

Air - Construction Permit

version 1.20

(Submission #: HQH-8E49-RZBQN, version 6)

Digitally signed by:
ePermitting
Date: 2026.08.28 13:13:17 -04:00
Reason: Copy Of Record
Location: Columbia, South Carolina

Details

Submission ID HQH-8E49-RZBQN

CORRECTION REQUEST (APPROVED)

Modeling Issues

1. The Startup and Shutdown emissions should be analyzed and included in the modeling compliance demonstrations in a manner that is consistent with Appendix W (Guideline on Air Quality Models), Table 8-2.
2. The short-term emission rates for the volume sources CP_IHT01-CP_IHT05 provided in Table 6-4 of the application do not match the AERMOD input files provided for significance and cumulative modeling. Please resolve these discrepancies.
3. Please indicate the source of how the elevations for all sources and building elevations were set in the modeling, as they were not extracted via AERMAP but were set at a particular elevation. Was the elevation determined via site survey or some other approach?
4. Table 6-10 in the application provides the MERPs calculations for the Class I 24-hour and Annual PM_{2.5} impacts. Footnote b states the distance to the nearest Class I area was estimated at 80 km. However, based on the MERPs Qlik site and the MERPs calculations spreadsheet provided, the distance selected was 100 km. EPA Region 4 recommends amending Footnote b to say, ♦100 km♦.
5. Please use the most up-to-date 2022-2024 background concentrations from our website for comparison to the NAAQS.

Created on 3/18/2026 11:50 AM by **Gregory S Quina**

Form Input

Pre-Application Meeting Requirements

Please refer to the [Air Permit Application Checklist](#) to assist in filling out this application.

Failure to follow the checklist may result in your application being deemed incomplete or rejected.

Submission of this form requires two signatures, owner/operator and a Professional Engineer (PE) licensed in the State of South Carolina. Both must have an approved Certifier Agreement on file to complete the submission process. You can find instructions how to submit an electronic signature agreement [here](#). Additional ePermitting training can be located on the [ePermitting training page](#) and the [Air Quality ePermitting training page](#).

A Pre-Application Meeting:

- Is required prior to the submission of applications for the following projects:
 - [Energy Infrastructure Project \(EIP\)](#)
 - [Prevention of Significant Deterioration \(PSD\)](#)
 - [112\(g\)](#)
 - [Synthetic Minor](#)
 - [Projects with large public interest.](#)
- During the pre-application meeting we will:
 - Identify milestones specific to the individual application/site (community engagement, design, key project construction dates)
 - Establish an agreed upon issuance date if necessary
 - Discuss applicable regulatory standards as they apply to individual applications
 - Go over modeling

If you are required to have pre-application meeting and have not contacted Air Permitting Division to set one up. Please do so before submitting this form.

Do you have confidential information or data to submit?

No

Energy Infrastructure Projects (EIP)

An [Energy Infrastructure Project](#) (EIP) is a project, which is submitted on or after **May 12, 2025**, entailing the construction, placement, authorization, or removal of energy infrastructure including, but not limited to, electric transmission and generation assets, natural gas transmission assets, and all associated or appurtenant infrastructure and activities, including communications and distribution infrastructure.

Is this project an Energy Infrastructure Project (EIP)?

Yes

Facility Information

Is this an existing facility?

No

Will there be any emissions that are not VOC's, that will be above Standard 2 exemption thresholds or Standard 8 de minimis emission rates?

Yes

Is this facility considered a Single Source or potentially a Single Source with another facility?

No

Would you like expedited processing?

No

If the facility site name listed below has changed and needs to be updated, please complete and submit form "Air Permitting - Site Name Update (Not Transfer of Ownership)".

Site Name

Duke Anderson Turbine Station

Facility Federal Tax Identification Number

20-2777218

Indicate the sector that best represents your site.

Electric Generation

Facility's Primary Products

Electric Power Generation

Site Primary SIC

4911-Electric Services

Site Primary NAICS

221112-Fossil Fuel Electric Power Generation

Facility Physical Address

Corner of Hwy 81 S and True Temper Road
Anderson, SC 29624

County

Anderson

Facility Physical Location

34.44504199999999,-82.66275300000000

Corner of Hwy 81 S and True Temper Road, Anderson, SC

On the Google map in the "Search by name or address" field, type in the address. If address does not work, use the name of facility. Once pin icon finds the location, verify the pin is at the correct location. The pin should be located at the center location of all permitted devices. If not, use the mouse and move the pin to a more precise location. The longitude and latitude coordinates will adjust accordingly as you move the pin icon. To help, you can change the map view to a satellite view. The plus (+) and minus (-) buttons help to zoom in and zoom out your view.

For the facilities whose address is not in close proximity of their facility, find the closest street or crossing streets. Use your mouse on the Google map to move locator arrow on map to drop red marker closest to the center of the facility's processes. The facility building can be pending construction or existing.

Project Information

Project Description

The main component of the Facility is a new combined-cycle power block consisting of two advanced-class combustion turbines, two heat recovery steam generators (HRSG) and one steam turbine. The combustion turbines will primarily fire natural gas and utilize No. 2 fuel oil (ultra-low sulfur diesel [ULSD]) as a backup fuel source. Each turbine will be equipped with DLN, SCR technology, and an oxidation catalyst for emissions control. The facility will also consist of one emergency diesel-fired generator, one emergency diesel-fired firewater pump engine, two natural gas-fired dew point heaters, two diesel fuel storage tanks, and a compressor station. The compressor station will be electric driven and will include a natural gas-fired emergency generator engine and two sets of small natural gas-fired heaters.

As an attachment to this form include a narrative with the following information:

- 1. Description of the facility's proposed new or altered processes. Include how the new or altered sources affect the existing operation (e.g., removal of bottlenecks, increase of capacity).
- 2. A detailed schedule for construction of the source or modification.
- 3. Design capacity of the proposed or modified sources.
- 4. Typical operating schedule of the proposed or modified sources.
- 5. Physical and chemical properties and feed rate of the raw materials used and products made from which the facility determined potential emissions.
- 6. Specifications and drawings showing its design and plant layout.
- 7. Process flow diagram / production process layout of all new or altered sources showing the flow of materials and intermediate and final product. Include emission routing and exhaust points to the atmosphere.

Additional information required to complete the review of this permit application should be submitted as attachments.

Narrative Attachment

Anderson turbine permit app August 2026 Update_Clean.zip - 08/27/2026 08:49 AM

Comment

NONE PROVIDED

Permit Types

PSD Non-Class I Area

Potentially applicable regulations or standards are those that superficially appear that they could apply to the facility/source.

Please select applicable and potentially applicable regulations:

- 40 CFR 60
- 40 CFR 63
- Other Air Regulations and Standards
- SC Regulations 61-62

Equipment Information

Equipment Table Instructions

Be as detailed as possible when filling out "Equipment Description." The following includes examples of source types and relevant information associated with that source:

- **External Combustion Sources:** Equipment type and usage (e.g. steam generation, process heat, drying, curing, etc.), maximum heat capacity (Million BTU/hr), primary and backup fuel type (e.g. natural gas, fuel oil, coal, etc.), low NOx burners, direct or indirect heating
- **Stationary Internal Combustion Sources:** Equipment type and usage (e.g. emergency generator, fire pump, etc.), output brake/electrical power (hp/kW), fuel type
- **Liquid Storage Tanks:** Tank type (e.g. fixed roof, floating roof, variable vapor pressure, etc.), materials stored, loading source (e.g. pipeline)

car, process, etc.)

- **Incinerators:** Incinerator type (e.g. rotary kiln, air curtain, single chamber, etc.), primary and secondary waste types (e.g. municipal waste, ya waste, clean wood, etc.), waste charge rate (tons/day or lb/hr), burner capacity (BTU/hr), minimum chamber temperature
- **Surface Coating Sources:** Coating operation type (e.g. large appliances, auto and light duty trucks, paper and other webs, publication print inks, etc.)

Review applicable regulations to determine additional information that may be required for permitting.

Equipment Information

Information can be entered in the table below on your internet browser or downloaded and opened in Excel.

- When opening in Excel,
 - The file name must remain unchanged, "Equipment Information"
 - The name and order of the columns must remain unchanged
 - For the "Equipment Action" column, you must use an option from the following list (with no additional spaces or changes in formatting)
 - Add
 - Remove
 - Modify
 - Existing

Additional information can be found on the Reference sheet.

Equipment Information

[Equipment Information.xlsx](#)

CORRECTION REQUEST (APPROVED)

CT-2 manufacturer

This table says that CT-2 is a Mitsubishi. Everywhere else in the application says its GE. Which is correct? Update this table and/or the rest of the application.

Created on 3/11/2026 1:48 PM by **David D. Nasol**

Do you have any Control Devices associated with your Equipment?

Yes

Control Device Instructions

Please add a row with 'Add Row' button if you need to input more than one Control Device.

Inherent, required and voluntary control devices, as used in the table below, are defined as:

- **Inherent:** Consult the EPA Guidance link below. A statement of "Inherent" should be accompanied by a detailed explanation of the determining factors as an attachment.
- **Required:** Control device is relied-upon or required by regulation, and controlled emissions are used to show compliance with applicable standards and regulations.
- **Voluntary:** Control device is not relied-upon and uncontrolled emissions are used to show compliance with applicable standards and regulations.

Control Device Table

Information can be entered in the table below on your internet browser or downloaded and opened in Excel.

- When opening in Excel,
 - The file name must remain unchanged, "Control Devices"
 - The name and order of the columns must remain unchanged
 - For the "Action" column, you must use an option from the following list (with no additional spaces or changes in formatting):
 - Add
 - Remove
 - Modify
 - Existing
 - For the "Inherent/Required/Voluntary" column, you must use an option from the following list (with no additional spaces or changes in formatting):
 - Inherent
 - Required
 - Voluntary

Additional information can be found on the Reference sheet

Control Device Table

[Control Devices.xlsx](#)

CORRECTION REQUEST (APPROVED)

Required control device

CD-1, CD-2, CD-3, and CD-4 are required control devices. Update from "Voluntary" to "Required"
Created on 3/12/2026 9:51 AM by **David D. Nasol**

Are any control devices voluntary or inherent?

Yes

Justification for Inherent or Voluntary Control Device

[Inherent Control Device LNB.pdf - 12/02/2025 11:46 AM](#)

Comment

NONE PROVIDED

Exempt Equipment

[Bureau of Air Quality Permitting Exemption List](#)

Are any exempt sources being installed with this project?

No

Emissions

Definitions for completing the information in the tables below:

- **Uncontrolled emissions:** Maximum emission rate at full design capacity without consideration of control devices or emission limitations.
- **Controlled emissions:** Maximum emission rate at full design capacity taking into consideration control devices.
- **Potential to Emit (PTE):** The maximum capacity of a source to emit a regulated pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the source to emit a regulated pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design only if the limitation or the effect it would have on emissions is federally enforceable. Secondary emissions do not count in determining the potential to emit of a source.
 - Emission reductions from voluntary control devices should not be factoring in the above calculations.
 - Emission reductions from inherent control devices are included as uncontrolled emissions.

[Facility Wide Emissions.xlsx](#)

For each piece of equipment or process in this project, provide emission calculations for each pollutant in an attached spreadsheet.

Emission Spreadsheets

[Anderson Potential Emissions_August 2026.xlsx - 08/27/2026 08:47 AM](#)

Comment

NONE PROVIDED

CORRECTION REQUEST (APPROVED)

Quantify Hexane emission rates

There has been at least one permit petitioned recently because hexane emissions were not quantified from natural gas combustion sources. Please quantify the hexane emissions from natural gas combustion sources if not already quantified. Note: AP-42 Section 1.4 was updated in April and now includes an emission factor for hexane. Update emissions summary tables as necessary.

Created on 5/1/2026 10:33 AM by **David D. Nasol**

CORRECTION REQUEST (APPROVED)

Quantify HAP emissions from Flare

Quantify the HAP emissions from the combustion of natural gas in the flare. HAPs emitted should be the same as the HAPs from other natural gas combustion sources. AP-42 Section 1.4 might be suitable emission factors to use for the flare. Update emissions summary tables as necessary.

Created on 4/30/2026 4:07 PM by **David D. Nasol**

CORRECTION REQUEST (APPROVED)

Compressor Station CO₂e emissions

On the "Equipment Summary" sheet, cell O25 includes emissions from the circuit breakers. Update this formula to correct.

Created on 3/25/2026 1:45 PM by **David D. Nasol**

CORRECTION REQUEST (APPROVED)

Pigging-Flaring emissions

Provide an explanation as to why PM, PM₁₀, PM_{2.5}, and HAP emissions from combustion are not quantified.

Created on 3/25/2026 1:27 PM by **David D. Nasol**

CORRECTION REQUEST (APPROVED)

Total HAP calculation

Add a calculation for Total HAP on the "Equipment Summary" sheet. It should match the Total HAP in the Emissions table in the ePermitting application form.

Created on 3/25/2026 10:22 AM by **David D. Nasol**

CORRECTION REQUEST (APPROVED)

CS-ENG HAP emissions

Quantify the HAP emissions from the Emergency Natural-Gas fired engine, CS-ENG. Update the "Equipment Summary" and "NG Emergency Engine" sheets.

Created on 3/25/2026 10:20 AM by **David D. Nasol**

Additional documentation should include but is not limited to the following:

Emission Calculations Spreadsheet
Emission factors used along with the complete details of the emission factor source(s) – source name, date, version, chapter, table, etc.

- When using source test information as the factor, provide:
- SCDES approved test date OR a copy of the source test results
 - An explanation why this source is representative for this equipment/process
 - Where the test was conducted; and
 - Any other identifying information

- For Surface Coating Sources:
- Safety data sheet (SDS) or environmental data sheet (EDS)
 - % Volatile Organic Compound (VOC) content
 - % Hazardous Air Pollutants (HAPs) content
 - Coating density
 - Transfer efficiencies

- For control devices:
- Manufacturer’s data, or vendor guarantees supporting control device efficiencies
 - Details of the capture system, ie. hard piped, hood, etc.

- Fuel Information:
- Fuel Type
 - Fuel Sulfur Content
 - Equipped with Low NOx burners
 - BTU Content of fuel
 - % Ash

- Liquid Storage Tanks
- Material Density
 - Maximum True Vapor Pressure
 - Maximum Average Storage Temperature

Details on limits being taken for Potential to Emit (PTE) emissions, such as hours of operation.

Other supporting information (e.g. particle size distribution, etc.), as applicable.

If this project is for a PSD major facility, include the justifications for projected actual or potential to emit, as applicable, baseline actual, and could have accommodated/not related to the project.

Additional Documentation as outlined above

[Anderson turbine permit app August 2026 Update_Clean.zip - 08/27/2026 08:53 AM](#)

Comment
NONE PROVIDED

CORRECTION REQUEST (APPROVED)
Provide emission factor references

Provide the references for emission factor/rates from sampling data or stack tests performed at other facilities. Full reports are not necessary - test summaries will suffice.
Created on 3/25/2026 1:50 PM by **David D. Nasol**

State Air Pollution Control Regulations and Standards (1 of 9)

S.C. Regulation 61-62.5, Standard No. 1 Emissions from Fuel Burning Operations

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard
S.C. Regulation 61-62.5, Standard No. 1 Emissions from Fuel Burning Operations

Applicability
Applicable

Equipment ID(s)	Pollutant/Parameter	Limit (units)	How do you plan to comply?
CT-1, CT-2	Particulate Matter	0.8 lb/MMBtu	Initial Stack Test, Fuel Monitoring/Emissions Calculations.
CT-1, CT-2	SO2	2.3 lb/MMBtu	Fire only natural gas or ULSD.

Equipment ID(s)	Pollutant/Parameter	Limit (units)	How do you plan to comply?
AUX-1	Particulate Matter	0.8 lb/MMBtu	Fire only natural gas.
AUX-1	SO2	2.3 lb/MMBtu	Fire only natural gas.
DPH-1, DPH-2	Particulate Matter	0.8 lb/MMBtu	Fire only natural gas.
DPH-1, DPH-2	SO2	2.3 lb/MMBtu	Fire only natural gas.
CS Heaters-1, CS Heaters-2	Particulate Matter	0.8 lb/MMBtu	Fire only natural gas.
CS Heaters-1, CS Heaters-2	SO2	2.3 lb/MMBtu	Fire only natural gas.
CS-ENG	Particulate Matter	0.8 lb/MMBtu	Fire only natural gas.
CS-ENG	SO2	2.3 lb/MMBtu	Fire only natural gas.

Explain why the State Regulation does or does not apply.

All equipment will be constructed after February 11, 1971 and subject to the requirements of fuel burning operations.

State Air Pollution Control Regulations and Standards (2 of 9)

S.C. Regulation 61-62.5, Standard No. 2 Ambient Air Quality Standards

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

S.C. Regulation 61-62.5, Standard No. 2 Ambient Air Quality Standards

Applicability

Applicable

Explain why the State Regulation does or does not apply.

The facility will be located in Anderson, South Carolina, and will be required to adhere to the ambient air quality standards for the State.

State Air Pollution Control Regulations and Standards (3 of 9)

S.C. Regulation 61-62.5, Standard No. 3 Waste Combustion and Reduction

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

S.C. Regulation 61-62.5, Standard No. 3 Waste Combustion and Reduction

Applicability

Not Applicable

Equipment ID(s)
CT-1, CT-2, EDG-1, DFP-1, DPH-1, DPH-2, AUX-1

Explain why the State Regulation does or does not apply.

All combustion units at the Facility will burn virgin fuel. Therefore, this standard does not apply to the Facility.

State Air Pollution Control Regulations and Standards (4 of 9)

S.C. Regulation 61-62.5, Standard No. 4 Emissions from Process Industries

CORRECTION REQUEST (APPROVED)

Update Applicability

The 20% opacity limit of Section IX is applicable to all sources.

The PM limit of Section VIII is not applicable since there is no process weight rate.

Update this section and the project narrative attachment accordingly.

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

S.C. Regulation 61-62.5, Standard No. 4 Emissions from Process Industries

Applicability

Applicable

Is the facility subject to Section VIII?

No

Equipment ID(s)	Pollutant/Parameter	Limit (units)	How do you plan to comply?
CT-1	Opacity	20%	Burning low-sulfur fuels and using good combustion practices.
CT-2	Opacity	20%	Burning low-sulfur fuels and using good combustion practices.
AUX-1	Opacity	20%	Burning low-sulfur fuels and using good combustion practices.
EDG-1	Opacity	20%	Burning low-sulfur fuels and using good combustion practices.
DFP-1	Opacity	20%	Burning low-sulfur fuels and using good combustion practices.
DPH-1	Opacity	20%	Burning low-sulfur fuels and using good combustion practices.
DPH-2	Opacity	20%	Burning low-sulfur fuels and using good combustion practices.
Compressor Station	Opacity	20%	Burning low-sulfur fuels and using good combustion practices.
TK-1	Opacity	20%	Burning low-sulfur fuels and using good combustion practices.
TK-2	Opacity	20%	Burning low-sulfur fuels and using good combustion practices.
CS-ENG	Opacity	20%	Burning low-sulfur fuels and using good combustion practices.
CS-Heaters 1	Opacity	20%	Burning low-sulfur fuels and using good combustion practices.
CS-Heaters 2	Opacity	20%	Burning low-sulfur fuels and using good combustion practices.
Circuit Breakers	Opacity	20%	Burning low-sulfur fuels and using good combustion practices.

Explain why the State Regulation does or does not apply.

Construction will begin after the applicable date of December 31, 1985, so emissions (including fugitive emissions) will not exhibit an opacity greater than 20%.

State Air Pollution Control Regulations and Standards (5 of 9)

S.C. Regulation 61-62.5, Standard No. 5 Volatile Organic Compounds

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

S.C. Regulation 61-62.5, Standard No. 5 Volatile Organic Compounds

Applicability

Not Applicable

Equipment ID(s)
CT-1, CT-2, EDG-1, DFP-1, DPH-1, DPH-2, AUX-1, TK-1, TK-2, CS-ENG
Circuit Breaker, CS Heater-1, CS Heater-2

Explain why the State Regulation does or does not apply.

SC DES Regulation 61-62.5, Standard No. 5 is not applicable to the Facility because the Facility is not an existing process or a Facility in a subject source category listed under Section II ♦ Provisions for Specific Sources of the Standard.

State Air Pollution Control Regulations and Standards (6 of 9)

S.C. Regulation 61-62.5, Standard No. 5.2 Control of Oxides of Nitrogen (NOX)

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

S.C. Regulation 61-62.5, Standard No. 5.2 Control of Oxides of Nitrogen (NOX)

Applicability

Not Applicable

Equipment ID(s)
CT-1, CT-2, EDG-1, DFP-1, DPH-1, DPH-2, AUX-1, CS-ENG, CS Heaters 1 & 2, Compressor Station
CORRECTION REQUEST (APPROVED) Add Compressor Station Since flaring in the Compressor Station generates NOx, add Compressor Station to the list of Equipment IDs. Created on 3/17/2026 1:24 PM by David D. Nasol

Explain why the State Regulation does or does not apply.

The NOx-emitting equipment associated with this Facility is subject to SC DES Regulation 61-62.5, Standard No. 7, which requires a BACT analysis.

State Air Pollution Control Regulations and Standards (7 of 9)

S.C. Regulation 61-62.5, Standard No. 7 Prevention of Significant Deterioration

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

S.C. Regulation 61-62.5, Standard No. 7 Prevention of Significant Deterioration

Applicability

Applicable

Equipment ID(s)	Pollutant/Parameter	Limit (units)	How do you plan to comply?
CT-1	NOx, PM/PM10/PM2.5, SO2, VOC, CO, GHG	See Table 5-1	See Table 5-1
CT-2	NOx, PM/PM10/PM2.5, SO2, VOC, CO, GHG	See Table 5-1	See Table 5-1
AUX-1	NOx, PM/PM10/PM2.5, SO2, VOC, CO, GHG	See Table 5-1	See Table 5-1
EDG-1	NOx, PM/PM10/PM2.5, SO2, VOC, CO, GHG	See Table 5-1	See Table 5-1
DFP-1	NOx, PM/PM10/PM2.5, SO2, VOC, CO, GHG	See Table 5-1	See Table 5-1
DPH-1	NOx, PM/PM10/PM2.5, SO2, VOC, CO, GHG	See Table 5-1	See Table 5-1
DPH-2	NOx, PM/PM10/PM2.5, SO2, VOC, CO, GHG	See Table 5-1	See Table 5-1
Compressor Station	NOx, SO2, VOC, CO, GHG	See Table 5-1	See Table 5-1
TK-1	VOC	See Table 5-1	See Table 5-1
TK-2	VOC	See Table 5-1	See Table 5-1
CS-ENG	NOx, PM/PM10/PM2.5, SO2, VOC, CO, GHG	See Table 5-1	See Table 5-1
CS Heaters-1	NOx, PM/PM10/PM2.5, SO2, VOC, CO, GHG	See Table 5-1	See Table 5-1
CS Heaters-2	NOx, PM/PM10/PM2.5, SO2, VOC, CO, GHG	See Table 5-1	See Table 5-1
Circuit Breakers	GHG	See Table 5-1	See Table 5-1

Attach a Detailed Regulatory Analysis as Described Below:

PSD Applicability

- Actual-to-projected-actual applicability test for projects that only involve existing emissions units.
- Actual-to-potential test for projects that only involve construction of a new emissions unit(s).
- Hybrid test for projects that involve multiple types of emissions units.

BACT Analysis

- Identify Alternative Emission Control Techniques (Step 1)
- Technical Feasibility Analysis (Step 2)
- Ranking the Technically Feasible Alternatives to Establish a Control Hierarchy (Step 3)
- Evaluating Remaining Control Technologies (Step 4)
- Selecting BACT (Step 5)

Detailed PSD Applicability and BACT Analysis

[Anderson turbine permit app August 2026 Update_Clean.zip - 08/27/2026 09:02 AM](#)

Comment

NONE PROVIDED

CORRECTION REQUEST (APPROVED)

Circuit Breaker BACT

Please address the following comment from EPA:

Lack of SF6-free circuit breakers, pressurized enclosures, and pressure alarms in the circuit breaker BACT analysis
Created on 5/13/2026 3:38 PM by **David D. Nasol**

CORRECTION REQUEST (APPROVED)

Storage Tank BACT

Please address the following comment from EPA:

Lack of control options in storage tank BACT analysis, such as light coloring, bottom/submerged fill, fixed roof, and good maintenance practices, and lack of cost estimate details if relying on cost infeasibility argument
Created on 5/13/2026 3:37 PM by **David D. Nasol**

CORRECTION REQUEST (APPROVED)

Natural Gas fired Heater NOx BACT analysis discussion

Please address the following comment from EPA:

It is unclear in the natural gas fired heater NOx BACT analysis showing how "most stringent NOx" levels are reached, given AP-42 and lower limits in RBLC.
Created on 5/13/2026 3:37 PM by **David D. Nasol**

CORRECTION REQUEST (APPROVED)

Address combination of front-end controls and add-on controls

Please address the following comment from EPA:

There is a lack of combination of front-end controls and add-on controls for combustion turbine NOx BACT Analysis
Created on 5/13/2026 3:34 PM by **David D. Nasol**

CORRECTION REQUEST (APPROVED)

Step 3 NOx AUX-1 explanation

I'm not following the explanation for why the ULNB boiler system is cost prohibitive. Please explain further.
Created on 5/1/2026 1:23 PM by **David D. Nasol**

1 COMMENT

David D. Nasol (David.Nasol@des.sc.gov) (5/8/2026 1:59 PM)

Page 5-56 and Appendix D

CORRECTION REQUEST (APPROVED)

Not "available" control technologies

Several technically feasible control options were considered not "available" control technologies as the rationale for not being technically feasible. This rationale is not acceptable to rule them as not technically feasible.

For the control options using this rationale, either provide a different rationale to rule them technically infeasible or rule those options out in Steps 3 and 4.

Created on 5/1/2026 11:49 AM by **David D. Nasol**

3 COMMENTS

David D. Nasol (David.Nasol@des.sc.gov) (5/13/2026 9:48 AM)

DFP-1 - did not address comment above for Scrubber/Flue Gas desulfurization SO₂ control

David D. Nasol (David.Nasol@des.sc.gov) (5/13/2026 9:43 AM)

Emergency Engines - provide explanation of why scrubber/flue gas desulfurization cannot be used for combustion of ULSD (EDG-1) and natural gas (CS-ENG).

David D. Nasol (David.Nasol@des.sc.gov) (5/13/2026 9:24 AM)

DFP-1 update PM add-on control technology explanation like you did for the emergency generators

CORRECTION REQUEST (APPROVED)

Provide reference for Energy Efficiency control option

Provide a reference for the estimated 10-50% control efficiency for the energy efficiency control option in Step 3 of the GHG BACT for the CCCTs.

Created on 5/1/2026 11:26 AM by **David D. Nasol**

CORRECTION REQUEST (APPROVED)

Step 4 of BACT analysis

If eliminating the top control option in step 4, provide the control option impacts of the next control option.

Created on 5/1/2026 11:23 AM by **David D. Nasol**

1 COMMENT

David D. Nasol (David.Nasol@des.sc.gov) (5/13/2026 10:02 AM)

Not addressed for CCCT GHG. Need to provide control option impacts for Energy efficient and inherently lower-emitting processes, combustion practices, work practices, and design.

CORRECTION REQUEST (APPROVED)

Provide Control Efficiencies in Step 3

Where rankings are required, provide the control efficiencies and references for control options if not already provided.

Created on 5/1/2026 11:21 AM by **David D. Nasol**

CORRECTION REQUEST (APPROVED)

CO₂e BACT limit calculation spreadsheet

Per our discussion on April 24, 2026, attach a spreadsheet showing how CO₂e BACT limits were calculated. Include a sample calculation if not apparent how the values were calculated.

Created on 5/1/2026 10:09 AM by **David D. Nasol**

1 COMMENT

David D. Nasol (David.Nasol@des.sc.gov) (5/7/2026 11:13 AM)

attach spreadsheet

CORRECTION REQUEST (APPROVED)

Fuel switch information

The CCCT NO_x BACT section suggests that the NO_x BACT limits do not apply during fuel switches. Provide additional information regarding the fuel switches - e.g. how fuel switch would impact NO_x and other emission rates, how often fuel switches are expected, why the BACT shouldn't apply during fuel switches, and if any other BACT limits would also be impacted.

Created on 5/1/2026 10:00 AM by **David D. Nasol**

1 COMMENT

David D. Nasol (David.Nasol@des.sc.gov) (5/7/2026 11:12 AM)

Not addressed

CORRECTION REQUEST (APPROVED)

Bypass BACT analysis

Provide additional explanation on why controls are not technically or economically feasible.

Created on 3/25/2026 2:46 PM by **David D. Nasol**

Explain why the State Regulation does or does not apply.

The facility is located in one of the 28 PSD source categories (fossil-fueled steam electric plants greater than 250 MMBtu/hr heat input) and will be a new major area source.

State Air Pollution Control Regulations and Standards (8 of 9)

S.C. Regulation 61-62.5, Standard No. 8 Toxic Air Pollutants

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard
S.C. Regulation 61-62.5, Standard No. 8 Toxic Air Pollutants

Applicability
Not Applicable

Explain why the State Regulation does or does not apply.
The Project combustion sources only burn virgin fuel. A de minimis evaluation was performed for TAPs associated with the ULSD storage tanks and fugitive emissions from leaks and all TAPs are below the de minimis and therefore exempt from air quality analysis under Standard No. 8.

State Air Pollution Control Regulations and Standards (9 of 9)

S.C. Regulation 61-62.96 Nitrogen Oxides (NOX) Budget Program

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard
S.C. Regulation 61-62.96 Nitrogen Oxides (NOX) Budget Program

Applicability
Applicable

Explain why the State Regulation does or does not apply.
The Regulation 61-62.96 NOX Budget Program applies to units commencing operation on or after January 1, 1999 that serve a generator that has a nameplate capacity greater than 25 MWe and produces electricity for sale.

40 CFR 60 (1 of 12)

40 CFR 60 Subpart D Fossil-fuel Fired Steam Generators

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard
40 CFR 60 Subpart D Fossil-fuel Fired Steam Generators

Applicability
Not Applicable

Please explain why the Federal Regulation does or does not apply
Although the new auxiliary boiler will be considered a fossil fuel-fired steam generating unit, it will not have a heat input rating more than 250 MMBtu/hr and thus will not be subject to this rule. Because the new turbines will be subject to NSPS Subpart KKKKa, they will not be subject to NSPS Subpart D.

Equipment ID(s)
AUX-1, CT-1, CT-2

40 CFR 60 (2 of 12)

40 CFR 60 Subpart Db Industrial-Commercial-Institutional Steam Generating Units

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

40 CFR 60 Subpart Db Industrial-Commercial-Institutional Steam Generating Units

Applicability

Applicable

Please explain why the Federal Regulation does or does not apply

Subpart Db applies to steam generating units that have a heat input greater than 100 MMBtu/hr for which construction, modification, or reconstruction commenced after June 19, 1984. Duct firing in the HRSGs will be regulated under NSPS Subpart KKKKa; therefore, the HRSGs are exempt from Subpart Db pursuant to 40 CFR 60.4305(b).

Equipment ID(s)	Pollutant/Parameter	Limit (units)	How do you plan to comply?
AUX-1	Capacity Factor	10%	operate under a 10% annual capacity factor

40 CFR 60 (3 of 12)**40 CFR 60 Subpart Dc Small Industrial-Commercial-Institutional Steam Generating Units**

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

40 CFR 60 Subpart Dc Small Industrial-Commercial-Institutional Steam Generating Units

Applicability

Applicable

Please explain why the Federal Regulation does or does not apply

The two new dew point heaters have a heat input of greater than 10 MMBtu/hr. The heat input for the heaters is 10.2 MMBtu/hr.

Equipment ID(s)	Pollutant/Parameter	Limit (units)	How do you plan to comply?
DPH-1, DPH-2	SO ₂	N/A	The new dew point heaters will fire only natural gas; therefore, only notifications of construction and startup and monthly fuel combustion records will be required.
DPH-1, DPH-2	PM	N/A	The new dew point heaters will fire only natural gas; therefore, only notifications of construction and startup and monthly fuel combustion records will be required.

40 CFR 60 (4 of 12)**40 CFR 60 Subpart Dc Small Industrial-Commercial-Institutional Steam Generating Units**

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

40 CFR 60 Subpart Dc Small Industrial-Commercial-Institutional Steam Generating Units

Applicability

Not Applicable

Please explain why the Federal Regulation does or does not apply

The natural gas-fired heaters located at the Compressor Station are not subject to 40 CFR Subpart Dc because their maximum capacity is less than 10 MMBtu/hr.

Equipment ID(s)
CS Heaters-1, CS Heaters-2

40 CFR 60 (5 of 12)**40 CFR 60 Subpart IIII Stationary Compression Ignition Internal Combustion Engines**

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

40 CFR 60 Subpart IIII Stationary Compression Ignition Internal Combustion Engines

Applicability

Applicable

Please explain why the Federal Regulation does or does not apply

The equipment will commence construction after July 11, 2005 and be manufactured after April 1, 2006.

Equipment ID(s)	Pollutant/Parameter	Limit (units)	How do you plan to comply?
EDG-1	CO	2.6 g/hp-hr	Installation of EPA certified tier II engine, Good combustion practices and limited operating hours for testing/maintenance.
EDG-1	NOx	4.8 g/hp-hr	Installation of EPA certified tier II engine, Good combustion practices and limited operating hours for testing/maintenance.
EDG-1	Filterable PM	0.15 g/hp-hr	Installation of U.S. EPA Tier 2 certified engine, good combustion practices and limited operating hours for testing/maintenance
EDG-1	PM10, PM2.5	0.17 g/hp-hr	Installation of U.S. EPA Tier 2 certified engine, Good combustion practices and limited operating hours for testing/maintenance
DFP-1	CO	2.6 g/hp-hr	Installation of an engine certified to the emissions standards in Table 4 of NSPS Subpart IIII, good combustion practices and limited operating hours for testing/maintenance.
DFP-1	NOx	3.0 g/hp-hr	Installation of an engine certified to the emissions standards in Table 4 of NSPS Subpart IIII, good combustion practices and limited operating hours for testing/maintenance.
DFP-1	Filterable PM	0.15 g/hp-hr	Installation of an engine certified to the emissions standards in Table 4 of NSPS Subpart IIII, good combustion practices and limited operating hours for testing/maintenance
DFP-1	PM10, PM2.5	0.18	Installation of an engine certified to the emissions standards in Table 4 of NSPS Subpart IIII, good combustion practices and limited operating hours for testing/maintenance

40 CFR 60 (6 of 12)

40 CFR 60 Subpart JJJJ Stationary Spark Ignition Internal Combustion Engines

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

40 CFR 60 Subpart JJJJ Stationary Spark Ignition Internal Combustion Engines

Applicability

Applicable

Please explain why the Federal Regulation does or does not apply

The new natural gas-fired emergency engine at the compressor station is subject to this rule because it will burn natural gas, its size is greater than 500 hp, and it will be manufactured after January 1, 2007.

Equipment ID(s)	Pollutant/Parameter	Limit (units)	How do you plan to comply?
CS-ENG	NOx	2.0 g/hp-hr	Maintain on-site emissions certifications, record hours of operation, limit operation to 100 hours/year, operate and maintain the engine according to the manufacturer's instructions, install a non-resettable hour meter, and maintain maintenance and compliance records.
CS-ENG	CO	4.0 g/hp-hr	Maintain on-site emissions certifications, record hours of operation, limit operation to 100 hours/year, operate and maintain the engine according to the manufacturer's instructions, install a non-resettable hour meter, and maintain maintenance and compliance records.
CS-ENG	VOC	1.0 g/hp-hr	Maintain on-site emissions certifications, record hours of operation, limit operation to 100 hours/year, operate and maintain the engine according to the manufacturer's instructions, install a non-resettable hour meter, and maintain maintenance and compliance records.

40 CFR 60 (7 of 12)

40 CFR 60 Subpart Kc Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After October 4, 2023

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

40 CFR 60 Subpart Kc Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After October 4, 2023

Applicability

Not Applicable

Please explain why the Federal Regulation does or does not apply

According to the TANKS results, the annual average vapor pressure is 0.0088 psia. The rule does not apply to vessels used only to store VOL with a maximum true vapor pressure less than 0.25 pounds per square inch, absolute (psia). The vapor pressure of ULSD is below this level, therefore the new diesel tanks are not subject.

Equipment ID(s)
TK-1, TK-2

40 CFR 60 (8 of 12)

40 CFR 60 Subpart KKKK Stationary Combustion Turbines

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

40 CFR 60 Subpart KKKK Stationary Combustion Turbines

Applicability

Not Applicable

Please explain why the Federal Regulation does or does not apply

The new Combustion Turbines will be constructed after December 13, 2024 and will be subject to 40 CFR 60 Subpart KKKKa. Stationary combustion turbines subject to the standards in Subpart KKKKa are not subject to the requirements of KKKK.

Equipment ID(s)
NONE PROVIDED

40 CFR 60 (9 of 12)

40 CFR 60 Subpart KKKKa Stationary Combustion Turbines

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

40 CFR 60 Subpart KKKKa Stationary Combustion Turbines

Applicability

Applicable

Please explain why the Federal Regulation does or does not apply

The turbines will be constructed after the applicable date, so they will be subject to Subpart KKKKa. Stationary combustion turbines subject to the standards in Subpart KKKKa are not subject to the requirements of Subpart KKKK.

Equipment ID(s)	Pollutant/Parameter	Limit (units)	How do you plan to comply?
CT-1, CT-2	SO2	0.060 lb SO2/MMbtu	Good combustion practices
CT-1, CT-2	NOx	5 ppm at 15% oxygen (high load natural gas)	SCR, DLN, LNB, and good combustion practices.
CT-1, CT-2	NOx	42 ppm at 15% oxygen (high load ULSD)	SCR, DLN, LNB, and good combustion practices.
CT-1, CT-2	NOx	96 ppm at 15% oxygen (part load)	SCR, DLN, LNB, and good combustion practices.

40 CFR 60 (10 of 12)

40 CFR 60 Subpart OOOOb Crude Oil and Natural Gas Facilities for which Construction, Modification, or Reconstruction Commenced after December 6, 2022

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

40 CFR 60 Subpart OOOOb Crude Oil and Natural Gas Facilities for which Construction, Modification, or Reconstruction Commenced after December 6, 2022

Applicability

Not Applicable

Please explain why the Federal Regulation does or does not apply

DEC is considered a Local Distribution Company (LDC) so the Facility is exempt from NSPS Subpart OOOOb per 60.5365b.

Equipment ID(s)
Compressor Station

40 CFR 60 (11 of 12)

40 CFR 60 Subpart TTTT Greenhouse Gas Emissions for Electric Generating Units

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

40 CFR 60 Subpart TTTT Greenhouse Gas Emissions for Electric Generating Units

Applicability

Not Applicable

Please explain why the Federal Regulation does or does not apply

The stationary combustion turbines will commence construction after May 23, 2023, and are therefore not subject to NSPS Subpart TTTT.

Equipment ID(s)
CT-1, CT-2

40 CFR 60 (12 of 12)

40 CFR 60 Subpart TTTTa Greenhouse Gas Emissions for Modified Coal-Fired Steam Electric Generating Units and New Construction and Reconstruction Stationary Combustion Turbine Electric Generating Units

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

40 CFR 60 Subpart TTTTa Greenhouse Gas Emissions for Modified Coal-Fired Steam Electric Generating Units and New Construction and Reconstruction Stationary Combustion Turbine Electric Generating Units

Applicability

Applicable

Please explain why the Federal Regulation does or does not apply

The Combustion Turbines will commence construction after May 23, 2023 and have a base load greater than 250 MMBtu/hr.

Equipment ID(s)	Pollutant/Parameter	Limit (units)	How do you plan to comply?
CT-1, CT-2	CO2	800-1,250 lb/MWh (gross)	Calculate the average CO2 emissions at the end of the initial and each subsequent 12-month operating period.

40 CFR 63 (1 of 5)

40 CFR 63 Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

40 CFR 63 Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters

Applicability

Not Applicable

Please explain why the Federal Regulation does or does not apply

The rule does not apply because the facility is an area source of HAPs.

Equipment ID(s)
AUX-1, DPH-1, DPH-2, CS Heaters-1, CS Heaters-2

40 CFR 63 (2 of 5)

40 CFR 63 Subpart HHH Natural Gas Transmission and Storage Facilities

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

40 CFR 63 Subpart HHH Natural Gas Transmission and Storage Facilities

Applicability

Not Applicable

Please explain why the Federal Regulation does or does not apply

The facility will not be a major source of HAP emissions; therefore, this rule does not apply.

Equipment ID(s)
Compressor Station

40 CFR 63 (3 of 5)

40 CFR 63 Subpart JJJJJ Industrial, Commercial, And Institutional Boilers Area Sources

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

40 CFR 63 Subpart JJJJJ Industrial, Commercial, And Institutional Boilers Area Sources

Applicability

Not Applicable

Please explain why the Federal Regulation does or does not apply

The rule does not apply to gas-fired boilers and does not apply to process heaters; therefore, the rule does not apply.

Equipment ID(s)
AUX-1, DPH-1, DPH-2

40 CFR 63 (4 of 5)

40 CFR 63 Subpart YYYY Stationary Combustion Turbines

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

40 CFR 63 Subpart YYYY Stationary Combustion Turbines

Applicability

Not Applicable

Please explain why the Federal Regulation does or does not apply

The facility will not be a major source of HAP emissions; therefore, this rule does not apply.

Equipment ID(s)
CT-1, CT-2

40 CFR 63 (5 of 5)

40 CFR 63 Subpart ZZZZ Stationary Reciprocating Internal Combustion Engines

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

40 CFR 63 Subpart ZZZZ Stationary Reciprocating Internal Combustion Engines

Applicability

Applicable

Please explain why the Federal Regulation does or does not apply

The emergency diesel-fired generator engine, natural gas emergency engine, and emergency diesel-fired firewater pump will be new sources located at an area source of HAPs.

Equipment ID(s)	Pollutant/Parameter	Limit (units)	How do you plan to comply?
EDG-1	HAPs	10 tpy for a single HAP and 25 tpy for a combination of HAPs	Pursuant to 40 CFR 63.6590(c), by meeting the requirements of NSPS Subpart IIII for CI ICE, the emergency diesel engines meet the requirements of ZZZZ.
DFP-1	HAPs	10 tpy for a single HAP and 25 tpy for a combination of HAPs	Pursuant to 40 CFR 63.6590(c), by meeting the requirements of NSPS Subpart IIII for CI ICE, the emergency diesel-fired firewater pump engines meet the requirements of ZZZZ.
CS-ENG	HAPS	10 tpy for a single HAP and 25 tpy for a combination of HAPs	Pursuant to 40 CFR 63.6590(c), by meeting the requirements of NSPS Subpart JJJJ for SI ICE, the emergency natural gas-fired emergency engine meet the requirements of ZZZZ.

Other Federal Air Pollution Control Regulations and Standards (1 of 3)

40 CFR 64 CAM - Compliance Assurance Monitoring

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

40 CFR 64 CAM - Compliance Assurance Monitoring

Applicability

Not Applicable

Please explain why the Federal Regulation does or does not apply

Applicability of CAM will be assessed as part of the initial Title V operating permit application.

Equipment ID(s)
NONE PROVIDED

Other Federal Air Pollution Control Regulations and Standards (2 of 3)

40 CFR 72 - Permits Regulation

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

40 CFR 72 - Permits Regulation

Applicability

Applicable

Please explain why the Federal Regulation does or does not apply

The new combined cycle combustion turbines are a covered unit under the Applicability. DEC will submit an application for the new turbines 24 months prior to startup.

Equipment ID(s)	Pollutant/Parameter	Limit (units)	How do you plan to comply?
CT-1, CT-2	SO2	TBD	Submit an Acid Rain permit application for the new turbines 24 months prior to startup.
CT-1, CT-2	NOx	TBD	Submit an Acid Rain permit application for the new turbines 24 months prior to startup.

Other Federal Air Pollution Control Regulations and Standards (3 of 3)

40 CFR 97 - Federal NOX Budget Trading Program, CAIR NOX and SO2 Trading Programs, CSAPR NOX and SO2 Trading Programs, and Texas SO2 Trading Program

Provide additional documentation in the attachment field in the Regulatory Narrative Section.

Regulation/Standard

40 CFR 97 - Federal NOX Budget Trading Program, CAIR NOX and SO2 Trading Programs, CSAPR NOX and SO2 Trading Programs, and Texas SO2 Trading Program

Applicability

Applicable

Please explain why the Federal Regulation does or does not apply

The new combined cycle combustion turbines are a covered unit under the Applicability.

Equipment ID(s)	Pollutant/Parameter	Limit (units)	How do you plan to comply?
CT-1, CT-2	NOx	15 ppm @ 15% oxygen (natural gas)	Use installed CEMS to demonstrate compliance with NSPS Subpart KKKK.
CT-1, CT-2	SO2	TBD	Determine SO2 emissions pursuant to 40 CFR 75.11(e)(1) because the new unit meets the definition of gas-fired units.

Regulatory Narrative

Detailed Regulatory Analysis

Anderson turbine permit app August 2026 Update_Clean.zip - 08/27/2026 08:56 AM

Comment

NONE PROVIDED

Emission Point Information Instructions

The information in this form will provide Emission Point dispersion parameters for any new emission points or any revised emission points. This information is required for all non-exempt sources, regardless of whether or not a particular source was evaluated using air dispersion modeling.

Source data requirements are based on the appropriate source classification. Each emission source is classified as a point, area, volume, or flare source. Contact the Bureau of Air Quality for clarification of data requirements. Include source on-site map. Also, a picture of area or volume sources would be helpful but is not required. A user generated document or spreadsheet may be substituted in lieu of this form provided the required emission point parameters are submitted in the same order as presented in these tables.

Please click the link below for full instructions regarding this form. The applicant needs to read the instructions before filling out the form.
[Emission Point Data Instructions](#)

Do you want to upload a user generated document or spreadsheet in lieu of filling out the Emission Point Data form?
No

Emission Point Data (1 of 19)

Point Source

Emission Point Type
Point Source

If a merged (worst-case) stack is used to model combined emissions from a group of stacks, this form should be completed separately for each stack in the group, including the merged (worst-case stack). The merged stack parameter (M) calculations (refer to the South Carolina Modeling Guidelines for Air Quality Permits) should be included in the Additional Information box below and/or the Air Quality Analysis report.

Emission Point ID
CT_W

Description/Name
West Combustion Turbine

Please indicate the emission point latitude/longitude by clicking on the location of the emission point on the map below, or by entering the latitude/longitude in the fields below the map. [Note: The emission point location in UTM is required later in this form.]

Emission Point Location
34.445051,-82.662749

Source Location (UTM)

Easting (m)	Northing (m)
347246.39	3812757.98

Point Source Information

Release Height AGL (ft)	Exit Temperature (F)	Modeled Exit Velocity (ft/sec)	Actual Exit Velocity (ft/sec)	Inside Diameter (ft)	Discharge Orientation	Rain Cap?
200	165	66.5	66.5	23.5	Vertical	No

Point and Flare Source Data

Distance to Nearest Property Boundary (ft)	Building Height (ft)	Building Length (ft)	Building Width (ft)
405	107	88	42

Choose the standard(s) that apply to this Emission Point ID:
Standard 2
Standard 7

Emissions provided should be the Maximum 1-hour emission rates. If the modeled rates are averaged over some time period, the averaging technique must be explained in the Air Quality Analysis Report. Also, any differences between the evaluated rates and the permitted rates must be explained.

STANDARD NO. 2 ♦ AMBIENT AIR QUALITY STANDARDS EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx	CO	Lead
CT_W	119.3	119.3	6.8	98.0	16.9	NONE PROVIDED

STANDARD NO. 7 - PSD CLASS II INCREMENT EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx
CT_W	119.3	119.3	6.8	98.0

Additional information

NONE PROVIDED

Emission Point Data (2 of 19)

Point Source

Emission Point Type

Point Source

If a merged (worst-case) stack is used to model combined emissions from a group of stacks, this form should be completed separately for each stack in the group, including the merged (worst-case stack). The merged stack parameter (M) calculations (refer to the South Carolina Modeling Guidelines for Air Quality Permits) should be included in the Additional Information box below and/or the Air Quality Analysis report.

Emission Point ID

CT_E

Description/Name

East Combustion Turbine

Please indicate the emission point latitude/longitude by clicking on the location of the emission point on the map below, or by entering the latitude/longitude in the fields below the map. [Note: The emission point location in UTM is required later in this form.]

Emission Point Location

34.445058,-82.662201

Source Location (UTM)

Easting (m)	Northing (m)
347296.69	3812757.97

Point Source Information

Release Height AGL (ft)	Exit Temperature (F)	Modeled Exit Velocity (ft/sec)	Actual Exit Velocity (ft/sec)	Inside Diameter (ft)	Discharge Orientation	Rain Cap?
200	165	66.5	66.5	23.5	Vertical	No

Point and Flare Source Data

Distance to Nearest Property Boundary (ft)	Building Height (ft)	Building Length (ft)	Building Width (ft)
276	107	88	42

Choose the standard(s) that apply to this Emission Point ID:

Standard 2

Standard 7

Emissions provided should be the Maximum 1-hour emission rates. If the modeled rates are averaged over some time period, the averaging technique must be explained in the Air Quality Analysis Report. Also, any differences between the evaluated rates and the permitted rates must be explained.

STANDARD NO. 2 AMBIENT AIR QUALITY STANDARDS EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx	CO	Lead
CT_E	119.3	119.3	6.8	98.0	16.9	NONE PROVIDED

STANDARD NO. 7 - PSD CLASS II INCREMENT EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx
CT_E	119.3	119.3	6.8	98.0

Additional information

NONE PROVIDED

Emission Point Data (3 of 19)

Point Source

Emission Point Type

Point Source

If a merged (worst-case) stack is used to model combined emissions from a group of stacks, this form should be completed separately for each stack in the group, including the merged (worst-case stack). The merged stack parameter (M) calculations (refer to the South Carolina Modeling Guidelines for Air Quality Permits) should be included in the Additional Information box below and/or the Air Quality Analysis report.

Emission Point ID

BYPASS_W

Description/Name

West Bypass Stack

Please indicate the emission point latitude/longitude by clicking on the location of the emission point on the map below, or by entering the latitude/longitude in the fields below the map. [Note: The emission point location in UTM is required later in this form.]

Emission Point Location

34.444586,-82.66274

Source Location (UTM)

Easting (m)	Northing (m)
347246.37	3812706.40

Point Source Information

Release Height AGL (ft)	Exit Temperature (F)	Modeled Exit Velocity (ft/sec)	Actual Exit Velocity (ft/sec)	Inside Diameter (ft)	Discharge Orientation	Rain Cap?
150	1138	139.4	139.4	26.5	Vertical	No

Point and Flare Source Data

Distance to Nearest Property Boundary (ft)	Building Height (ft)	Building Length (ft)	Building Width (ft)
506	107	88	42

Choose the standard(s) that apply to this Emission Point ID:

Standard 2

Standard 7

Emissions provided should be the Maximum 1-hour emission rates. If the modeled rates are averaged over some time period, the averaging technique must be explained in the Air Quality Analysis Report. Also, any differences between the evaluated rates and the permitted rates must be explained.

STANDARD NO. 2 ♦ AMBIENT AIR QUALITY STANDARDS EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx	CO	Lead
BYPASS_W	NONE PROVIDED	NONE PROVIDED	NONE PROVIDED	233.4	59.1	NONE PROVIDED

STANDARD NO. 7 - PSD CLASS II INCREMENT EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx
BYPASS_W	NONE PROVIDED	NONE PROVIDED	NONE PROVIDED	233.4

Additional information

NONE PROVIDED

Emission Point Data (4 of 19)

Point Source

Emission Point Type

Point Source

If a merged (worst-case) stack is used to model combined emissions from a group of stacks, this form should be completed separately for each stack in the group, including the merged (worst-case stack). The merged stack parameter (M) calculations (refer to the South Carolina Modeling Guidelines for Air Quality Permits) should be included in the Additional Information box below and/or the Air Quality Analysis report.

Emission Point ID

BYPASS_E

Description/Name

East Bypass Stack

Please indicate the emission point latitude/longitude by clicking on the location of the emission point on the map below, or by entering the latitude/longitude in the fields below the map. [Note: The emission point location in UTM is required later in this form.]

Emission Point Location

34.444593,-82.662192

Source Location (UTM)

Easting (m)	Northing (m)
347296.67	3812706.39

Point Source Information

Release Height AGL (ft)	Exit Temperature (F)	Modeled Exit Velocity (ft/sec)	Actual Exit Velocity (ft/sec)	Inside Diameter (ft)	Discharge Orientation	Rain Cap?
150	1138	139.4	139.4	26.5	Vertical	No

Point and Flare Source Data

Distance to Nearest Property Boundary (ft)	Building Height (ft)	Building Length (ft)	Building Width (ft)
383	107	88	42

Choose the standard(s) that apply to this Emission Point ID:

Standard 2

Standard 7

Emissions provided should be the Maximum 1-hour emission rates. If the modeled rates are averaged over some time period, the averaging technique must be explained in the Air Quality Analysis Report. Also, any differences between the evaluated rates and the permitted rates must be explained.

STANDARD NO. 2 ♦ AMBIENT AIR QUALITY STANDARDS EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx	CO	Lead
BYPASS_E	NONE PROVIDED	NONE PROVIDED	NONE PROVIDED	233.4	59.1	NONE PROVIDED

STANDARD NO. 7 - PSD CLASS II INCREMENT EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx
BYPASS_E	NONE PROVIDED	NONE PROVIDED	NONE PROVIDED	233.4

Additional information
NONE PROVIDED

Emission Point Data (5 of 19)

Point Source

Emission Point Type
Point Source

If a merged (worst-case) stack is used to model combined emissions from a group of stacks, this form should be completed separately for each stack in the group, including the merged (worst-case stack). The merged stack parameter (M) calculations (refer to the South Carolina Modeling Guidelines for Air Quality Permits) should be included in the Additional Information box below and/or the Air Quality Analysis report.

Emission Point ID
AUX_BLR

Description/Name
Auxiliary Boiler

Please indicate the emission point latitude/longitude by clicking on the location of the emission point on the map below, or by entering the latitude/longitude in the fields below the map. [Note: The emission point location in UTM is required later in this form.]

Emission Point Location
34.444879,-82.66347

Source Location (UTM)	Easting (m)	Northing (m)
	347179.81	3812739.99

Point Source Information	Release Height AGL (ft)	Exit Temperature (F)	Modeled Exit Velocity (ft/sec)	Actual Exit Velocity (ft/sec)	Inside Diameter (ft)	Discharge Orientation	Rain Cap?
	100	478	17.9	17.9	2.0	Vertical	No

Point and Flare Source Data	Distance to Nearest Property Boundary (ft)	Building Height (ft)	Building Length (ft)	Building Width (ft)
	656	100	328	285

Choose the standard(s) that apply to this Emission Point ID:
Standard 2
Standard 7

Emissions provided should be the Maximum 1-hour emission rates. If the modeled rates are averaged over some time period, the averaging technique must be explained in the Air Quality Analysis Report. Also, any differences between the evaluated rates and the permitted rates must be explained.

STANDARD NO. 2  AMBIENT AIR QUALITY STANDARDS EMISSIONS (LBS/HR)	Emission Point ID	PM10	PM2.5	SO2	NOx	CO	Lead
	AUX_BLR	0.92	0.92	0.07	17.0	10.2	NONE PROVIDED

STANDARD NO. 7 - PSD CLASS II INCREMENT EMISSIONS (LBS/HR)	Emission Point ID	PM10	PM2.5	SO2	NOx
	AUX_BLR	0.92	0.92	0.07	17.0

Additional information
NONE PROVIDED

Emission Point Data (6 of 19)

Point Source

Emission Point Type

Point Source

If a merged (worst-case) stack is used to model combined emissions from a group of stacks, this form should be completed separately for each stack in the group, including the merged (worst-case stack). The merged stack parameter (M) calculations (refer to the South Carolina Modeling Guidelines for Air Quality Permits) should be included in the Additional Information box below and/or the Air Quality Analysis report.

Emission Point ID

DPHEAT_1

Description/Name

Dewpoint Heater #1

Please indicate the emission point latitude/longitude by clicking on the location of the emission point on the map below, or by entering the latitude/longitude in the fields below the map. [Note: The emission point location in UTM is required later in this form.]

Emission Point Location

34.444912,-82.661228

Source Location (UTM)

Easting (m)	Northing (m)
347385.87	3812740.35

Point Source Information

Release Height AGL (ft)	Exit Temperature (F)	Modeled Exit Velocity (ft/sec)	Actual Exit Velocity (ft/sec)	Inside Diameter (ft)	Discharge Orientation	Rain Cap?
12	489	10.0	10.0	2.7	Vertical	No

Point and Flare Source Data

Distance to Nearest Property Boundary (ft)	Building Height (ft)	Building Length (ft)	Building Width (ft)
97	107	88	42

Choose the standard(s) that apply to this Emission Point ID:

Standard 2

Standard 7

Emissions provided should be the Maximum 1-hour emission rates. If the modeled rates are averaged over some time period, the averaging technique must be explained in the Air Quality Analysis Report. Also, any differences between the evaluated rates and the permitted rates must be explained.

STANDARD NO. 2 AMBIENT AIR QUALITY STANDARDS EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx	CO	Lead
DPHEAT_1	0.08	0.08	0.01	1.00	0.84	NONE PROVIDED

STANDARD NO. 7 - PSD CLASS II INCREMENT EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx
DPHEAT_1	0.08	0.08	0.01	1.00

Additional information

NONE PROVIDED

Emission Point Data (7 of 19)

Point Source

Emission Point Type

Point Source

If a merged (worst-case) stack is used to model combined emissions from a group of stacks, this form should be completed separately for each stack in the group, including the merged (worst-case stack). The merged stack parameter (M) calculations (refer to the South Carolina Modeling Guidelines for Air Quality Permits) should be included in the Additional Information box below and/or the Air Quality Analysis report.

Emission Point ID

DPHEAT_2

Description/Name

Dewpoint Heater #2

Please indicate the emission point latitude/longitude by clicking on the location of the emission point on the map below, or by entering the latitude/longitude in the fields below the map. [Note: The emission point location in UTM is required later in this form.]

Emission Point Location

34.444819,-82.661226

Source Location (UTM)

Easting (m)	Northing (m)
347385.87	3812730.06

Point Source Information

Release Height AGL (ft)	Exit Temperature (F)	Modeled Exit Velocity (ft/sec)	Actual Exit Velocity (ft/sec)	Inside Diameter (ft)	Discharge Orientation	Rain Cap?
12	489	10.0	10.0	2.7	Vertical	No

Point and Flare Source Data

Distance to Nearest Property Boundary (ft)	Building Height (ft)	Building Length (ft)	Building Width (ft)
119	107	88	42

Choose the standard(s) that apply to this Emission Point ID:

Standard 2

Standard 7

Emissions provided should be the Maximum 1-hour emission rates. If the modeled rates are averaged over some time period, the averaging technique must be explained in the Air Quality Analysis Report. Also, any differences between the evaluated rates and the permitted rates must be explained.

STANDARD NO. 2 AMBIENT AIR QUALITY STANDARDS EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx	CO	Lead
DPHEAT_2	0.08	0.08	0.01	1.00	0.84	NONE PROVIDED

STANDARD NO. 7 - PSD CLASS II INCREMENT EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx
DPHEAT_2	0.08	0.08	0.01	1.00

Additional information

NONE PROVIDED

Emission Point Data (8 of 19)

Point Source

Emission Point Type
Point Source

If a merged (worst-case) stack is used to model combined emissions from a group of stacks, this form should be completed separately for each stack in the group, including the merged (worst-case stack). The merged stack parameter (M) calculations (refer to the South Carolina Modeling Guidelines for Air Quality Permits) should be included in the Additional Information box below and/or the Air Quality Analysis report.

Emission Point ID
EM_GEN

Description/Name
Diesel Emergency Generator

Please indicate the emission point latitude/longitude by clicking on the location of the emission point on the map below, or by entering the latitude/longitude in the fields below the map. [Note: The emission point location in UTM is required later in this form.]

Emission Point Location
34.44371,-82.662313

Source Location (UTM)

Easting (m)	Northing (m)
347283.98	3812608.65

Point Source Information

Release Height AGL (ft)	Exit Temperature (F)	Modeled Exit Velocity (ft/sec)	Actual Exit Velocity (ft/sec)	Inside Diameter (ft)	Discharge Orientation	Rain Cap?
10	650	10.0	10.0	1.0	Vertical	No

Point and Flare Source Data

Distance to Nearest Property Boundary (ft)	Building Height (ft)	Building Length (ft)	Building Width (ft)
593	10	13	30

Choose the standard(s) that apply to this Emission Point ID:
Standard 2
Standard 7

Emissions provided should be the Maximum 1-hour emission rates. If the modeled rates are averaged over some time period, the averaging technique must be explained in the Air Quality Analysis Report. Also, any differences between the evaluated rates and the permitted rates must be explained.

STANDARD NO. 2 ♦ AMBIENT AIR QUALITY STANDARDS EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx	CO	Lead
EM_GEN	1.1	1.1	0.03	31.0	16.9	NONE PROVIDED

STANDARD NO. 7 - PSD CLASS II INCREMENT EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx
EM_GEN	1.1	1.1	0.03	31.0

Additional information
NONE PROVIDED

Emission Point Data (9 of 19)

Point Source

Emission Point Type
Point Source

If a merged (worst-case) stack is used to model combined emissions from a group of stacks, this form should be completed separately for each stack in the group, including the merged (worst-case stack). The merged stack parameter (M) calculations (refer to the South Carolina Modeling Guidelines for Air Quality Permits) should be included in the Additional Information box below and/or the Air Quality Analysis report.

Emission Point ID
FW_PMP

Description/Name
Diesel Fire Pump

Please indicate the emission point latitude/longitude by clicking on the location of the emission point on the map below, or by entering the latitude/longitude in the fields below the map. [Note: The emission point location in UTM is required later in this form.]

Emission Point Location
34.445134,-82.663147

Easting (m)	Northing (m)
347209.97	3812767.87

Release Height AGL (ft)	Exit Temperature (F)	Modeled Exit Velocity (ft/sec)	Actual Exit Velocity (ft/sec)	Inside Diameter (ft)	Discharge Orientation	Rain Cap?
5	667	20.7	20.7	0.2	Vertical	No

Distance to Nearest Property Boundary (ft)	Building Height (ft)	Building Length (ft)	Building Width (ft)
494	100	328	285

Choose the standard(s) that apply to this Emission Point ID:
Standard 2
Standard 7

Emissions provided should be the Maximum 1-hour emission rates. If the modeled rates are averaged over some time period, the averaging technique must be explained in the Air Quality Analysis Report. Also, any differences between the evaluated rates and the permitted rates must be explained.

STANDARD NO. 2 AMBIENT AIR QUALITY STANDARDS EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx	CO	Lead
FW_PMP	0.15	0.15	0.004	2.5	2.2	NONE PROVIDED

STANDARD NO. 7 - PSD CLASS II INCREMENT EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx
FW_PMP	0.15	0.15	0.004	2.5

Additional information
NONE PROVIDED

Emission Point Data (10 of 19)

Point Source

Emission Point Type
Point Source

If a merged (worst-case) stack is used to model combined emissions from a group of stacks, this form should be completed separately for each stack in the group, including the merged (worst-case stack). The merged stack parameter (M) calculations (refer

to the South Carolina Modeling Guidelines for Air Quality Permits) should be included in the Additional Information box below and/or the Air Quality Analysis report.

Emission Point ID
CP_EMGEN

Description/Name
Compressor Emergency Generator

Please indicate the emission point latitude/longitude by clicking on the location of the emission point on the map below, or by entering the latitude/longitude in the fields below the map. [Note: The emission point location in UTM is required later in this form.]

Emission Point Location
34.446721,-82.662562

Easting (m)	Northing (m)
347266.58	3812943.01

Release Height AGL (ft)	Exit Temperature (F)	Modeled Exit Velocity (ft/sec)	Actual Exit Velocity (ft/sec)	Inside Diameter (ft)	Discharge Orientation	Rain Cap?
10	650	10.0	10.0	1.0	Vertical	No

Distance to Nearest Property Boundary (ft)	Building Height (ft)	Building Length (ft)	Building Width (ft)
348	55	83	145

Choose the standard(s) that apply to this Emission Point ID:
Standard 2
Standard 7

Emissions provided should be the Maximum 1-hour emission rates. If the modeled rates are averaged over some time period, the averaging technique must be explained in the Air Quality Analysis Report. Also, any differences between the evaluated rates and the permitted rates must be explained.

STANDARD NO. 2 ♦ AMBIENT AIR QUALITY STANDARDS EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx	CO	Lead
CP_EMGEN	0.08	0.08	0.002	1.3	2.6	NONE PROVIDED

STANDARD NO. 7 - PSD CLASS II INCREMENT EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx
CP_EMGEN	0.08	0.08	0.002	1.3

Additional information
NONE PROVIDED

Emission Point Data (11 of 19)

Point Source

Emission Point Type
Point Source

If a merged (worst-case) stack is used to model combined emissions from a group of stacks, this form should be completed separately for each stack in the group, including the merged (worst-case stack). The merged stack parameter (M) calculations (refer to the South Carolina Modeling Guidelines for Air Quality Permits) should be included in the Additional Information box below and/or the Air Quality Analysis report.

Emission Point ID
CP_OHT01

Description/Name
Small Outside NG Heater #1

Please indicate the emission point latitude/longitude by clicking on the location of the emission point on the map below, or by entering the latitude/longitude in the fields below the map. [Note: The emission point location in UTM is required later in this form.]

Emission Point Location
34.446269,-82.662667

Easting (m)	Northing (m)
347256.15	3812892.99

Release Height AGL (ft)	Exit Temperature (F)	Modeled Exit Velocity (ft/sec)	Actual Exit Velocity (ft/sec)	Inside Diameter (ft)	Discharge Orientation	Rain Cap?
3	200	3.3	3.3	0.5	Vertical	No

Distance to Nearest Property Boundary (ft)	Building Height (ft)	Building Length (ft)	Building Width (ft)
351	100	328	285

Choose the standard(s) that apply to this Emission Point ID:
Standard 2
Standard 7

Emissions provided should be the Maximum 1-hour emission rates. If the modeled rates are averaged over some time period, the averaging technique must be explained in the Air Quality Analysis Report. Also, any differences between the evaluated rates and the permitted rates must be explained.

Emission Point ID	PM10	PM2.5	SO2	NOx	CO	Lead
CP_OHT01	0.0000224	0.0000224	0.00000176	0.000294	0.000247	NONE PROVIDED

Emission Point ID	PM10	PM2.5	SO2	NOx
CP_OHT01	0.0000224	0.0000224	0.00000176	0.000294

Additional information
NONE PROVIDED

Emission Point Data (12 of 19)

Point Source

Emission Point Type
Point Source

If a merged (worst-case) stack is used to model combined emissions from a group of stacks, this form should be completed separately for each stack in the group, including the merged (worst-case stack). The merged stack parameter (M) calculations (refer to the South Carolina Modeling Guidelines for Air Quality Permits) should be included in the Additional Information box below and/or the Air Quality Analysis report.

Emission Point ID
CP_OHT02

Description/Name
Small Outside NG Heater #2

Please indicate the emission point latitude/longitude by clicking on the location of the emission point on the map below, or by entering the latitude/longitude in the fields below the map. [Note: The emission point location in UTM is required later in this form.]

Emission Point Location
34.44627,-82.662572

Easting (m)	Northing (m)
347264.90	3812892.99

Release Height AGL (ft)	Exit Temperature (F)	Modeled Exit Velocity (ft/sec)	Actual Exit Velocity (ft/sec)	Inside Diameter (ft)	Discharge Orientation	Rain Cap?
3	200	3.3	3.3	0.5	Vertical	No

Distance to Nearest Property Boundary (ft)	Building Height (ft)	Building Length (ft)	Building Width (ft)
325	100	328	285

Choose the standard(s) that apply to this Emission Point ID:
Standard 2
Standard 7

Emissions provided should be the Maximum 1-hour emission rates. If the modeled rates are averaged over some time period, the averaging technique must be explained in the Air Quality Analysis Report. Also, any differences between the evaluated rates and the permitted rates must be explained.

STANDARD NO. 2  AMBIENT AIR QUALITY STANDARDS EMISSIONS (LBS/HR)						
Emission Point ID	PM10	PM2.5	SO2	NOx	CO	Lead
CP_OHT02	0.0000224	0.0000224	0.00000176	0.000294	0.000247	NONE PROVIDED

STANDARD NO. 7 - PSD CLASS II INCREMENT EMISSIONS (LBS/HR)				
Emission Point ID	PM10	PM2.5	SO2	NOx
CP_OHT02	0.0000224	0.0000224	0.00000176	0.000294

Additional information
NONE PROVIDED

Emission Point Data (13 of 19)

Point Source

Emission Point Type
Point Source

If a merged (worst-case) stack is used to model combined emissions from a group of stacks, this form should be completed separately for each stack in the group, including the merged (worst-case stack). The merged stack parameter (M) calculations (refer to the South Carolina Modeling Guidelines for Air Quality Permits) should be included in the Additional Information box below and/or the Air Quality Analysis report.

Emission Point ID
CP_OHT03

Description/Name
Small Outside NG Heater #3

Please indicate the emission point latitude/longitude by clicking on the location of the emission point on the map below, or by entering the latitude/longitude in the fields below the map. [Note: The emission point location in UTM is required later in this form.]

Emission Point Location

34.446271,-82.662484

Source Location (UTM)

Easting (m)	Northing (m)
347272.90	3812892.99

Point Source Information

Release Height AGL (ft)	Exit Temperature (F)	Modeled Exit Velocity (ft/sec)	Actual Exit Velocity (ft/sec)	Inside Diameter (ft)	Discharge Orientation	Rain Cap?
3	200	3.3	3.3	0.5	Vertical	No

Point and Flare Source Data

Distance to Nearest Property Boundary (ft)	Building Height (ft)	Building Length (ft)	Building Width (ft)
299	100	328	285

Choose the standard(s) that apply to this Emission Point ID:

Standard 2

Standard 7

Emissions provided should be the Maximum 1-hour emission rates. If the modeled rates are averaged over some time period, the averaging technique must be explained in the Air Quality Analysis Report. Also, any differences between the evaluated rates and the permitted rates must be explained.

STANDARD NO. 2 AMBIENT AIR QUALITY STANDARDS EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx	CO	Lead
CP_OHT03	0.0000224	0.0000224	0.00000176	0.000294	0.000247	NONE PROVIDED

STANDARD NO. 7 - PSD CLASS II INCREMENT EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx
CP_OHT03	0.0000224	0.0000224	0.00000176	0.000294

Additional information

NONE PROVIDED

Emission Point Data (14 of 19)

Point Source

Emission Point Type

Point Source

If a merged (worst-case) stack is used to model combined emissions from a group of stacks, this form should be completed separately for each stack in the group, including the merged (worst-case stack). The merged stack parameter (M) calculations (refer to the South Carolina Modeling Guidelines for Air Quality Permits) should be included in the Additional Information box below and/or the Air Quality Analysis report.

Emission Point ID

CP_OHT04

Description/Name

Small Outside NG Heater #4

Please indicate the emission point latitude/longitude by clicking on the location of the emission point on the map below, or by entering the

latitude/longitude in the fields below the map. [Note: The emission point location in UTM is required later in this form.]

Emission Point Location
34.446273,-82.662397

Source Location (UTM)	
Easting (m)	Northing (m)
347280.90	3812892.99

Point Source Information						
Release Height AGL (ft)	Exit Temperature (F)	Modeled Exit Velocity (ft/sec)	Actual Exit Velocity (ft/sec)	Inside Diameter (ft)	Discharge Orientation	Rain Cap?
3	200	3.3	3.3	0.5	Vertical	No

Point and Flare Source Data			
Distance to Nearest Property Boundary (ft)	Building Height (ft)	Building Length (ft)	Building Width (ft)
272	100	328	285

Choose the standard(s) that apply to this Emission Point ID:
Standard 2
Standard 7

Emissions provided should be the Maximum 1-hour emission rates. If the modeled rates are averaged over some time period, the averaging technique must be explained in the Air Quality Analysis Report. Also, any differences between the evaluated rates and the permitted rates must be explained.

STANDARD NO. 2  AMBIENT AIR QUALITY STANDARDS EMISSIONS (LBS/HR)						
Emission Point ID	PM10	PM2.5	SO2	NOx	CO	Lead
CP_OHT04	0.0000224	0.0000224	0.00000176	0.000294	0.000247	NONE PROVIDED

STANDARD NO. 7 - PSD CLASS II INCREMENT EMISSIONS (LBS/HR)				
Emission Point ID	PM10	PM2.5	SO2	NOx
CP_OHT04	0.0000224	0.0000224	0.00000176	0.000294

Additional information
NONE PROVIDED

Emission Point Data (15 of 19)

Volume Source

Emission Point Type
Volume Source

Emission Point ID
CP_IHT01

Description/Name
Rooftop vent for Indoor NG Heaters #1

Please indicate the emission point latitude/longitude by clicking on the location of the emission point on the map below, or by entering the latitude/longitude in the fields below the map. [Note: The emission point location in UTM is required later in this form.]

Emission Point Location
34.446442,-82.662628

Source Location (UTM)	
Easting (m)	Northing (m)

Easting (m)	Northing (m)
347260.00	3812912.08

Volume Source Data

Release Height AGL (ft)	Physical Horizontal Dimension (ft)	Initial Horizontal Dimension - sigma y (ft)	Physical Vertical Dimension (ft)	Initial Vertical Dimension - sigma z (ft)	Distance To Nearest Property Boundary (ft)
55	83	0.4	55	26	354

Choose the standard(s) that apply to this Emission Point ID:

Standard 2
Standard 7

Emissions provided should be the Maximum 1-hour emission rates. If the modeled rates are averaged over some time period, the averaging technique must be explained in the Air Quality Analysis Report. Also, any differences between the evaluated rates and the permitted rates must be explained.

STANDARD NO. 2 AMBIENT AIR QUALITY STANDARDS EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx	CO	Lead
CP_IHT01	0.00215	0.00215	0.00017	0.0282	0.0237	NONE PROVIDED

STANDARD NO. 7 - PSD CLASS II INCREMENT EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx
CP_IHT01	0.00215	0.00215	0.00017	0.0282

Additional information

NONE PROVIDED

Emission Point Data (16 of 19)

Volume Source

Emission Point Type

Volume Source

Emission Point ID

CP_IHT02

Description/Name

Rooftop vent for Indoor NG Heaters #2

Please indicate the emission point latitude/longitude by clicking on the location of the emission point on the map below, or by entering the latitude/longitude in the fields below the map. [Note: The emission point location in UTM is required later in this form.]

Emission Point Location

34.446442,-82.662574

Source Location (UTM)

Easting (m)	Northing (m)
347265.00	3812912.01

Volume Source Data

Release Height AGL (ft)	Physical Horizontal Dimension (ft)	Initial Horizontal Dimension - sigma y (ft)	Physical Vertical Dimension (ft)	Initial Vertical Dimension - sigma z (ft)	Distance To Nearest Property Boundary (ft)
55	83	0.4	55	26	338

Choose the standard(s) that apply to this Emission Point ID:
Standard 2
Standard 7

Emissions provided should be the Maximum 1-hour emission rates. If the modeled rates are averaged over some time period, the averaging technique must be explained in the Air Quality Analysis Report. Also, any differences between the evaluated rates and the permitted rates must be explained.

STANDARD NO. 2 AMBIENT AIR QUALITY STANDARDS EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx	CO	Lead
CP_IHT02	0.00215	0.00215	0.00017	0.0282	0.0237	NONE PROVIDED

STANDARD NO. 7 - PSD CLASS II INCREMENT EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx
CP_IHT02	0.00215	0.00215	0.00017	0.0282

Additional information
NONE PROVIDED

Emission Point Data (17 of 19)

Volume Source

Emission Point Type
Volume Source

Emission Point ID
CP_IHT03

Description/Name
Rooftop vent for Indoor NG Heaters #3

Please indicate the emission point latitude/longitude by clicking on the location of the emission point on the map below, or by entering the latitude/longitude in the fields below the map. [Note: The emission point location in UTM is required later in this form.]

Emission Point Location
34.446443,-82.662519

Source Location (UTM)

Easting (m)	Northing (m)
347270.00	3812912.08

Volume Source Data

Release Height AGL (ft)	Physical Horizontal Dimension (ft)	Initial Horizontal Dimension - sigma y (ft)	Physical Vertical Dimension (ft)	Initial Vertical Dimension - sigma z (ft)	Distance To Nearest Property Boundary (ft)
55	83	0.4	55	26	322

Choose the standard(s) that apply to this Emission Point ID:
Standard 2
Standard 7

Emissions provided should be the Maximum 1-hour emission rates. If the modeled rates are averaged over some time period, the averaging technique must be explained in the Air Quality Analysis Report. Also, any differences between the evaluated rates and the permitted rates must be explained.

STANDARD NO. 2 AMBIENT AIR QUALITY STANDARDS EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx	CO	Lead
CP_IHT03	0.00215	0.00215	0.00017	0.0282	0.0237	NONE PROVIDED

STANDARD NO. 7 - PSD CLASS II INCREMENT EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx
CP_IHT03	0.00215	0.00215	0.00017	0.0282

Additional information

NONE PROVIDED

Emission Point Data (18 of 19)

Volume Source

Emission Point Type

Volume Source

Emission Point ID

CP_IHT04

Description/Name

Rooftop vent for Indoor NG Heaters #4

Please indicate the emission point latitude/longitude by clicking on the location of the emission point on the map below, or by entering the latitude/longitude in the fields below the map. [Note: The emission point location in UTM is required later in this form.]

Emission Point Location

34.446444,-82.662465

Source Location (UTM)

Easting (m)	Northing (m)
347275.00	3812912.08

Volume Source Data

Release Height AGL (ft)	Physical Horizontal Dimension (ft)	Initial Horizontal Dimension - sigma y (ft)	Physical Vertical Dimension (ft)	Initial Vertical Dimension - sigma z (ft)	Distance To Nearest Property Boundary (ft)
55	83	0.4	55	26	305

Choose the standard(s) that apply to this Emission Point ID:

Standard 2

Standard 7

Emissions provided should be the Maximum 1-hour emission rates. If the modeled rates are averaged over some time period, the averaging technique must be explained in the Air Quality Analysis Report. Also, any differences between the evaluated rates and the permitted rates must be explained.

STANDARD NO. 2 AMBIENT AIR QUALITY STANDARDS EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx	CO	Lead
CP_IHT04	0.00215	0.00215	0.00017	0.0282	0.0237	NONE PROVIDED

STANDARD NO. 7 - PSD CLASS II INCREMENT EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx
CP_IHT04	0.00215	0.00215	0.00017	0.0282

Additional information

NONE PROVIDED

Emission Point Data (19 of 19)

Volume Source

Emission Point Type

Volume Source

Emission Point ID

CP_IHT05

Description/Name

Rooftop vent for Indoor NG Heaters #5

Please indicate the emission point latitude/longitude by clicking on the location of the emission point on the map below, or by entering the latitude/longitude in the fields below the map. [Note: The emission point location in UTM is required later in this form.]

Emission Point Location

34.446445,-82.662411

Source Location (UTM)

Easting (m)	Northing (m)
347280.00	3812912.08

Volume Source Data

Release Height AGL (ft)	Physical Horizontal Dimension (ft)	Initial Horizontal Dimension - sigma y (ft)	Physical Vertical Dimension (ft)	Initial Vertical Dimension - sigma z (ft)	Distance To Nearest Property Boundary (ft)
55	83	0.4	55	26	289

Choose the standard(s) that apply to this Emission Point ID:

Standard 2

Standard 7

Emissions provided should be the Maximum 1-hour emission rates. If the modeled rates are averaged over some time period, the averaging technique must be explained in the Air Quality Analysis Report. Also, any differences between the evaluated rates and the permitted rates must be explained.

STANDARD NO. 2 AMBIENT AIR QUALITY STANDARDS EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx	CO	Lead
CP_IHT05	0.00215	0.00215	0.00017	0.0282	0.0237	NONE PROVIDED

STANDARD NO. 7 - PSD CLASS II INCREMENT EMISSIONS (LBS/HR)

Emission Point ID	PM10	PM2.5	SO2	NOx
CP_IHT05	0.00215	0.00215	0.00017	0.0282

Additional information

NONE PROVIDED

Modeling Files

Attach Modeling Files and Air Quality Analysis/Report to address compliance with Standards 2, 7, and/or 8.

NONE PROVIDED

Comment

Modeling files will be provided to SCDES at a later date through another mechanism due to upload issues with ePermitting.

Contact(s)

Air Permitting Contact(s) - This should be the facility representative that can answer technical questions about the facility and permit application. This should not be a consultant.

Air Permitting Contact

Prefix

Ms.

First Name

Tena

Middle Name

NONE PROVIDED

Last Name

Hopkins

Title

Lead EHS Consultant

Phone Type**Number****Extension**

Business

317-838-1462

Email

Tena.Hopkins@duke-energy.com

Mailing Address

1000 E Main St.

Plainfield, IN 46168-1765

United States

Is there an additional Air Permitting Contact?

No

The Air Billing Contact is the person who can answer billing questions and receives all mailed air quality invoices.

Air Billing Contact

Prefix

Ms.

First Name

Erin

Middle Name

E

Last Name

Wallace

Title

Environmental Operations - Air

Phone Type**Number****Extension**

Business

9195465797

Email

Erin.Wallace@duke-energy.com

Mailing Address

410 S WILMINGTON ST

NCRH08

RALEIGH, NC 27601-1849

United States

Signatory Authority

The owner or operator is any person who owns, leases, operates, controls, or supervises a source of air emissions. This cannot be the consultant, unless the consultant is contracted to perform these activities.

The information in this section should be for the individual signing this form on behalf of the company.

Owner or Operator

Prefix

Mr.

First Name	Middle Name	Last Name
Jeffrey	NONE PROVIDED	Flanagan

Title

Owner/Operator

Phone Type	Number	Extension
Business	919-757-1202	

Email

Jeffrey.Flanagan@duke-energy.com

Mailing Address

8320 NC Highway 150 E

Terrell, NC 28682-8708

PE Requirements

Construction permit applications shall be reviewed, signed, and sealed by a professional engineer registered to practice in the State of South Carolina (except professional engineers employed by the federal government preparing applications for the federal government or other professional engineers exempted from the state registration requirements).

Professional Engineer License/Registration No.

22147

SC Certificate of Authority License No.

6409

Professional Engineer

Prefix

Ms.

First Name	Middle Name	Last Name
Amy	Maria	Marshall

Title

Air Quality Practice Director

Organization Name

ALL4

Phone Type	Number	Extension
Business	984-777-3073	

Email

amarshall@all4inc.com

PE Seal

PE seal and COA.pdf - 04/01/2026 03:20 PM

Comment

NONE PROVIDED

CORRECTION REQUEST (APPROVED)

Add Certificate of Authorization

A South Carolina Certificate of Authorization will need to be added as an attachment here.

Created on 3/19/2026 10:24 AM by **David D. Nasol**

2 COMMENTS

David D. Nasol (David.Nasol@des.sc.gov) (4/8/2026 8:48 AM)

Per SC Reg 49, the COA seal should be stamped along with the PE stamp.

Lindsay Salvador (lsalvador@all4inc.com) (3/31/2026 2:42 PM)

Hi David,

Is this the correct form that needs completed and attached?

[https://lir.sc.gov/eng/Applications/COA_Application_ENG_\(package\).pdf](https://lir.sc.gov/eng/Applications/COA_Application_ENG_(package).pdf)

Revisions

Revision	Revision Date	Revision By
Revision 1	11/20/2025 3:12 PM	Lindsay Salvador
Revision 2	3/25/2026 3:54 PM	Amy Marshall
Revision 3	5/4/2026 8:20 AM	Lindsay Salvador
Revision 4	5/14/2026 1:34 PM	Lindsay Salvador
Revision 5	6/1/2026 11:23 AM	Lindsay Salvador
Revision 6	8/25/2026 10:50 AM	Amy Marshall

Agreements and Signature(s)

Submission Agreements

- ☒ I am the owner of the account used to perform the electronic submission and signature.
- ☒ I have the authority to submit the data on behalf of the facility I am representing.
- ☒ I agree that providing the account credentials to sign the submission document constitutes an electronic signature equivalent to my written signature.
- ☒ I have reviewed the electronic form being submitted in its entirety, and agree to the validity and accuracy of the information contained within it to the best of my knowledge.

Owner/Operator

I certify, to the best of my knowledge and belief, that no applicable standards and/or regulations will be contravened or violated. I certify that any application form, supporting documentation, report, or compliance certification submitted in this permit application is true, accurate, and complete based on information and belief formed after reasonable inquiry. I understand that any false information or misrepresentation may result in the immediate revocation of any permit issued for this application.

Signed By Jeffrey Flanagan on 08/28/2026 at 1:12 PM
+N5FcBCv1QNyjATVwv7W1ju5CcgjrRvcUioY+PYVEHcm2vry4kndfpX0pGinWp5D34kazg2vzEO+SQD10ZQlEg==

Professional Engineer

I have placed my signature and seal on the engineering documents submitted, signifying that I have reviewed this construction permit application as it pertains to the requirements of South Carolina Regulation 61-62, Air Pollution Control Regulations and Standards.

Signed By Amy Marshall on 08/27/2026 at 9:25 AM
qLNOXbLRCjzJNeL33qSzlD/RZv3+sJ76r0uNEGVL0qZ8E5a8occMI08QKhzo1sOUiTcMxoSpBjjocAQ8dFlrBw==