The Additional Laydown Area was included in the original Phase I archaeological

investigation conducted as part of the original Application. This archaeological

investigation concluded that the proposed Facility would not adversely affect the 10

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previously documented archaeological sites, 17 cemeteries, and one recreational park

located within the five-mile study area; the three resources identified within the 232 acre

area studied will not be impacted as a result of the Amendment.

An additional archaeological study was conducted to support the proposed natural

gas pipeline interconnection corridor. The 93-acre area studied included land proposed for

the access road which will connect the Facility Site to the Additional Laydown Area. One

cultural object was identified within the area studied, which was determined to not possess

significant archaeological research value. No further archaeological investigations were

recommended for this area.

The modifications included in this Amendment do not alter the conclusions of this

archaeological investigation; therefore, the information provided at page 154 continues to

apply to this Amendment and will not change as a result of this Amendment.

(1) Cultural Resource Mapping

The information provided at page 155 of the original Application continues to apply

to the Amendment and will not change as a result of this Amendment.

(2) Cultural Resource Impacts

The information provided at pages 155 to 156 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

Cultural Resource Landmarks (3)

The information provided at pages 156 to 158 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

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(4) Land and Water Recreation Area Mapping

The information provided at page 158 of the original Application continues to apply

to the Amendment and will not change as a result of this Amendment.

(5) Land and Water Recreation Areas

The information provided at pages 158 to 159 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(6) Recreational Areas and Potential Impacts

The information provided at page 159 of the original Application continues to apply

to the Amendment and will not change as a result of this Amendment.

(7) Measures to Minimize Visual Impacts

The information provided at page 159 of the original Application continues to apply

to the Amendment and will not change as a result of this Amendment.

(E) PUBLIC RESPONSIBILITY

(1) Public Interaction Program

The information provided at pages 160 to 161 of the original Application continues

to apply to the Amendment and will not change as a result of this Amendment.

(2) Liability Compensation Plans

The information provided at page 161 of the original Application continues to apply

to the Amendment and will not change as a result of this Amendment.

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AGRICULTURAL DISTRICT IMPACT **(F)**

No agricultural district land is located within the boundaries of the Additional

Laydown Area.

(1) Agricultural Land Mapping

Figure 07-7 has been updated to incorporate agricultural land located within and

proximate to the boundaries of the proposed Additional Laydown Area. No agricultural

district land is located within these boundaries, therefore, the information provided at page

161 of the original Application continues to apply to the Amendment and will not change

as a result of this Amendment.

(2) Potential Impact to Agricultural Lands

> (a) Potential Construction, Operation and Maintenance Impacts

The information provided at pages 161 to 162 of the original Application

and the Applicant's responses to the Staff's First Set of Data Requests, No. 1, in

Case No. 13-1752-EL-BGN continues to apply to the Amendment and will not

change as a result of this Amendment.

(b) Agricultural Mitigation Practices

The information provided at page 162 of the original Application and the

Applicant's responses to the Staff's First Set of Data Requests, No. 1, in Case No.

13-1752-EL-BGN continues to apply to the Amendment and will not change as a

result of this Amendment. The Additional Laydown Area does not lie within an

agricultural district; therefore, no impact to an agricultural district is anticipated.

Construction will incorporate analysis and mitigation of existing drainage paths.

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Best Management Practices will be implemented to manage stormwater and protect

existing features.

(3) Potential Impact on Agricultural Viability

The information provided at pages 162 to 163 of the original Application and the

Applicant's responses to the Staff's First Set of Data Requests, No. 1, in Case No. 13-1752-

EL-BGN continues to apply to the Amendment. Use of the Additional Laydown Area will

temporarily remove an additional 18 acres of land from agricultural production. Upon

construction completion, the Additional Laydown Area, along with the 23-acre

Construction Laydown Area, will be restored to agricultural use, in accordance with

landowner specifications.

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Case No(s). 14-2085-EL-BGA

Summary: Application to Amend Certificate electronically filed by Mr. Michael J. Settineri on behalf of Carroll County Energy LLC