Dear Mr. English:

In accordance with your completed Air Quality Permit Application for the second step of a 2-step significant modification of your Title V permit, we are forwarding herewith Air Quality Permit No. 08758T27 authorizing the construction and operation of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 02Q .0503(8) have been identified as such in the permit. Please note the requirements for the annual compliance certification are contained in General Condition P in Section 4. The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.

As the designated responsible official it is your responsibility to review, understand, and abide by all of the terms and conditions of the attached permit. It is also your responsibility to ensure that any person who operates any emission source and associated air pollution control device subject to any term or condition of the attached permit reviews, understands, and abides by the condition(s) of the attached permit that are applicable to that particular emission source.

If any parts, requirements, or limitations contained in this Air Quality Permit are unacceptable to you, you have the right to file a petition for contested case hearing in the North Carolina Office of Administrative Hearings. Information regarding the right, procedure, and time limit for permittees and other persons aggrieved to file such a petition is contained in the attached “Notice Regarding the Right to Contest A Division of Air Quality Permit Decision.”

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to existing emission source(s) and air pollution control device(s) described in this permit must be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction unless the Permittee has fulfilled the requirements of NCGS 143-215.108A(b) and received written approval from the Director of the Division of Air Quality to commence construction. Failure to receive an Air Quality Permit or written approval prior to commencing construction is a violation of NCGS
Mr. Jesse English
TBD
Page 2

143-215.108A and may subject the Permittee to civil or criminal penalties as described in NCGS 143-215.114A and 143-215.114B.

Rowan County has triggered PSD Increment Tracking for PM10, SO₂, and NOₓ. Any increment changes associated with this modification were addressed in the Part 1 permit applications (Nos. 8000163.20A and 8000163.20B).

This Air Quality Permit shall be effective from TBD until September 30, 2023, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

Should you have any questions concerning this matter, please contact Russell Braswell at 919-707-8731 or russell.braswell@ncdenr.gov.

Sincerely yours,

Mark J. Cuilla, EIT, CPM, Chief, Permitting Section Division of Air Quality, NCDEQ

Enclosure

c: Mooresville Regional Office
   Central Files
   Connie Horne (cover letter only)
   Michael Sparks, EPA Region 4 (Permit and Review)
NOTICE REGARDING THE RIGHT TO CONTEST A DIVISION OF AIR QUALITY PERMIT DECISION

Right of the Permit Applicant or Permittee to File a Contested Case: Pursuant to NCGS 143-215.108(e), a permit applicant or permittee who is dissatisfied with the Division of Air Quality’s decision on a permit application may commence a contested case by filing a petition under NCGS 150B-23 in the Office of Administrative Hearings within 30 days after the Division notifies the applicant or permittee of its decision. If the applicant or permittee does not file a petition within the required time, the Division’s decision on the application is final and is not subject to review. The filing of a petition will stay the Division’s decision until resolution of the contested case.

Right of Other Persons Aggrieved to File a Contested Case: Pursuant to NCGS 143-215.108(e1), a person other than an applicant or permittee who is a person aggrieved by the Division’s decision on a permit application may commence a contested case by filing a petition under NCGS 150B-23 within 30 days after the Division provides notice of its decision on a permit application, as provided in NCGS 150B-23(f), or by posting the decision on a publicly available Web site. The filing of a petition under this subsection does not stay the Division’s decision except as ordered by the administrative law judge under NCGS 150B-33(b).

General Filing Instructions: A petition for contested case hearing must be in the form of a written petition, conforming to NCGS 150B-23, and filed with the Office of Administrative Hearings, 1711 New Hope Church Road, Raleigh NC, 27609, along with a fee in an amount provided in NCGS 150B-23.2. A petition for contested case hearing form may be obtained upon request from the Office of Administrative Hearings or on its website at https://www.oah.nc.gov/hearings-division/filing/hearing-forms. Additional specific instructions for filing a petition are set forth at 26 NCAC Chapter 03.

Service Instructions: A party filing a contested case is required to serve a copy of the petition, by any means authorized under 26 NCAC 03 .0102, on the process agent for the Department of Environmental Quality:

William F. Lane, General Counsel
North Carolina Department of Environmental Quality
1601 Mail Service Center
Raleigh, North Carolina 27699-1601

If the party filing the petition is a person aggrieved other than the permittee or permit applicant, the party must also serve the permittee in accordance with NCGS 150B-23(a).

* * *

Additional information is available at https://www.oah.nc.gov/hearings-division/hearing-process/filing-contested-case. Please contact the OAH at 984-236-1850 or oah.postmaster@oah.nc.gov with all questions regarding the filing fee and/or the details of the filing process.
Summary of Changes to Permit

The following table lists the changes to Plant Rowan County, Air Permit No. 08758T26:* 

<table>
<thead>
<tr>
<th>Page No.</th>
<th>Section</th>
<th>Description of Changes</th>
</tr>
</thead>
</table>
| Throughout | Throughout    | • Updated permit formatting to match current DAQ standard. There should be no changes in compliance requirements as a result of formatting changes.  
• Removed references to 02Q .0504 with regards to Unit 1 and Unit 3 because the Permittee has completed the requirements for this rule and these emission sources. |
| 10       | 2.1 A.3.a.ii  | • Noted that startup is limited to 120 total minutes during a block 24-hour period. This change is only for clarity, and does not affect the Permittee’s compliance requirements. |
| 12       | 2.1 A.5       | • Noted that Unit 1 resumed operation in March 2021. Therefore, the recordkeeping years will be CY2022 through CY2026. |
| 13       | 2.1 A.6       | • Noted that Unit 3 resumed operation in April 2021. Therefore, the recordkeeping years will be CY2022 through CY2026. |
| 19       | 2.1 B.3.a.ii  | • Noted that startup is limited to 360 total minutes during a block 24-hour period. This change is only for clarity, and does not affect the Permittee’s compliance requirements. |
| 33       | 3. (new)      | • Created Section 3 for list of insignificant activities.                               |
| 34       | 4. (new)      | • Created Section 4 for General Conditions.                                            |

* This list is not intended to be a detailed record of every change made to the permit but a summary of those changes.
State of North Carolina  
Department of Environmental Quality  
Division of Air Quality

AIR QUALITY PERMIT

<table>
<thead>
<tr>
<th>Permit No.</th>
<th>Replaces Permit No.</th>
<th>Effective Date</th>
<th>Expiration Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>08758T27</td>
<td>08758T26</td>
<td>TBD</td>
<td>September 30, 2023</td>
</tr>
</tbody>
</table>

NOTE: Per General Condition K, a permit application for the renewal of this Title V permit shall be submitted no later than March 31, 2023.

Until such time as this permit expires or is modified or revoked, the below named Permittee is permitted to operate the emission source(s) and associated air pollution control device(s) specified herein, in accordance with the terms, conditions, and limitations within this permit. This permit is issued under the provisions of Article 21B of Chapter 143, General Statutes of North Carolina as amended, and Title 15A North Carolina Administrative Codes (15A NCAC), Subchapters 02D and 02Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 02Q, the Permittee shall not construct, operate, or modify any emission source(s) or air pollution control device(s) without having first submitted a complete Air Quality Permit Application to the permitting authority and received an Air Quality Permit, except as provided in this permit.

Permittee: Plant Rowan County
Facility ID: 8000163
Primary SIC Code: 4911
NAICS Code: 221112

Facility Site Location: 5755 NC 801 Highway
City, County, State, Zip: Salisbury, Rowan County, North Carolina 28147
Mailing Address: 5755 NC 801 Highway
City, State, Zip: Salisbury, North Carolina 28147

Application Numbers: 8000163.22A
Complete Application Date: January 13, 2022

Division of Air Quality: Mooresville Regional Office
Regional Office Address: 610 East Center Avenue, Suite 301
Mooresville, NC 28115

Permit issued this the TBD.

Mark J. Cuilla, EIT, CPM, Chief, Air Permitting Section
By Authority of the Environmental Management Commission
List of Acronyms

SECTION 1: PERMITTED EMISSION SOURCE(S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE(S) AND APPURtenances

SECTION 2: SPECIFIC LIMITATIONS AND CONDITIONS

2.1- Emission Source(s) Specific Limitations and Conditions (Including specific requirements, monitoring/testing, recordkeeping, and reporting requirements)
2.2- Phase II Acid Rain Permit Requirements
2.3- Cross State Air Pollution Rule [CSAPR] Requirements

SECTION 3: INSIGNIFICANT ACTIVITIES PER 15A NCAC 02Q .0503(8)

SECTION 4: GENERAL PERMIT CONDITIONS

ATTACHMENTS:
Acid Rain Permit Application
List of Acronyms

AOS  Alternative Operating Scenario
BACT  Best Available Control Technology
BAE  Baseline Actual Emissions
Btu  British thermal unit
CAA  Clean Air Act
CAM  Compliance Assurance Monitoring
CEMS  Continuous Emission Monitoring System
CEDRI  Compliance and Emissions Data Reporting Interface
CFR  Code of Federal Regulations
CO  Carbon Monoxide
COMS  Continuous Opacity Monitoring System
CSAPR  Cross-State Air Pollution Rule
DAQ  Division of Air Quality
DEQ  Department of Environmental Quality
EMC  Environmental Management Commission
EPA  Environmental Protection Agency
FR  Federal Register
GACT  Generally Available Control Technology
GHGs  Greenhouse Gases
HAP  Hazardous Air Pollutant
LAER  Lowest Achievable Emission Rate
MACT  Maximum Achievable Control Technology
NAA  Non-Attainment Area
NAAQS  National Ambient Air Quality Standards
NAICS  North American Industry Classification System
NCAC  North Carolina Administrative Code
NCGS  North Carolina General Statutes
NESHAP  National Emission Standards for Hazardous Air Pollutants
NO\textsubscript{X}  Nitrogen Oxides
NSPS  New Source Performance Standard
NSR  New Source Review
OAH  Office of Administrative Hearings
PAE  Projected Actual Emissions
PAL  Plantwide Applicability Limitation
PM  Particulate Matter
PM\textsubscript{2.5}  Particulate Matter with Nominal Aerodynamic Diameter of 2.5 Micrometers or Less
PM\textsubscript{10}  Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
POS  Primary Operating Scenario
PSD  Prevention of Significant Deterioration
PTE  Potential to Emit
RACT  Reasonably Available Control Technology
SIC  Standard Industrial Classification
SIP  State Implementation Plan
SO\textsubscript{2}  Sulfur Dioxide
TAP  Toxic Air Pollutant
tpy  Tons Per Year
VOC  Volatile Organic Compound
### SECTION 1- PERMITTED EMISSION SOURCE(S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE(S)

The following table contains a summary of all permitted emission sources and associated air pollution control devices:

<table>
<thead>
<tr>
<th>Emission Source ID No.</th>
<th>Emission Source Description</th>
<th>Control Device ID No.</th>
<th>Control Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 1, Unit 2, and Unit 3</td>
<td>Three natural gas/No. 2 fuel oil-fired simple-cycle internal combustion turbines (1,628 million Btu per hour heat input rate each, when firing natural gas, 1,875 million Btu per hour heat input rate each, when firing No. 2 fuel oil), each equipped with dual fuel dry Low-NOx combustors and having water injection capability for NOx control</td>
<td>CD-U1, CD-U2, and CD-U3</td>
<td>Water injection for NOx control when firing fuel oil (one per turbine)</td>
</tr>
<tr>
<td><strong>PSD BACT, NSPS GG, MACT YYYY</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unit 4</td>
<td>One natural gas/No. 2 fuel oil-fired combined-cycle internal combustion turbine (1,628 million Btu per hour heat input rate, when firing natural gas, 1,875 million Btu per hour heat input rate, when firing No. 2 fuel oil), equipped with a heat recovery steam generator and a steam turbine, dual fuel dry Low-NOx combustors and having water injection capability for NOx control, and inlet air evaporative coolers</td>
<td>CD-U4</td>
<td>Unit 4 SCR Water injection for NOx control when firing fuel oil Selective catalytic reduction</td>
</tr>
<tr>
<td><strong>PSD BACT, NSPS GG, MACT YYYY</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unit 5*</td>
<td>One natural gas-fired combined-cycle internal combustion turbine (1,628 million Btu per hour heat input), equipped with a heat recovery steam generator and a steam turbine, dual fuel dry Low-NOx combustors, and inlet air evaporative coolers</td>
<td>Unit 5 SCR</td>
<td>Selective catalytic reduction</td>
</tr>
<tr>
<td><strong>TK-1</strong> and <strong>TK-2</strong></td>
<td>Two No. 2 fuel oil, fixed-roof storage tanks (not to exceed 3.6 million gallons capacity each, actual capacity 3.1 million gallons each) with atmospheric vents</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Tower 1</td>
<td>One cooling tower with drift eliminators (123,220 gallons per minute recirculating water flow rate)</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td><strong>PSD</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ES-6</td>
<td>One firetube design natural gas-fired auxiliary boiler (16.74 million Btu per hour maximum heat input rate)</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td><strong>NSPS Dc, MACT DDDDD, RACT</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ES-8</td>
<td>One natural gas-fired process heater (4.0 million Btu per hour maximum heat input rate)</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td><strong>MACT DDDDD</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* These emission sources (ID No. **Unit 4** and **Unit 5**) are listed as a 15A NCAC 02Q.0501(b)(2) modification (initial application 8000163.21A). The Permittee shall file a Title V Air Quality Permit Application on or before 12 months after commencing operation in accordance with General Condition NN.1. The permit shield described in General Condition R does not apply and compliance certification as described in General Condition P is not required.

** These sources (ID Nos. **TK-1** and **TK-2**) are listed for information purposes only. They have no applicable requirements.
SECTION 2- SPECIFIC LIMITATIONS AND CONDITIONS

2.1- Emission Source(s) Specific Limitations and Conditions

The emission source(s) and associated air pollution control device(s) listed below are subject to the following specific terms, conditions, and limitations, including the monitoring, recordkeeping, and reporting requirements specifically identified herein as applicable requirements:

A. Three natural gas/No. 2 fuel oil-fired simple-cycle internal combustion turbines (ID Nos. Unit 1, Unit 2, and Unit 3) with water injection capability for NOx control when firing fuel oil (ID Nos. CD-U1, CD-U2, and CD-U3) respectively

The following table provides a summary of limits and standards for the emission source(s) described above:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Limits/Standards</th>
<th>Applicable Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visible emissions</td>
<td>20 percent opacity</td>
<td>15A NCAC 02D .0521</td>
</tr>
<tr>
<td>Sulfur dioxide, Nitrogen oxides</td>
<td>As defined in specific condition</td>
<td>15A NCAC 02D .0524</td>
</tr>
<tr>
<td>Opacity, Nitrogen oxides, Sulfur dioxide, Carbon monoxide, Volatile organic compounds, Particulates/PM10, Sulfuric acid</td>
<td>BACT limits</td>
<td>15A NCAC 02D .0530</td>
</tr>
<tr>
<td>Hazardous air pollutants</td>
<td>40 CFR Part 63 Subpart YYYYY National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines -No requirements per 40 CFR 63.6090(b)(4)</td>
<td>15A NCAC 02D .1111</td>
</tr>
<tr>
<td>Criteria pollutants</td>
<td>Annual tracking report</td>
<td>15A NCAC 02D .0530(u)</td>
</tr>
<tr>
<td>Nitrogen oxides</td>
<td>See Section 2.2 Phase II Acid Rain permit requirements</td>
<td>15A NCAC 02Q .0402</td>
</tr>
<tr>
<td>Sulfur dioxide</td>
<td>See Section 2.2 Phase II Acid Rain permit requirements</td>
<td>15A NCAC 02Q .0402</td>
</tr>
<tr>
<td></td>
<td>See Section 2.3 Cross State Air Pollution Rule Requirements</td>
<td>40 CFR Part 97 SubpartAAAAA</td>
</tr>
<tr>
<td></td>
<td>See Section 2.3 Cross State Air Pollution Rule Requirements</td>
<td>40 CFR Part 97 Subpart CCCCC</td>
</tr>
</tbody>
</table>

1. **15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS**
   a. Visible emissions from these sources (ID Nos. Unit 1 through Unit 3) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

   Testing [15A NCAC 02Q .0508(f)]

   b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

   Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

   c. No monitoring/recordkeeping is required for visible emissions from the firing of natural gas in these sources (ID Nos. Unit 1 through Unit 3).

   d. i. To ensure compliance, prior to these sources (ID Nos. Unit 1 through Unit 3) operating more than 1,100 hours using No. 2 fuel oil and for each subsequent 1,100 hours of operation after the last test (excluding any hours while firing natural gas), the Permittee shall observe the emission points of these sources (ID Nos. Unit 1...
through Unit 3) for any visible emissions above normal. The observations must be made for each 1,100 operating hour period to ensure compliance with this requirement. If visible emissions are observed to be above normal, the Permittee shall either:

(A) take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or

(B) demonstrate that the percent opacity from the emissions points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.1.a above.

ii. The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if:

(A) the above-normal emissions are not corrected per Section 2.1 A.1.d.i.(A) above;

(B) the demonstration in Section 2.1 A.1.d.i.(B) above cannot be made, or

(C) the 1,100 hours while using No. 2 fuel oil observations are not conducted per Section 2.1 A.1.d.i above.

e. The results of the monitoring activities given in Section 2.1 A.1.d above shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:

i. the date and time of each recorded action;

ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and

iii. the results of any corrective actions performed.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

f. No reporting is required for visible emissions from the firing of natural gas in these sources (ID Nos. Unit 1 through Unit 3).

g. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Section 2.1 A.1.d and e above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 02D .0524: NEW SOURCE PERFORMANCE STANDARDS

a. For these sources (ID Nos. Unit 1 through Unit 3), the Permittee shall comply with all applicable provisions, including the requirements for emission standards, notification, testing, reporting, recordkeeping, and monitoring in accordance with 15A NCAC 02D .0524, “New Source Performance Standards” (NSPS) as promulgated in 40 CFR Part 60, Subpart GG, including Subpart A “General Provisions.”

b. As required by 15A NCAC 02D .0524, for these sources (ID Nos. Unit 1 through Unit 3), the Permittee shall comply with the following emission standards at all times, except during start-up, shutdown, and malfunction:

<table>
<thead>
<tr>
<th>Affected Facility</th>
<th>Pollutant</th>
<th>Emission Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 1 through Unit 3</td>
<td>Nitrogen oxides</td>
<td>0.011% by volume at 15% O₂ and on a dry basis (110 ppmvd at 15% O₂), while firing natural gas or No. 2 fuel oil¹</td>
</tr>
<tr>
<td>Unit 1 through Unit 3</td>
<td>Sulfur dioxide</td>
<td>0.015% by volume at 15% O₂ and on a dry basis (150 ppmvd at 15% O₂), while firing natural gas or No. 2 fuel oil or 0.8% by weight sulfur (8,000 ppmw) in natural gas or No. 2 fuel oil</td>
</tr>
</tbody>
</table>

c. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.2.b above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524.

¹ Emission limit of nitrogen oxides for these sources (ID Nos. Unit 1 through Unit 3) is based upon manufacturer's rated heat rates of 9,330 Btu/kW-hr for No. 2 fuel oil and 9,290 Btu/kW-hr for natural gas, at a peak load of 100%. The emission limit accounts for no credit for fuel-bound nitrogen in either natural gas or No. 2 fuel oil (i.e., F = 0% by volume).
Monitoring/Recordkeeping [15A NCAC 02Q.0508(f)]

d. The Permittee is subject to the following monitoring and recordkeeping requirements:

i. As per §60.334(a), for these sources (ID Nos. Unit 1 through Unit 3) which are using water injection to control NOx emissions, the Permittee shall install, calibrate, maintain and operate a continuous monitoring system to monitor and record fuel consumption and the ratio of water to fuel being fired. If the fuel consumption or the ratio of water to fuel being fired is not monitored and recorded continuously for each source (ID Nos. Unit 1 through Unit 3), the Permittee shall be deemed in noncompliance with 15A NCAC 02D.0524. If any unit operating hour, excluding the unit operating hour during start-up, shut-down or malfunction, for which the average water to fuel ratio, as measured by the continuous monitoring system, falls below the acceptable water to fuel ratio needed to demonstrate compliance with the limit given in Section 2.1 A.2.b above, as established during the performance test required in §60.8 or any performance test required in Appendix E to Part 75, the Permittee shall be deemed in noncompliance with 15A NCAC 02D.0524. If any unit operating hour, including the unit operating hour during start-up, shut-down or malfunction, for which the average water to fuel ratio, as measured by the continuous monitoring system, falls below the acceptable water to fuel ratio needed to demonstrate compliance with the limit given in Section 2.1 A.2.b above, as established during the performance test required in §60.8 or any performance test required in Appendix E to Part 75, the Permittee may be deemed in noncompliance with 15A NCAC 02D.0524, specifically, with the requirements of 40 CFR §60.11(d).

ii. As per §60.334(b), for these sources (ID Nos. Unit 1 through Unit 3) which have commenced construction, reconstruction or modification after October 3, 1977 but before July 8, 2004, and which use water injection to control NOx emissions, as an alternative to operating the continuous monitoring system described in Section 2.1 A.2.d.i above, the Permittee may install, certify, maintain, operate, and quality assure a continuous emission monitoring system (CEMS) consisting of NOx and O2 monitors, according to the requirements of 40 CFR 60 Appendix B or 40 CFR 75. The CEMS shall comply with all applicable requirements of §60.334(b). If the CEMS does not comply with the requirements of §60.334(b) or the NOx emissions from these turbines exceed the emission limit in Section 2.1 A.2.b above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D.0524.

iii. As per §60.334(c), for these sources (ID Nos. Unit 1 through Unit 3) which have commenced construction, reconstruction or modification after October 3, 1977, but before July 8, 2004, and which do not use water injection to control NOx emissions, the Permittee may, for purposes of determining excess emissions, use a CEMS that meets the requirements of §60.334(b). The Permittee has previously submitted and received DAQ approval of a petition for an alternative procedure in 40 CFR 75 Appendix E, for continuously monitoring compliance with the applicable NOx emission limit in Section 2.1 A.2.b above. Hence, as an alternate to the requirement to use CEMS to monitor NOx emissions, the Permittee may use the approved procedure in 40 CFR 75 Appendix E. When using this approved procedure, if the Permittee does not comply with the requirements of 40 CFR 75 Appendix E or the monitoring under 40 CFR 75 Appendix E indicates NOx emissions except during start-up, shutdown, and malfunction from the turbines exceed the emission limit in Section 2.1 A.2.b above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D.0524.

iv. As per §60.334(g), the water to fuel ratio that is required to be continuously monitored for these sources (ID Nos. Unit 1 through Unit 3) in Section 2.1 A.2.d.i above, shall be monitored during the performance test required under §60.8, to establish acceptable values and ranges. The Permittee may supplement the performance test data with engineering analyses, design specifications, manufacturer’s recommendations and other relevant information to define the acceptable parametric ranges more precisely. The Permittee shall develop and keep on-site a parameter monitoring plan, which explains the procedures used to document proper operation of the NOx emission controls. The plan shall include the parameter(s) monitored and the acceptable range(s) of the parameter(s) as well as the basis for designating the parameter(s) and acceptable range(s). Any supplemental data such as engineering analyses, design specifications, manufacturer’s recommendations and other relevant information shall be included in the monitoring plan. The Permittee shall be deemed in noncompliance with 15A NCAC 02D.0524 if the parameter monitoring plan is not developed or kept on-site. If these sources (ID Nos. Unit 1 through Unit 3) are also subject to 40 CFR 75 and that use the low mass emissions methodology in 75.19 or the NOx emission measurement methodology in Appendix E to 40 CFR 75, the Permittee may meet the requirements of this Section by developing and keeping on-site (or at a central location for unmanned facilities) a quality-assurance plan, as described in 75.19(e)(5) or in Section 2.3 of Appendix E and Section 1.3.6 of Appendix B to 40 CFR 75. If the Permittee does not comply with the requirements of 75.19 or Appendix E to 40 CFR 75, as applicable, the Permittee shall be deemed in noncompliance with 15A NCAC 02D.0524.
v. As per §60.334(h)(2), monitoring for nitrogen content of the natural gas and fuel oil, combusted in these sources (ID Nos. Unit 1 through Unit 3) is not required.3

vi. As per §60.334(h)(3), the Permittee may elect not to monitor the total sulfur content of the natural gas combusted in these sources (ID Nos. Unit 1 through Unit 3), even though a DAQ approved existing custom fuel monitoring schedule requires the Permittee to monitor natural gas combusted in these sources (ID Nos. Unit 1 through Unit 3) using the procedures of 40 CFR 75 Appendix D. If the provision of this Section is elected, the Permittee shall use one of the following sections of information to make the required demonstration that the gaseous fuel combusted in these sources (ID Nos. Unit 1 through Unit 3) does qualify as a natural gas in §60.331(u):

A. The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20 grains/100 scf or less; or

B. Representative fuel sampling data, which show that the sulfur content of the gaseous fuel does not exceed 20 grains/100 scf. At a minimum, the amount of fuel sampling data specified in Section 2.3.1.4 or 2.3.2.4 of Appendix D to 40 CFR 75 is required.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524, if the gaseous fuel fired in the combustion turbines does not qualify as a natural gas in §60.331(u) or the Permittee does not make the above demonstration, or the SO₂ emissions, excluding the emissions during start-up, shutdown, and malfunction from the turbines exceed the emission limit in Section 2.1 A.2.b above.

vii. As per §60.334(h)(4) and the DAQ approved custom fuel monitoring schedule, for these sources (ID Nos. Unit 1 through Unit 3), the Permittee shall sample each tank of fuel oil to determine sulfur content after all shipments have been transferred into the tank and prior to placing the tank in service for supply to the turbines. Samples for fuel oil shall be analyzed for sulfur content in accordance with 40 CFR Part 75, Appendix D.

A. After each tank of fuel oil demonstrates initial compliance with the sulfur content limit and has been placed into service, the Permittee shall monitor the sulfur content of future fuel oil shipments by obtaining vendor certification that the sulfur content of the delivered fuel oil is lower than 8,000 ppmw.

B. If the Permittee accepts a delivery of fuel oil with a sulfur content of greater than 8,000 ppmw, the Permittee shall sample each fuel tank as required by Paragraph 2.1.A.2.d.vii. above.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524, if the fuel oil or natural gas fired in the combustion turbines does not comply with the sulfur content limit in Section 2.1 A.2.b above or the SO₂ emissions excluding the emissions during start-up, shutdown, and malfunction from these turbines exceed the emission limit in Section 2.1 A.2.b above, or the Permittee does not comply with the requirements of DAQ approved custom fuel monitoring schedule.

Reporting [15A NCAC 02Q .0508(f)]

e. The Permittee is required to report to the Regional Supervisor, DAQ, in writing, of the following:

i. For each source (ID Nos. Unit 1 through Unit 3), required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content or fuel nitrogen content under 40 CFR 60 Subpart GG, the Permittee shall submit reports of excess emissions and monitor downtime, in accordance with §60.7(c). Excess emissions shall be reported for all periods of unit operation, including startup, shutdown and malfunction. For the purpose of reports required under §60.7(c), periods of excess emissions and monitor downtime that shall be reported are defined below [§60.334(j)].

A. When using water to fuel ratio monitoring, excess emissions for NOₓ shall be defined as any unit operating hour for which the average water to fuel ratio, as measured by the continuous monitoring system, falls below the acceptable water to fuel ratio needed to demonstrate compliance with Section 2.1 A.2.b above, as established during the performance test required in §60.8 or any performance test required in Appendix E to Part 75. Any unit operating hour in which no water is injected into the turbine shall also be considered an excess emission [§60.334(j)(1)(i)(A)].

B. When using water to fuel ratio monitoring, a period of monitor downtime for NOₓ shall be defined as any unit operating hour in which water is injected into the turbine, but the essential parametric data needed to determine water to fuel ratio are unavailable or invalid [§60.334(j)(1)(i)(B)].

C. When using water to fuel ratio monitoring, each excess emission report for NOₓ shall include the average water to fuel ratio, average fuel consumption, ambient conditions (temperature, pressure, and humidity), gas turbine load, and (if applicable) the nitrogen content of the fuel during each excess emission. The Permittee does not have to report ambient conditions, if Permittee opts to use the worst case ISO correction factor as

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3 The Permittee has not claimed any credit for fuel bound nitrogen in either natural gas or fuel oil for establishing the emission limit for NOₓ.
specified in §60.334(b)(3)(ii), or if Permittee is not using the ISO correction equation under the provisions of §60.335(b)(1) [60.334(j)(i)(C)].

D. When using NOx and diluent CEMS, excess emissions for NOx shall be defined as any unit operating hour in which the 4-hour rolling average NOx concentration exceeds the emission limit in Section 2.1 A.2.b above. For the purposes of this Subpart, a “4-hour rolling average NOx concentration” is the arithmetic average of the average NOx concentration measured by the CEMS for a given hour (corrected to 15 percent O₂) and the three unit operating hour average NOx concentrations immediately preceding that unit operating hour [60.334(j)(1)(i)(A)].

E. When using NOx and diluent CEMS, a period of monitor downtime for NOx shall be defined as any unit operating hour in which sufficient data are not obtained to validate the hour, for either NOx concentration or diluent (or both) [60.334(j)(1)(ii)(B)].

F. When using NOx and diluent CEMS, each excess emission report for NOx shall include the ambient conditions (temperature, pressure, and humidity) at the time of the excess emission period and (if the owner or operator has claimed an emission allowance for fuel bound nitrogen) the nitrogen content of the fuel during the period of excess emissions. The Permittee does not have to report ambient conditions, because the Permittee has elected not to use the optional ISO correction equation [60.334(j)(1)(ii)(C)].

G. When not using water to fuel ratio monitoring and not using NOx and diluent CEMS, excess emissions for NOx shall be defined as 4-hour rolling unit operating hour average in which any monitored parameter does not achieve the target value or is outside the acceptable range in the quality assurance plan in Section 2.3 of Appendix E to 40 CFR 75.

H. When not using water to fuel ratio monitoring and not using NOx and diluent CEMS, a period of monitor downtime shall be a unit operating hour in which any of the required parametric data are either not recorded or are invalid.

I. When the Permittee is required to monitor the sulfur content of the fuel in Section 2.1 A.2.d.vii above, excess emissions for SO₂, while sampling of gaseous fuel and fuel oil samples obtained using daily sampling, flow proportional sampling, or sampling from the unit's storage tank, shall be defined as each unit operating hour included in the period beginning on the date and hour of any sample for which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 weight percent and ending on the date and hour that a subsequent sample is taken that demonstrates compliance with the sulfur limit. The requirement of this Section does not apply to natural gas, if the Permittee elects not to monitor the total sulfur content of the natural gas as per Section 2.1 A.2.d.vi above [60.334(j)(2)(i)].

J. When the Permittee is required to monitor the sulfur content of the fuel in Section 2.1 A.2.d.vi above, a period of monitor downtime for SO₂ shall begin when a required sample is not taken by its due date. A period of monitor downtime shall also begin on the date and hour of a required sample, if invalid results are obtained. The period of monitor downtime shall include only unit operating hours, and ends on the date and hour of the next valid sample. The requirement of this Section does not apply to natural gas, if the Permittee elects not to monitor the total sulfur content of the natural gas as per Section 2.1 A.2.d.vi above [60.334(j)(2)(ii)].

ii. The Permittee shall submit all reports required under §60.7(c) for these sources (ID Nos. Unit 1 through Unit 3), postmarked by the 30th day following the end of each calendar quarter [60.334(j)(5)].

iii. For these sources (ID Nos. Unit 1 through Unit 3), the Permittee shall submit the results of sampling for sulfur content of No. 2 fuel oil fired, and the natural gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract or the results of sampling of natural gas, as appropriate, postmarked by the 30th day following the end of each calendar quarter. The quarterly reports, acceptable to the Regional Air Quality Supervisor, shall be postmarked on or before January 30 of each calendar year for the preceding three-month period between October and December, April 30 of each calendar year for the preceding three-month period between January and March, July 30 of each calendar year for the preceding three-month period between April and October 30 for the calendar year for the preceding three-month period between July and September.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if the reporting requirements in Sections 2.1 A.2.e.ii and iii are not met.

3. 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

a. The following Best Available Control Technology (BACT) limits shall not be exceeded:

i. Short term maximum emission rates for each source (ID No. Unit 1 through Unit 3) shall not exceed:
<table>
<thead>
<tr>
<th>AFFECTED SOURCE</th>
<th>POLLUTANT</th>
<th>Natural Gas</th>
<th>No. 2 Fuel Oil</th>
<th>BACT CONTROLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 1 through Unit 3</td>
<td>Opacity</td>
<td>20%</td>
<td>20%</td>
<td>combustion control</td>
</tr>
<tr>
<td></td>
<td>Nitrogen oxides</td>
<td>0.045 lb/MMBtu (24-hour rolling average)</td>
<td>0.176 lb/MMBtu (24-hour rolling average)</td>
<td>natural gas: dry-low NOx fuel oil: water injection</td>
</tr>
<tr>
<td></td>
<td>Sulfur dioxide</td>
<td>0.0006 lb/MMBtu</td>
<td>0.0515 lb/MMBtu</td>
<td>0.05% sulfur fuel oil</td>
</tr>
<tr>
<td></td>
<td>Carbon monoxide</td>
<td>0.018 lb/MMBtu</td>
<td>0.037 lb/MMBtu</td>
<td>combustion control</td>
</tr>
<tr>
<td></td>
<td>VOCs</td>
<td>0.0015 lb/MMBtu</td>
<td>0.004 lb/MMBtu</td>
<td>combustion control</td>
</tr>
<tr>
<td></td>
<td>particulates/PM₁₀ (front half)</td>
<td>0.0055 lb/MMBtu</td>
<td>0.009 lb/MMBtu</td>
<td>combustion control</td>
</tr>
<tr>
<td></td>
<td>sulfuric acid</td>
<td>fuel oil sulfur content</td>
<td>0.05% sulfur fuel oil</td>
<td></td>
</tr>
</tbody>
</table>

a BACT limits shall apply at all times except as provided under Section 2.1.A.3.a.ii.

b ppmvd = parts per million by volume on a dry basis at 15% O₂.

c 24-hour rolling average is calculated using only actual operating hours (periods of zero emissions when not operating are not included).

ii. Emissions resulting from start-up, shutdown or malfunction above those given in Section 2.1 A.3.a.i are permitted provided that optimal operational practices are adhered to and periods of excess emissions are minimized. For these sources (ID Nos. Unit 1 through Unit 3), periods of excess emissions due to start-up and/or shutdown shall not exceed two hours (120 total minutes) in any 24-hour block period beginning at midnight.

(A) When firing fuel oil, "start-up" is defined as the period from initial firing to 50% load, and "shutdown" is defined as the period from 50% load to flame out.

(B) When firing natural gas, "start-up" is defined as the period from initial firing until the turbine reaches Mode 6 operation, and "shutdown" is defined as the period from when the turbine drops below Mode 6 operation to flame out.

(C) "Mode 6" is defined by the turbine manufacturer’s dry low NOx control system information.

b. The following emission limits apply in order to demonstrate compliance with the National Ambient Air Quality Standards as required by 15A NCAC 02D.0530; 40 CFR 51.166(k):

<table>
<thead>
<tr>
<th>AFFECTED SOURCE</th>
<th>POLLUTANT</th>
<th>EMISSION LIMIT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Annual (tons/yr)</td>
</tr>
<tr>
<td>Unit 1 through Unit 5, total</td>
<td>nitrogen dioxide</td>
<td>1,224.4</td>
</tr>
<tr>
<td></td>
<td>sulfur dioxide</td>
<td>257.3</td>
</tr>
<tr>
<td></td>
<td>carbon monoxide</td>
<td>2,680</td>
</tr>
<tr>
<td></td>
<td>particulates/PM₁₀ (front half)</td>
<td>1,25.8</td>
</tr>
</tbody>
</table>

a Tons per rolling consecutive 12-month period. Annual emissions for the combustion turbines are for all five turbines firing fuel oil for 1,000 hours per year, three simple-cycle turbines firing natural gas for 1,000 hours per year and two combined-cycle turbines firing natural gas for 7,760 hours per year, at 100% load.

Testing [15A NCAC 02Q .0508(f)]

c. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Sections 2.1 A.3.a and b, above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

d. The maximum annual hours of operation for each source (ID Nos. Unit 1 through Unit 3) shall not exceed 1,000 full load equivalent hours per rolling consecutive 12-month period when firing No. 2 fuel oil.
e. The maximum annual hours of operation for each source (ID Nos. Unit 1 through Unit 3) shall not exceed 2,000 full load equivalent hours per rolling consecutive 12-month period.

f. The Permittee shall record and maintain records of the actual number of hours of operation, and the amounts of each fuel burned during each day for each source (ID Nos. Unit 1 through Unit 3) in accordance with 40 CFR Part 75. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the above records are not maintained.

g. Only natural gas shall be burned during summer months (April through October) except during operational curtailment of interruptible transportation, Force Majeure events, malfunctions, functional equipment testing (periods not to exceed one hour per week), and during compliance testing.

h. No more than three sources (ID Nos. Unit 1 through Unit 4) shall burn No. 2 fuel oil simultaneously.

i. The sulfur content of the No. 2 fuel oil shall not exceed 0.05 percent sulfur by weight.

j. Water injection shall be used when the sources (ID Nos. Unit 1 through Unit 4) are firing No. 2 fuel oil only.

k. The Permittee shall monitor operations to demonstrate compliance with the BACT emission limits as follows:
   i. Determine the sulfur content of the fuel being fired in each source (ID No. Unit 1 through Unit 4) in accordance with Section 2.1 A.2.d.vii above.
   ii. Determine NOx emissions with one of the following methods:
       (A) Determine nitrogen oxide emissions as specified in 40 CFR Part 75 Appendix E. At least 45 days prior to performing any required initial performance testing required by the procedure in Appendix E, the Permittee must submit a testing protocol to the Regional Supervisor, Division of Air Quality for review and approval prior to performing such tests. Note: If Appendix E is being used in lieu of a NOx CEM under the Acid Rain Program, then certification to use Appendix E shall be completed no later than the applicable deadline specified in 40 CFR Part 75.4 pursuant to the requirements in 75.20.
       -OR-
       (B) Use a NOx CEMS in accordance with Section 2.1 A.2.d.ii above.
   iii. NOx CEMS data reported to demonstrate compliance with the BACT and annual emission limit in Section 2.1 A.3.a and b above shall include data substituted using the missing data procedures in Subpart D of 40 CFR Part 75 except that unbiased values may be used. The missing data procedure shall be used whenever the emission unit combusts any fuel.
   iv. When using a NOx CEMS to demonstrate compliance with the BACT and annual emission limits in Sections 2.1 A.3.a and b above, monitor downtime:
       (A) shall not exceed 5.0 percent of the operating time in a calendar quarter; and
       (B) shall be calculated using the following equation:

       \[
       \%MD = \left( \frac{\text{Total Monitor Downtime}}{\text{Total Source Operating Time}} \right) \times 100
       \]

       Where:

       "Total Monitor Downtime" is the number of hours in a calendar quarter where an emission source was operating but data from the associated CEMS are invalid, not available, and/or or filled with missing data procedure; and

       "Total Source Operating Time" is the number of hours in a calendar quarter where the emission source associated with the CEMS was operating.

       The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the sulfur content of the fuel is not monitored as required by Section 2.1 A.3.k.i or if the nitrogen oxide emissions are not monitored as required by Section 2.1 A.3.k.ii through iv.

Reporting [15A NCAC 02Q .0508(f)]

l. The Permittee shall submit in writing a report postmarked on or before January 30 of each calendar year for the preceding three-month period between October and December, April 30 of each calendar year for the preceding three-month period between January and March, July 30 of each calendar year for the preceding three-month period between April and June, and October 30 of each calendar year for the preceding three-month period between July and September. The quarterly report shall include the following:
   i. periods of excess emissions for sulfur dioxide for any daily period during which the sulfur content of the No. 2 fuel oil being fired exceeds 0.05 percent by weight; and
   ii. periods of excess emissions for nitrogen oxides, defined as:
       (A) for any 24-hour rolling averaging period during which the concentrations exceed 0.045 lb/million Btu (10.5 ppmvd) when firing natural gas and 0.176 lb/million Btu (42 ppmvd) when firing No. 2 fuel oil, as determined by Section 2.1 A.3.k.ii above. The 24-hour rolling average is calculated using only actual operating hours (periods of zero emissions when not operating are not included). A valid hourly emission
rate shall be calculated for each hour in which at least two NOx concentrations are obtained at loads above 50 percent at least 15 minutes apart.

(B) for any 24-hour rolling average period and/or consecutive 12-month period where NOx emissions exceed the emission limits in Sections 2.1 A.3.a and b above, including any substituted data required by Section 2.1 A.3.k.iii.

iii. Records of excess emissions and monitor downtime for the NOx CEMS in the format approved by DAQ Technical Services Section. The Permittee shall report excess emissions for all periods of operation, including start-up, shutdown, and malfunction excluding periods of excess emissions permitted by Section 2.1 A.3.a.ii above.

4. 15A NCAC 02D .0530(u): PREVENTION OF SIGNIFICANT DETERIORATION (USE OF PROJECTED ACTUAL EMISSIONS)

a. The Permittee has used projected actual emissions to avoid applicability of prevention of significant deterioration requirements for the project consisting of upgrading the hot gas path of the turbine (ID No. Unit 2) as fully described in Application No. 8000163.19B. In order to verify the assumptions used in the projected actual emissions calculations, the Permittee shall comply with the record keeping and reporting requirements in Sections 2.1 A.4.b and c below.

**Recordkeeping** [15A NCAC 02Q .0508(f)]

b. The Permittee shall maintain records of actual emissions for the pollutants in Table 2.1 A.4-1 in tons per year on a calendar year basis for five years following the resumption of regular operations of the turbine (ID No. Unit 2) as fully described in Application No. 8000163.19B. The Permittee shall make the information, documented and maintained in this condition available to the Director or the general public pursuant to the requirements in 40 CFR 70.4(b)(3)(viii).

i. The first recordkeeping year is CY2020.

ii. The last recordkeeping year is CY2024.

**Reporting** [15A NCAC 02Q .0508(f)]

c. The Permittee shall submit a report of the emissions of the pollutants in Table 2.1 A.4-1 to the Director within 60 days after the end of each calendar year during which the records in Section 2.1 A.4.b above must be generated. The report shall contain the items listed in 40 CFR 51.166(r)(6)(v)(a) through (c). The reported actual emissions for each of the five calendar years for the following pollutants will be compared to the respective projected actual emissions as included below:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Projected Actual Emissions* (tons per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO</td>
<td>16.3</td>
</tr>
<tr>
<td>NOx</td>
<td>33.9</td>
</tr>
<tr>
<td>PM (filterable+condensable)</td>
<td>9.2</td>
</tr>
<tr>
<td>PM-10</td>
<td>9.2</td>
</tr>
<tr>
<td>PM-2.5</td>
<td>9.2</td>
</tr>
<tr>
<td>SO2</td>
<td>1.0</td>
</tr>
<tr>
<td>VOC</td>
<td>1.4</td>
</tr>
</tbody>
</table>

* The projected actual emissions are not enforceable limitations. If the reported actual emissions exceed the projected actual emissions, the Permittee shall include in its annual report an explanation as to why actual emissions exceeded the projected actual emissions.

5. 15A NCAC 02D .0530(u): PREVENTION OF SIGNIFICANT DETERIORATION (USE OF PROJECTED ACTUAL EMISSIONS)

a. The Permittee has used projected actual emissions to avoid applicability of prevention of significant deterioration requirements for the project consisting of upgrading the hot gas path of the turbine (ID No. Unit 1) as fully described in Application No. 8000163.20A. In order to verify the assumptions used in the projected actual emissions calculations, the Permittee shall comply with the record keeping and reporting requirements in Sections 2.1 A.5.b and c below.
Recordkeeping [15A NCAC 02Q .0508(f)]
b. The Permittee shall maintain records of actual emissions for the pollutants in Table 2.1 A.5-1 in tons per year on a calendar year basis for five years following the resumption of regular operations of the turbine (ID No. Unit 1) as fully described in Application No. 8000163.20A. The Permittee shall make the information, documented and maintained in this condition available to the Director or the general public pursuant to the requirements in 40 CFR 70.4(b)(3)(viii).
i. The turbine (ID No. Unit 1) resumed operation in March 2021.
ii. The first recordkeeping year is CY2022.
iii. The final recordkeeping year is CY2026.

Reporting [15A NCAC 02Q .0508(f)]
c. The Permittee shall submit a report of the emissions of the pollutants in Table 2.1 A.5-1 to the Director within 60 days after the end of each calendar year during which the records in Section 2.1 A.5.b above must be generated. The report shall contain the items listed in 40 CFR 51.166(r)(6)(v)(a) through (c). The reported actual emissions for each of the five calendar years for the following pollutants will be compared to the respective projected actual emissions as included below:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Projected Actual Emissions* (tons per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO</td>
<td>17.64</td>
</tr>
<tr>
<td>NOx</td>
<td>34.22</td>
</tr>
<tr>
<td>PM (filterable+condensable)</td>
<td>9.95</td>
</tr>
<tr>
<td>PM-10</td>
<td>9.95</td>
</tr>
<tr>
<td>PM-2.5</td>
<td>9.95</td>
</tr>
<tr>
<td>SO(_2)</td>
<td>0.62</td>
</tr>
<tr>
<td>VOC</td>
<td>1.48</td>
</tr>
</tbody>
</table>

* The projected actual emissions are not enforceable limitations. If the reported actual emissions exceed the projected actual emissions, the Permittee shall include in its annual report an explanation as to why actual emissions exceeded the projected actual emissions.

6. 15A NCAC 02D .0530(u): PREVENTION OF SIGNIFICANT DETERIORATION (USE OF PROJECTED ACTUAL EMISSIONS)
a. The Permittee has used projected actual emissions to avoid applicability of prevention of significant deterioration requirements for the project consisting of upgrading the hot gas path of the turbine (ID No. Unit 3) as fully described in Application No. 8000163.20B. In order to verify the assumptions used in the projected actual emissions calculations, the Permittee shall comply with the record keeping and reporting requirements in Sections 2.1 A.6.b and c below.

Recordkeeping [15A NCAC 02Q .0508(f)]
b. The Permittee shall maintain records of actual emissions for the pollutants in Table 2.1 A.6-1 in tons per year on a calendar year basis for five years following the resumption of regular operations of the turbine (ID No. Unit 3) as fully described in Application No. 8000163.20B. The Permittee shall make the information, documented and maintained in this condition available to the Director or the general public pursuant to the requirements in 40 CFR 70.4(b)(3)(viii).
i. The turbine (ID No. Unit 3) resumed operation in April 2021.
ii. The first recordkeeping year is CY2022.
iii. The final recordkeeping year is CY2026.

Reporting [15A NCAC 02Q .0508(f)]
c. The Permittee shall submit a report of the emissions of the pollutants in Table 2.1 A.6-1 to the Director within 60 days after the end of each calendar year during which the records in Section 2.1 A.6.b above must be generated. The report shall contain the items listed in 40 CFR 51.166(r)(6)(v)(a) through (c). The reported actual emissions for each of the five calendar years for the following pollutants will be compared to the respective projected actual emissions as included below:
Table 2.1 A.6-1

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Projected Actual Emissions* (tons per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO</td>
<td>16.41</td>
</tr>
<tr>
<td>NOx</td>
<td>33.68</td>
</tr>
<tr>
<td>PM (filterable+condensable)</td>
<td>9.21</td>
</tr>
<tr>
<td>PM-10</td>
<td>9.21</td>
</tr>
<tr>
<td>PM-2.5</td>
<td>9.21</td>
</tr>
<tr>
<td>SO₂</td>
<td>0.60</td>
</tr>
<tr>
<td>VOC</td>
<td>1.39</td>
</tr>
</tbody>
</table>

* The projected actual emissions are not enforceable limitations. If the reported actual emissions exceed the projected actual emissions, the Permittee shall include in its annual report an explanation as to why actual emissions exceeded the projected actual emissions.
B. Affected Sources:
  - One natural gas/No. 2 fuel oil-fired combined-cycle internal combustion turbine (ID No. Unit 4) with water injection capability for NOx control when firing fuel oil (ID No. CD-U4) and with associated SCR (ID No. Unit 4 SCR)
  - One natural gas-fired combined-cycle internal combustion turbine (ID No. Unit 5) with associated SCR (ID No. Unit 5 SCR)

The following table provides a summary of limits and standards for the emission source(s) described above:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Limits/Standards</th>
<th>Applicable Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visible emissions</td>
<td>20 percent opacity</td>
<td>15A NCAC 02D .0521</td>
</tr>
<tr>
<td>Sulfur dioxide</td>
<td>As defined in specific condition</td>
<td>15A NCAC 02D .0524, 40 CFR Part 60 Subpart GG</td>
</tr>
<tr>
<td>Nitrogen oxides</td>
<td>BACT limits</td>
<td>15A NCAC 02D .0530</td>
</tr>
<tr>
<td>Opacity, Nitrogen oxides, Sulfur dioxide, Carbon monoxide, Volatile organic compounds, Particulates/PM&lt;sub&gt;10&lt;/sub&gt;, Sulfuric acid, Ammonia</td>
<td>Annual tracking report</td>
<td>15A NCAC 02D .0530(u)</td>
</tr>
<tr>
<td>Nitrogen oxides</td>
<td>See Section 2.2 Phase II Acid Rain Permit Requirements</td>
<td>15A NCAC 02Q .0402, 40 CFR Part 72</td>
</tr>
<tr>
<td></td>
<td>See Section 2.3 Cross State Air Pollution Rule Requirements</td>
<td>40 CFR Part 97 Subpart AAAAA</td>
</tr>
<tr>
<td>Sulfur dioxide</td>
<td>See Section 2.2 Phase II Acid Rain Permit Requirements</td>
<td>15A NCAC 02Q .0402, 40 CFR Part 72</td>
</tr>
<tr>
<td></td>
<td>See Section 2.3 Cross State Air Pollution Rule Requirements</td>
<td>40 CFR Part 97 Subpart CCCCC</td>
</tr>
<tr>
<td>n/a</td>
<td>See Section 2.1 B.6 Submit an application for significant modification within 12 months of completing the project upgrade as described in Permit Application No. 8000163.21A.</td>
<td>15A NCAC 02Q .0504</td>
</tr>
</tbody>
</table>

1. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS
   a. Visible emissions from these sources (ID Nos. Unit 4 and Unit 5) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

   Testing [15A NCAC 02Q .0508(f)]
   b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

   Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]
   c. No monitoring/recordkeeping is required for visible emissions from the firing of natural gas in these sources (ID Nos. Unit 4 and Unit 5).
d. i. To ensure compliance, prior to this source (ID No. Unit 4) operating more than 1,100 hours using No. 2 fuel oil and for each subsequent 1,100 hours of operation after the last test (excluding any hours while firing natural gas), the Permittee shall observe the emission points of this source (ID Nos. Unit 4) for any visible emissions above normal. The observations must be made for each 1,100 operating hour period to ensure compliance with this requirement. If visible emissions are observed to be above normal, the Permittee shall either:
(A) take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
(B) demonstrate that the percent opacity from the emissions points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 B.1.a above.
ii. The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if:
(A) the above-normal emissions are not corrected per Section 2.1 B.1.d.i.(A) above;
(B) if the demonstration in Section 2.1 B.1.d.i.(B) above cannot be made; or
(C) the 1,100 hours of operation using No. 2 fuel oil observations are not conducted per Section 2.1 B.1.d.i above.
iii. The results of the monitoring activities given in Section 2.1 B.1.d. above shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
   iii. the results of any corrective actions performed.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]
f. No reporting is required for visible emissions from the firing of natural gas in these sources (ID Nos. Unit 4 and Unit 5).
g. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Section 2.1 B.1.d and e above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 02D .0524: NEW SOURCE PERFORMANCE STANDARDS

a. For these sources (ID Nos. Unit 4 and Unit 5), the Permittee shall comply with all applicable provisions, including the requirements for emission standards, notification, testing, reporting, recordkeeping, and monitoring in accordance with 15A NCAC 02D .0524, “New Source Performance Standards” (NSPS) as promulgated in 40 CFR Part 60, Subpart GG, including Subpart A “General Provisions.”
b. As required by 15A NCAC 02D .0524, for these sources (ID Nos. Unit 4 and Unit 5), the Permittee shall comply with the following emission standards at all times, except during start-up, shutdown, and malfunction:

<table>
<thead>
<tr>
<th>Affected Facility</th>
<th>Pollutant</th>
<th>Emission Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 4 and Unit 5</td>
<td>Nitrogen oxides</td>
<td>0.011% by volume at 15% O₂ and on a dry basis (110 ppmvd at 15% O₂), while firing natural gas or No. 2 fuel oil³</td>
</tr>
<tr>
<td>Unit 4 and Unit 5</td>
<td>Sulfur dioxide</td>
<td>0.015% by volume at 15% O₂ and on a dry basis (150 ppmvd at 15% O₂), while firing natural gas or No. 2 fuel oil or 0.8% by weight sulfur (8,000 ppmw) in natural gas or No. 2 fuel oil</td>
</tr>
</tbody>
</table>

Testing [15A NCAC 02Q .0508(f)]
c. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.2.b above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524.

³Emission limit of nitrogen oxides for these sources (ID Nos. Unit 4 and Unit 5) is based upon manufacturer's rated heat rates of 9,330 Btu/kW-hr for No. 2 fuel oil and 9,290 Btu/kW-hr for natural gas, at a peak load of 100%. The emission limit accounts for no credit for fuel-bound nitrogen in either natural gas or No. 2 fuel oil (i.e., F = 0% by volume).
Monitoring/Recordkeeping [15A NCAC 02Q.0508(f)]

d. The Permittee is subject to the following monitoring and recordkeeping requirements:

i. As per §60.334(b), for these sources (ID Nos. Unit 4 and Unit 5) which have commenced construction, reconstruction or modification after October 3, 1977 but before July 8, 2004, and which uses water injection to control NOx emissions, as an alternative to operating the continuous monitoring system described in §60.334(a), the Permittee has elected to install, certify, maintain, operate, and quality-assure a continuous emission monitoring system (CEMS) consisting of NOx and O2 monitors, according to the requirements of 40 CFR 60 Appendix B or 40 CFR 75. The CEMS shall comply with all applicable requirements of §60.334(b). If the CEMS does not comply with the requirements of §60.334(b) or the NOx emissions excluding the emissions during start-up, shutdown, and malfunction from the turbines exceed the emission limit in Section 2.1 B.2.b above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D.0524. If the NOx emissions during start-up, shutdown, and malfunction from the turbines exceed the emission limit in Section 2.1 B.2.b above, the Permittee may be deemed in noncompliance with 15A NCAC 02D.0524, specifically with the requirements of 40 CFR §60.11(d).

ii. As per §60.334(c), for these sources (ID Nos. Unit 4 and Unit 5) which have commenced construction, reconstruction or modification after October 3, 1977, but before July 8, 2004, and which does not use water injection to control NOx emissions, the Permittee has elected, for purposes of determining excess emissions, a CEMS that meets the requirements of §60.334(b). If the CEMS does not comply with the requirements of §60.334(b) or the NOx emissions excluding the emissions during start-up, shutdown, and malfunction from the turbines exceed the emission limit in 15A NCAC 02D.0524, the Permittee shall be deemed in noncompliance with 15A NCAC 02D.0524. If the NOx emissions during start-up, shutdown, and malfunction from the turbines exceed the emission limit in Section 2.1 B.2.b above, the Permittee may be deemed in noncompliance with 15A NCAC 02D.0524, specifically with the requirements of 40 CFR §60.11(d).

iii. As per §60.334(h)(2), monitoring for nitrogen content of the natural gas and fuel oil, combusted in these sources (ID Nos. Unit 4 and Unit 5) is not required.

iv. As per §60.334(h)(3), the Permittee may elect not to monitor the total sulfur content of the natural gas combusted in these sources (ID Nos. Unit 4 and Unit 5), even though a DAQ approved existing custom fuel monitoring schedule requires the Permittee to monitor natural gas combusted in these sources (ID Nos. Unit 4 and Unit 5) using the procedures of 40 CFR 75 Appendix D. If the provision of this Section is elected, the Permittee shall use one of the following sources of information to make the required demonstration that the gaseous fuel combusted in these sources (ID Nos. Unit 4 and Unit 5) does qualify as a natural gas in §60.331(u):

A. The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20 grains/100 scf or less; or

B. Representative fuel sampling data, which show that the sulfur content of the gaseous fuel does not exceed 20 grains/100 scf. At a minimum, the amount of fuel sampling data specified in Section 2.3.1.4 or 2.3.2.4 of Appendix D to 40 CFR 75 is required.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D.0524, if the gaseous fuel fired in these sources (ID Nos. Unit 4 and Unit 5) does not qualify as a natural gas in §60.331(u) or the Permittee does not make the above demonstration, or the SO2 emissions excluding the emissions during start-up, shutdown, and malfunction from the turbines exceed the emission limit in Section 2.1 B.2.b above.

v. As per §60.334(h) and the DAQ approved custom fuel monitoring schedule, for these sources (ID Nos. Unit 4 and Unit 5), the Permittee shall sample each tank of fuel oil to determine sulfur content after all shipments have been transferred into the tank and prior to placing the tank in service for supply to the turbines. Samples for fuel oil shall be analyzed for sulfur content in accordance with 40 CFR Part 75, Appendix D. After each tank of fuel oil demonstrates initial compliance with the sulfur content limit and has been placed into service, the Permittee shall monitor the sulfur content of future fuel oil shipments by obtaining vendor certification that the sulfur content of the delivered fuel oil is lower than 8,000 ppmw.

B. If the Permittee accepts a delivery of fuel oil with a sulfur content of greater than 8,000 ppmw, the Permittee shall sample each fuel tank as required by Paragraph 2.1.B.2.d.v, above.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D.0524, if the fuel oil or natural gas fired in these sources (ID Nos. Unit 4 and Unit 5) does not comply with the sulfur content limit in Section 2.1 B.2.b above or the SO2 emissions, excluding the emissions during start-up, shutdown, and malfunction from these sources (ID Nos.

---

4 The Permittee has not claimed any credit for fuel bound nitrogen in either natural gas or fuel oil for establishing the emission limit for NOX.
Nos. Unit 4 and Unit 5) exceed the emission limit in Section 2.1 B.2.b above, or the Permittee does not comply with the requirements of DAQ approved custom fuel monitoring schedule.

**Reporting** [15A NCAC 02Q .0508(f)]

e. The Permittee is required to REPORT to the Regional Supervisor, DAQ, in WRITING, of the following:

   i. For each affected unit (ID Nos. Unit 4 and Unit 5), required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content or fuel nitrogen content under 40 CFR 60 Subpart GG, the Permittee shall submit reports of excess emissions and monitor downtime, in accordance with §60.7(c). Excess emissions shall be reported for all periods of unit operation, including startup, shutdown and malfunction. For the purpose of reports required under §60.7(c), periods of excess emissions and monitor downtime that shall be reported are defined below [§60.334(j)]:

   A. When using NOx and diluent CEMS, excess emissions for NOx shall be defined as any unit operating hour in which the 4-hour rolling average NOx concentration exceeds the emission limit in Section 2.1 B.2.b above. For the purposes of this Subpart, a “4-hour rolling average NOx concentration” is the arithmetic average of the average NOx concentration measured by the CEMS for a given hour (corrected to 15 percent O2) and the three unit operating hour average NOx concentrations immediately preceding that unit operating hour [§60.334(j)(1)(iii)(A)].

   B. When using NOx and diluent CEMS, a period of monitor downtime for NOx shall be defined as any unit operating hour in which sufficient data are not obtained to validate the hour, for either NOx concentration or diluent (or both) [§60.334(j)(1)(iii)(B)].

   C. When using NOx and diluent CEMS, each excess emission report for NOx shall include the ambient conditions (temperature, pressure, and humidity) at the time of the excess emission period and (if the owner or operator has claimed an emission allowance for fuel bound nitrogen) the nitrogen content of the fuel during the period of excess emissions. The Permittee does not have to report ambient conditions, because the Permittee has elected not to use the optional ISO correction equation [§60.334(j)(1)(iii)(C)].

   D. When the Permittee is required to monitor the sulfur content of the fuel in Section 2.1 B.2.d.v above, excess emissions for SO2, while sampling of gaseous fuel and fuel oil samples obtained using daily sampling, flow proportional sampling, or sampling from the unit’s storage tank, shall be defined as each unit operating hour included in the period beginning on the date and hour of any sample for which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 weight percent and ending on the date and hour that a subsequent sample is taken that demonstrates compliance with the sulfur limit. The requirement of this Section does not apply to natural gas, if the Permittee elects not to monitor the total sulfur content of the natural gas as per Section 2.1 B.2.d.iv above [§60.334(j)(2)(ii)].

   E. When the Permittee is required to monitor the sulfur content of the fuel in Section 2.1 B.2.d.v above, a period of monitor downtime for SO2 shall begin when a required sample is not taken by its due date. A period of monitor downtime shall also begin on the date and hour of any sample, if invalid results are obtained. The period of monitor downtime shall include only unit operating hours, and ends on the date and hour of the next valid sample. The requirement of this Section does not apply to natural gas, if the Permittee elects to monitor the total sulfur content of the natural gas as per Section 2.1 B.2.d.iv above [§60.334(j)(2)(iii)].

ii. The Permittee shall submit all reports required under §60.7(c) for these sources (ID Nos. Unit 4 and Unit 5), postmarked by the 30th day following the end of each calendar quarter [§60.334(j)(5)].

iii. For these sources (ID Nos. Unit 4 and Unit 5), the Permittee shall submit the results of sampling for sulfur content of No. 2 fuel oil fired, and the natural gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract or the results of sampling of natural gas, as appropriate, postmarked by the 30th day following the end of each calendar quarter.

iv. All instances of deviations from the requirements of this permit must be clearly identified. The quarterly reports, acceptable to the Regional Air Quality Supervisor, shall be postmarked on or before January 30 of each calendar year for the preceding three-month period between October and December, April 30 of each calendar year for the preceding three-month period between January and March, July 30 of each calendar year for the preceding three-month period between April and October 30 for the calendar year for the preceding three-month period between July and September.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if the reporting requirements in conditions ii. and iii. are not met.

3. 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

   a. The following Best Available Control Technology (BACT) limits shall not be exceeded:

      i. Short term maximum emission rates for each source (ID No. Unit 4 and Unit 5) shall not exceed:
**AFFECTED SOURCE** | **POLLUTANT** | **BACT EMISSION LIMITS** | **BACT CONTROLS**
|---|---|---|---
| **Natural Gas** | **No. 2 Fuel Oil** | **Natural gas: dry-low NOx and SCR fuel oil: water injection and SCR** |
| Opacity | 20% | 20% | combustion control |
| nitrogen oxides | 0.010 pounds per million BTU (lb/MMBtu) 2.5 ppmvd (24-hour rolling average)b,d | 0.054 lb/MMBtu 13 ppmvd (24-hour rolling average)c,e | |
| sulfur dioxide | 0.0006 lb/MMBtu 9 ppmvd | 0.054 lb/MMBtu 20 ppmvd | 0.05% sulfur fuel oil |
| carbon monoxide | 0.018 lb/MMBtu 1.4 ppmvw | 0.037 lb/MMBtu 3.5 ppmvw | combustion control |
| VOC | 0.00172 lb/MMBtu | 0.004 lb/MMBtu | combustion control |
| particulates/PM10 (front half) | 0.0055 lb/MMBtu | 0.009 lb/MMBtu | combustion control |
| sulfuric acid | fuel oil sulfur content | 0.05% sulfur fuel oil |
| ammonia | 10 ppmvd | 10 ppmvd |

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**a** BACT limits shall apply at all times except as provided under Section 2.1 B.3.a.iii BACT limits for No. 2 fuel oil firing are applicable to Unit 4 only and are not applicable to Unit 5.

**b** ppmvd = parts per million by volume on a dry basis at 15% O2.

**c** 24-hour rolling average is calculated using only actual operating hours (periods of zero emissions when not operating are not included).

**d** The NOx emission limit is 2.5 ppmvd for the first 500 hours of operation (on a 24-hour rolling average basis). After 500 hours, the emission limit is 3.5 ppmvd (on a 24-hour rolling average basis). However, the ammonia injection rate shall not exceed that rate established per Section 2.1 B.3.j.i at each load point. Three months after the 24-hour rolling average exceeds 3.3 ppmvd three times within any rolling 50-hour period, the emission limit changes to 2.5 ppmvd for the next 500 hours of operation. However, the Permittee will not be deemed to be out of compliance until the 24-hour rolling average exceeds 3.5 ppmvd during this three-month period. After any 500-hour period where the 2.5 ppmvd is maintained without exceedance of the 3.3 ppmvd trigger level, the limit reverts back to 3.5 ppmvd.

**e** The NOx emission limit is 13 ppmvd for the first 500 hours of operation (on a 24-hour rolling average basis). After 500 hours, the emission limit is 18 ppmvd (on a 24-hour rolling average basis). However, the ammonia injection rate shall not exceed that rate established per Section 2.1 B.3.j.i at each load point. Three months after the 24-hour rolling average exceeds 17 ppmvd three times within any rolling 50-hour period, the emission limit changes to 13 ppmvd for the next 500 hours of operation. However, the Permittee will not be deemed to be out of compliance until the 24-hour rolling average exceeds 18 ppmvd during this three-month period. After any 500-hour period where the 13 ppmvd is maintained without exceedance of the 17 ppmvd trigger level, the limit reverts back to 18 ppmvd.

**ii.** Emissions resulting from start-up, shutdown or malfunction above those given in Section 2.1 B.3.a.i are permitted provided that optimal operational practices are adhered to and periods of excess emissions are minimized. For these sources (ID Nos. Unit 4 and Unit 5), periods of excess emissions due to start-up and/or shutdown shall not exceed six hours (360 total minutes) in any 24-hour block period beginning at midnight. (A) When firing fuel oil, "start-up" is defined as the period from initial firing to 50% load, and "shutdown" is defined as the period from 50% load to flame out.

(B) When firing natural gas, "start-up" is defined as the period from initial firing until the turbine reaches Mode 6 operation, and "shutdown" is defined as the period from when the turbine drops below Mode 6 operation to flame out.

(C) "Mode 6" is defined by the turbine manufacturer’s dry low NOx control system information.

**b.** The following emission limits apply in order to demonstrate compliance with the National Ambient Air Quality Standards as required by 15A NCAC 02D .0530; 40 CFR 51.166(k):
AFFECTED SOURCE | POLLUTANT | EMISSION LIMIT
--- | --- | ---
Unit 1 through Unit 5, total | nitrogen dioxide | 1,224.4
 | sulfur dioxide | 257.3
 | carbon monoxide | 11,580
 | particulates/PM$_{10}$ (front half) | 2,680

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\[ \text{Annual (tons/yr)}^a \] | per 24-hour (lb) | per 8-hour (lb) | per 3-hour (lb) | per 1-hour (lb)
--- | --- | --- | --- | ---
1,224.4 | | | | |
257.3 | 11,580 | | |
11,580 | 2,680 | | |
2,680 | 335 | | |

\[ a \text{Tons per rolling consecutive 12-month period. Annual emissions for the combustion turbines are for all five turbines firing fuel oil for 1,000 hours per year, three simple-cycle turbines firing natural gas for 1,000 hours per year and two combined-cycle turbines firing natural gas for 7,760 hours per year, at 100% load.} \]

**Testing** [15A NCAC 02Q .0508(f)]

- If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Sections 2.1 B.3.a and b above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

**Monitoring/Recordkeeping** [15A NCAC 02Q .0508(f)]

- The maximum annual hours of operation for this source (ID No. Unit 4) shall not exceed 1,000 full load equivalent hours per rolling consecutive 12-month period when firing No. 2 fuel oil.
- The Permittee shall record and maintain records of the actual number of hours of operation, and the amounts of each fuel burned during each day for each source (ID Nos. Unit 4 and Unit 5) in accordance with 40 CFR Part 75. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the above records are not maintained.
- Only natural gas shall be burned during summer months (April through October) except during operational curtailment of interruptible transportation, Force Majeure events, malfunctions, functional equipment testing (periods not to exceed one hour per week), and during compliance testing.
- No more than three sources (ID Nos. Unit 1 through Unit 4) shall burn No. 2 fuel oil simultaneously.
- The sulfur content of the No. 2 fuel oil shall not exceed 0.05 percent sulfur by weight.
- Water injection shall be used when the sources (ID Nos. Units 1 through Unit 4) are firing No. 2 fuel oil only.
- For each source (ID Nos. Unit 4 and Unit 5), compliance with the BACT NOx and ammonia limits shall be demonstrated as follows for the selective catalytic reduction (SCR) system:
  - The Permittee shall install and operate an ammonia flow meter to measure and record the ammonia injection rate to the SCR system. The ammonia injection rates corresponding to a maximum ammonia slip of 10 ppmvd and necessary to comply with the BACT NOx limits shall be established (and made available to the Division of Air Quality upon request) during the most recent performance tests when firing No. 2 fuel oil and natural gas at 50, 70, 85 and 100 percent of peak load. During periods of performance testing, the Permittee may adjust the ammonia injection rate as needed to re-establish an ammonia injection rate curve that demonstrates compliance with the BACT NOx limit.
  - The SCR shall operate at all times that the turbine is operating except during turbine start-up and shutdown periods to the extent recommended by the manufacturer and operated in a manner so as to minimize ammonia slip.
  - During periods of NOx CEM downtimes or malfunctions, the Permittee shall operate the SCR system with the ammonia injection rate determined to demonstrate compliance for the appropriate load as specified in Section 2.1 B.3.j.i.
  - NOx CEMS data reported to demonstrate compliance with the BACT and annual emission limit in Sections 2.1 B.3.a and b above shall include data substituted using the missing data procedures in Subpart D of 40 CFR Part 75 except that unbiased values may be used. The missing data procedure shall be used whenever the emission unit combuts any fuel.
  - When using a NOx CEMS to demonstrate compliance with the BACT and annual emission limits in Sections 2.1 B.3.a and b above, monitor downtime:
    - (A) shall not exceed 5.0 percent of the operating time in a calendar quarter;
    - (B) shall be calculated using the following equation:
%MD = \left(\frac{\text{Total Monitor Downtime}}{\text{Total Source Operating Time}}\right) \times 100

Where:
"Total Monitor Downtime" is the number of hours in a calendar quarter where an emission source was operating but data from the associated CEMS are invalid, not available, and/or or filled with missing data procedure; and
"Total Source Operating Time" is the number of hours in a calendar quarter where the emission source associated with the CEMS was operating.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the nitrogen oxide emissions are not monitored using CEMS as required in Section 2.1 B.2.j above, or if the ammonia injection rate to the SCR system is not continuously measured and recorded as required in Section 2.1 B.3.j.i above, or if NOx or ammonia emission rate of combustion turbine is above the limit given in Sections 2.1 B.3.a and b above.

k. Under the provisions of North Carolina General Statute 143-215.108, for each source (ID Nos. Unit 4 and Unit 5), the Permittee shall monitor operations to demonstrate compliance with the BACT emission limits as follows:
   i. Determine the sulfur content of the fuel being fired in each combustion turbine in accordance with Section 2.1 B.2.d.v above.
   ii. Determine nitrogen oxide emissions as specified in Section 2.1 B.2.j above.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the records required in Section 2.1 B.2.d.i and ii above are not kept or the nitrogen oxide emission rate of combustion turbine is above the limit given in Sections 2.1 B.3.a and b above.

Reporting [15A NCAC 02Q .0508(f)]

l. The Permittee shall submit in writing a report postmarked on or before January 30 of each calendar year for the preceding three-month period between October and December. April 30 of each calendar year for the preceding three-month period between January and March, July 30 of each calendar year for the preceding three-month period between April and June, and October 30 of each calendar year for the preceding three-month period between July and September. The quarterly report shall include the following:
   i. periods of excess emissions for sulfur dioxide for any daily period during which the sulfur content of the No. 2 fuel oil being fired exceeds 0.05 percent by weight; and
   ii. periods of excess emissions and monitoring systems performance report and/or a summary report form and monitoring report for the NOx CEMS in the format approved by DAQ Technical Services Section. The Permittee shall report excess emissions for all periods of operation, including start-up, shutdown, and malfunction excluding periods of excess emissions permitted by Section 2.1 B.3.a.ii above. Written reports shall include information required in 40 CFR 60.7(c) and (d). This report shall also contain the emission limitation as specified in Section 2.1 B.3.a.i above.

   (A) For the NOx limits in Section 2.1 B.3.a.i above, excess emissions are defined as any consecutive 24-hour period where NOx emissions exceed the 24-hour emission limit in Section 2.1 B.3.a.i above including any substituted data required by Section 2.1 B.3.j.iv above.

   (B) For the NOx limits in Section 2.1 B.3.b above, excess emissions are defined as any consecutive 12-month period where NOx emissions exceed the annual emission limit in Section 2.1 B.3.b, including any substituted data required by Section 2.1 B.3.j.iv.

4. 15A NCAC 02D .0530(u): PREVENTION OF SIGNIFICANT DETERIORATION
   (USE OF PROJECTED ACTUAL EMISSIONS)

a. The Permittee has used projected actual emissions to avoid applicability of prevention of significant deterioration requirements for the advanced gas path and optimized load path upgrade for the combustion turbines (ID Nos. Unit 4 and Unit 5). The Permittee shall comply with the following record keeping and reporting requirements.

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

b. The Permittee shall calculate and maintain records of annual emissions for nitrogen oxides, carbon monoxide, volatile organic compounds, particulates, PM_{10}, PM_{2.5}, and sulfur dioxide in tons per year on a calendar year basis related to the modification for five years following the resumption of regular operations after the upgrade for the combustion turbines (ID Nos. Unit 4 and Unit 5). The Permittee shall make the information, documented and maintained in this Section 2.1 B.4.b, available to the Director or the general public pursuant to the requirements in 40 CFR 70.4(b)(3)(viii).
   i. The first reporting year is CY2018.
   ii. The last reporting year is CY2022.
Reporting [15A NCAC 02Q .0508(f)]

c. The Permittee shall submit a report to the Director within 60 days after the end of each calendar year during which the records in Section 2.1.B.4.b must be kept. The report shall contain the items listed in 40 CFR 51.166(r)(6)(v)(a) through (c).

The reported actual emissions (post-construction emissions, including any demand growth) for each of the five calendar years will be compared to the following projected actual emissions (pre-construction projection, including any demand growth) as included in the Plant Rowan County permit application 8000163.16C:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Projected Actual Emissions* (Unit 4 and Unit 5 combined) (tons per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen oxides</td>
<td>134.0</td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>227.6</td>
</tr>
<tr>
<td>Volatile organic compounds</td>
<td>21.5</td>
</tr>
<tr>
<td>Particulates (front half)</td>
<td>69.5</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>98.6</td>
</tr>
<tr>
<td>PM$_{2.5}$</td>
<td>98.6</td>
</tr>
<tr>
<td>Sulfur dioxide</td>
<td>7.6</td>
</tr>
</tbody>
</table>

* These projections are not enforceable limitations. If projected emissions are exceeded, consistent with 15A NCAC 02D .0530, the Permittee shall include in its annual report an explanation as to why the actual rates exceeded the projection.

5. 15A NCAC 02D .0530(u): PREVENTION OF SIGNIFICANT DETERIORATION (USE OF PROJECTED ACTUAL EMISSIONS)

a. The Permittee has used projected actual emissions to avoid applicability of prevention of significant deterioration requirements pursuant to Permit Application No. 8000163.21A for the HOR0 Upgrade Project for the combustion turbines (ID Nos. Unit 4 and Unit 5). In order to verify the assumptions used in the projected actual emissions calculations, the Permittee shall comply with the requirements in Section 2.1 B.5.b below.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

b. Upon commencement of regular operation of the combustion turbines (ID Nos. Unit 4 and Unit 5), the Permittee shall perform the following:

i. The Permittee shall maintain records of annual emissions for nitrogen oxides, carbon monoxide, volatile organic compounds, particulates, PM$_{10}$, PM$_{2.5}$, and sulfur dioxide from the combustion turbines (ID Nos. Unit 4 and Unit 5) in tons per year on a calendar year basis related to the modification of the combustion turbines. The Permittee shall calculate these annual emissions for five years following the resumption of regular operations after the upgrade for the combustion turbines (ID Nos. Unit 4 and Unit 5).

ii. The Permittee shall submit a report to the Director within 60 days after the end of each calendar year during which these records must be kept. The report shall contain the items listed in 40 CFR 51.166(r)(6)(v)(a) through (c).

iii. The Permittee shall make the information documented and maintained in this condition available to the Director or the general public pursuant to the requirements in 40 CFR 70.4(b)(3)(viii).

iv. The Permittee shall provide a comparison of the reported actual emissions (post-construction emissions, including any demand growth) for each of the five calendar years to the projected actual emissions (pre-construction projection, including any demand growth) as included below:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Projected Actual Emissions* (Unit 4 and Unit 5 combined) (tons per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen oxides</td>
<td>134.7</td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>237.9</td>
</tr>
<tr>
<td>Volatile organic compounds</td>
<td>22.5</td>
</tr>
<tr>
<td>Particulates (filterable + condensable)</td>
<td>59.5</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>59.5</td>
</tr>
<tr>
<td>PM$_{2.5}$</td>
<td>59.5</td>
</tr>
</tbody>
</table>
Pollutant | Projected Actual Emissions* (Unit 4 and Unit 5 combined) (tons per year)
--- | ---
Sulfur dioxide | 7.9

*These projections are not enforceable limitations. If projected emissions are exceeded, consistent with 15A NCAC 02D .0530, the Permittee shall include in its annual report an explanation as to why the actual rates exceeded the projection.

6. **15A NCAC 02Q .0504: OPTION FOR OBTAINING CONSTRUCTION AND OPERATION PERMIT**

   **Permitting** [15A NCAC 02Q .0504(d)]
   a. Pursuant to 15A NCAC 02Q .0501(b)(2), for completion of the two-step significant modification process initiated by Application No. 8000163.21A, the Permittee shall file an amended application following the procedures of 15A NCAC 02Q .0500 within one year from the date of beginning operation of these turbines (ID Nos. Unit 4 or Unit 5).

   **Reporting** [15A NCAC 02Q .0508(f)]
   b. The Permittee shall notify the Regional Office in writing of the date of beginning operation of these turbines (ID Nos. Unit 4 or Unit 5) after completing the HOR0 upgrade project, postmarked no later than 30 days after such date.
C. One cooling tower with drift eliminators (ID No. Tower 1)

The following table provides a summary of limits and standards for the emission source(s) described above:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Limits/Standards</th>
<th>Applicable Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particulate matter</td>
<td>$E = 4.10 \times P^{0.67}$, for process rates $\leq 30$ tons per hour, OR $E = 55 \times P^{0.11} - 40$, for process rates $&gt; 30$ tons per hour Where: $E$ = allowable emission rate in pounds per hour $P$ = process weight in tons per hour</td>
<td>15A NCAC 02D .0515</td>
</tr>
<tr>
<td>Particulates/PM$_{10}$</td>
<td>Less than 33.12 pounds per day AND Less than 6.0 tons per consecutive rolling 12-month period</td>
<td>15A NCAC 02D .0530</td>
</tr>
</tbody>
</table>

1. **15A NCAC 02D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES**
   a. Emissions of particulate matter from this source (ID No. Tower 1) shall not exceed an allowable emission rate as calculated by the following equation:

   $E = 4.10 \times P^{0.67}$ (for process rates less than or equal to 30 tons per hour), or $E = 55 \times P^{0.11} - 40$ (for process rates greater than 30 tons per hour)

   Where $E$ = allowable emission rate in pounds per hour $P$ = process weight in tons per hour

   Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

   **Testing** [15A NCAC 02Q .0508(f)]
   b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 C.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.

   **Monitoring/Recordkeeping/Reporting** [15A NCAC 02Q .0508(f)]
   c. No monitoring/recordkeeping/reporting is required for particulate matter emissions from this source (ID No. Tower 1).

2. **15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION**
   a. In order to demonstrate compliance with the National Ambient Air Quality Standards as required by 15A NCAC 02D .0530; 40 CFR 51.166(k), particulate/PM10 emissions from this source (ID No. Tower 1) shall not exceed 33.12 pounds per day and 6.0 tons per consecutive rolling 12-month period.

   **Monitoring/Recordkeeping/Reporting** [15A NCAC 02Q .0508(f)]
   b. No monitoring/recordkeeping/reporting is required for particulate emissions from this source (ID No. Tower 1).
D. One firetube design natural gas-fired auxiliary boiler (ID No. ES-6)

The following table provides a summary of limits and standards for the emission source(s) described above:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Limits/Standards</th>
<th>Applicable Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particulate matter</td>
<td>0.53 pound per million Btu heat input</td>
<td>15A NCAC 02D .0503</td>
</tr>
<tr>
<td>Sulfur dioxide</td>
<td>2.3 pounds per million Btu heat input</td>
<td>15A NCAC 02D .0516</td>
</tr>
<tr>
<td>Visible emissions</td>
<td>20 percent opacity</td>
<td>15A NCAC 02D .0521</td>
</tr>
<tr>
<td>None</td>
<td>Recordkeeping</td>
<td>15A NCAC 02D .0524</td>
</tr>
<tr>
<td>Nitrogen oxides</td>
<td>Annual Boiler Tune-ups Required</td>
<td>15A NCAC 02D .1407</td>
</tr>
<tr>
<td>Hazardous Air Pollutants</td>
<td>40 CFR Part 63, Subpart DD - NESHAP for Boilers</td>
<td>15A NCAC 02D .1111</td>
</tr>
</tbody>
</table>

1. 15A NCAC 02D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS
   a. Emissions of particulate matter from the combustion of natural gas that are discharged from this source (ID No. ES-6) into the atmosphere shall not exceed 0.53 pounds per million Btu heat input.

      Testing [15A NCAC 02Q .0508(f)]
      b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 D.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503.

      Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]
      c. No monitoring/recordkeeping/reporting is required for particulate emissions from the firing of natural gas in this source (ID No. ES-6).

2. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES
   a. Emissions of sulfur dioxide from this source (ID No. ES-6) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

      Testing [15A NCAC 02Q .0508(f)]
      b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 D.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

      Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]
      c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from natural gas for this source (ID No. ES-6).

3. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS
   a. Visible emissions from this source (ID No. ES-6) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

      Testing [15A NCAC 02Q .0508(f)]
      b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 D.3.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

      Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]
      c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of natural gas in this source (ID No. ES-6).

4. 15A NCAC 02D .0524: NEW SOURCE PERFORMANCE STANDARDS
   a. The Permittee shall comply with all applicable provisions, including the notification, testing, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 02D .0524
5. 15A NCAC 02D .1407: BOILERS AND INDIRECT PROCESS HEATERS

a. Facilities with boilers with maximum heat input rate of less than or equal to 50 million Btu per hour shall comply with the annual tune-up requirements of 15A NCAC 02D .1414. The Permittee shall maintain records of all tune-ups performed for each source according to 15A NCAC 02D .1404.

b. If emission testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 D.5.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1407.

c. When a tune-up to a boiler or indirect-fired process heater is required for compliance with this Section, the owner or operator shall at least annually (on or by December 31st of each calendar year) and according to the manufacturer's recommendations:
   i. inspect each burner and clean or replace any component of the burner as required;
   ii. inspect the flame pattern and make any adjustments to the burner, or burners, necessary to optimize the flame pattern to minimize total emissions of NOx and carbon monoxide;
   iii. inspect the combustion control system to ensure proper operation and correct calibration of components that control the air to fuel ratio and adjust components to meet the manufacturer’s established operating parameters; and
   iv. inspect any other component of the boilers and make adjustments or repairs as necessary to improve combustion efficiency. The Permittee shall perform the tune-up according to a unit specific protocol approved by the Director. The Director (or designee) shall approve the protocol if it meets the requirements of this Rule. The protocol shall be submitted to the Regional Office for approval.

   If tune-ups and inspections are not conducted as required, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .1407.

d. The Permittee shall maintain records of tune-ups required by Section 2.1 D.5.d, above. The following information shall be included for each source:
   i. identification of the source;
   ii. the date and time the tune-up started and ended;
   iii. the person responsible for performing the tune-up; and
   iv. for boilers the checklist for inspection of the burner, flame pattern, combustion control system, and all other components of the boiler identified in the protocol, noting any repairs or replacements made;
   v. any stack gas analyses performed after the completion of all adjustments to show that the operating parameters of the boiler, have been optimized with respect to fuel consumption and output; at a minimum these parameters shall be within the range established by the equipment manufacturer to ensure that the emission limitation for nitrogen oxides has not been exceeded; and
   vi. any other information requested by the Director (or designee) to show that the boiler is being operated and maintained in a manner to minimize the emissions of nitrogen oxides.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1407 if these records are not maintained.

e. The results of the monitoring activities given in Section 2.1 D.5.d above shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each annual tune-up and inspection along with any corrective actions taken; and
iii. the results of any corrective actions performed. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1407 if these records are not maintained.

**Reporting** [15A NCAC 02Q .0508(f)]

f. The Permittee shall submit a summary report postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

### 6. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

**Applicability** [40 CFR 63.7485, 40 CFR 63.7490(d), 63.7499(l)]

a. For the existing boiler with a heat input capacity equal to or greater than 10 million Btu per hour and designed to burn "gas 1" fuels (ID No. ES -6), the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 “Maximum Achievable Control Technology” (MACT) as promulgated in 40 CFR Part 63, Subpart DDDDD, “National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters” and Subpart A “General Provisions”.

**Definitions and Nomenclature** [40 CFR 63.7575]

b. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.7575 shall apply.

**40 CFR Part 63 Subpart A General Provisions** [40 CFR 63.7565]

c. The Permittee shall comply with the requirements of 40 CFR 63 Subpart A General Provisions according to the applicability of Subpart A to such sources as identified in Table 10 to 40 CFR Part 63, Subpart DDDDD.

**Compliance Date** [40 CFR 63. 7510(e), 63.56(b)]

d. The Permittee shall complete the initial tune up and the one-time energy assessment no later than May 20, 2019.

**Notifications** [40 CFR 63.7530(e),(f) and .7545(e)]

e. The Permittee submitted the initial Notification of Compliance Status on March 16, 2016.

**General Compliance Requirements** [40 CFR 63.7505(a), 63.7500(f)]

f. The Permittee shall be in compliance with the work practice standards in this subpart. These standards apply at all times the affected unit is operating.

**Work Practice Standards** [15A NCAC 02Q .0508(f)]

g. The Permittee shall conduct a tune-up of the source annually as specified below.

i. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled or unscheduled unit shutdown;

ii. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;

iii. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown);

iv. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject; and

v. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.

[40 CFR 63.7500(a), (e), 63.7540(a)(10)]

h. Each annual tune-up shall be conducted no more than 13 months after the previous tune-up. [40 CFR 63.7515(d)]

i. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup. [40 CFR 63.7540(a)(13), 63.7515(g)]

j. At all times, you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results,
review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.7500(a)(3)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in Sections 2.1 D.6.c through j are not met.

**Energy Assessment Requirements** [15A NCAC 02Q .0508(f)]

k. The Permittee completed the one-time energy assessment on October 5, 2015.

**Recordkeeping Requirements** [15A NCAC 02Q .0508(f), 40 CFR 63.7555]

l. The Permittee shall keep the following:
   
i. A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status, or semiannual compliance report that has been submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv). [40 CFR 63.7555(a)(1)]
   
ii. Maintain on-site and submit, if requested by the Administrator, an annual report containing the information in paragraphs 1. through 3., below:
      1. The concentrations of carbon monoxide in the effluent stream in parts per million by volume, and oxygen in volume percent, measured before and after the adjustments of the source;  
      2. A description of any corrective actions taken as a part of the combustion adjustment; and  
      3. The type and amount of fuel used over the 12 months prior to the annual adjustment, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.  
[40 CFR 63.7540(a)(10)(vi)]
   
iii. The associated records for conditions f. through l. including the occurrence and duration of each malfunction of operation (i.e., process equipment) or the required air pollution control and monitoring equipment. [40 CFR 63.10(b)(2)(ii)]

m. The Permittee shall:
   
i. maintain records in a form suitable and readily available for expeditious review;  
ii. keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record; and  
iii. keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The Permittee can keep the records offsite for the remaining 3 years.  
[40 CFR 63.7560, 63.10(b)(1)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if records are not maintained as described in Sections 2.1 D.6.1 through m.

**Reporting Requirements** [15A NCAC 02Q .0508(f)]

n. The Permittee shall submit compliance reports to the DAQ on an annual basis. The Permittee shall submit the compliance report postmarked on or before January 30 of each calendar year for the preceding 12-month period. The first report shall be postmarked on or before January 30, 2019. This report must also be submitted electronically through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due the report the Permittee submit the report to the at the appropriate address listed in 40 CFR 63.13. [40 CFR 63.7550(b), 63.7550(h)(3)]

o. The compliance report must contain the following information:
   
i. Company name and address;  
ii. Process unit information, emissions limitations, and operating parameter limitations;  
iii. Date of report and beginning and ending dates of the reporting period;  
iv. The total operating time during the reporting period;  
v. If there are no deviations from the requirements of the work practice requirements in condition g. above, a statement that there were no deviations from the work practice standards during the reporting period; and  
vi. Include the date of the most recent tune-up for each unit required according to condition g. Include the date of the most recent burner inspection if it was not done as scheduled and was delayed until the next scheduled or unscheduled unit shutdown.  
[40 CFR 63.7550(a) and (c), Table 9]

p. If you have a deviation from a work practice standard during the reporting period, the report must contain the following information: [40 CFR 63.7550(a) and (d), 63.7540(b), Table 9]
   
i. A description of the deviation and which emission limit or operating limit from which you deviated; and  
ii. Information on the number, duration, and cause of deviations (including unknown cause), as applicable, and the corrective action taken.
E. One natural gas-fired process heater (ID No. ES-8)

The following table provides a summary of limits and standards for the emission source(s) described above:

<table>
<thead>
<tr>
<th>Regulated Pollutant</th>
<th>Limits/Standards</th>
<th>Applicable Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particulate matter</td>
<td>0.50 pound per million Btu heat input</td>
<td>15A NCAC 02D .0503</td>
</tr>
<tr>
<td>Sulfur dioxide</td>
<td>2.3 pounds per million Btu heat input</td>
<td>15A NCAC 02D .0516</td>
</tr>
<tr>
<td>Visible emissions</td>
<td>20 percent opacity</td>
<td>15A NCAC 02D .0521</td>
</tr>
<tr>
<td>Hazardous Air Pollutants</td>
<td>40 CFR Part 63 Subpart DDDDD - NESHAP for Boilers and Process Heaters</td>
<td>15A NCAC 02D .1111</td>
</tr>
</tbody>
</table>

1. 15A NCAC 02D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS
   a. Emissions of particulate matter from the combustion of natural gas that are discharged from this source (ID No. ES-8) into the atmosphere shall not exceed 0.50 pounds per million Btu heat input.
      
      **Testing** [15A NCAC 02Q .0508(f)]
      b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 E.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503.
      
      **Monitoring/Recordkeeping/Reporting** [15A NCAC 02Q .0508(f)]
      c. No monitoring/recordkeeping/reporting is required for particulate emissions from the firing of natural gas in this source (ID No. ES-8).

2. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES
   a. Emissions of sulfur dioxide from this source (ID No. ES-8) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.
      
      **Testing** [15A NCAC 02Q .0508(f)]
      b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 E.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.
      
      **Monitoring/Recordkeeping/Reporting** [15A NCAC 02Q .0508(f)]
      c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from natural gas for this source (ID No. ES-8).

3. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS
   a. Visible emissions from this source (ID No. ES-8) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.
      
      **Testing** [15A NCAC 02Q .0508(f)]
      b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 E.3.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.
      
      **Monitoring/Recordkeeping/Reporting** [15A NCAC 02Q .0508(f)]
      c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of natural gas in this source (ID No. ES-8).

4. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY
   
   **Applicability** [40 CFR 63.7485, .7490(d), .7499(l)]
   a. For the existing boiler with a heat input capacity of less than or equal to 5 million Btu per hour and designed to burn "gas 1" fuels (ID No. ES-8), the Permittee shall comply with all applicable provisions, including the monitoring,

**Definitions and Nomenclature** [40 CFR 63.7575]

b. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.7575 shall apply.

**40 CFR Part 63 Subpart A General Provisions** [40 CFR 63.7565]

c. The Permittee shall comply with the requirements of 40 CFR 63 Subpart A General Provisions according to the applicability of Subpart A to such sources as identified in Table 10 to 40 CFR Part 63, Subpart DDDDD.

**Compliance Date** [40 CFR 63.7510(e), 63.56(b)]

d. The Permittee shall complete the initial tune up and the one-time energy assessment no later than May 20, 2019.

**Notifications** [40 CFR 63.7530(e),(f) and .7545(e)]

e. The Permittee submitted the initial Notification of Compliance Status on March 16, 2016.

**General Compliance Requirements** [40 CFR 63.7505(a), 63.7500(f)]

f. The Permittee shall be in compliance with the work practice standards in this subpart. These standards apply at all times the affected unit is operating.

**Work Practice Standards** [15A NCAC 02Q .0508(f)]

g. The Permittee shall conduct a tune-up of the boiler every five years as specified below.

i. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled or unscheduled unit shutdown, but the burner must be inspected at least once every 72 months)

ii. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;

iii. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown)

iv. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject.

v. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.

h. Each 5-year tune-up shall be conducted no more than 61 months after the previous tune-up. [40 CFR 63.7515(d)]

i. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup. [40 CFR 63.7540(a)(13), 63.7515(g)]

j. At all times, you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.7500(a)(3)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in Sections 2.1 E.4.f through j above are not met.

**Energy Assessment Requirements** [15A NCAC 02Q .0508(f)]

k. The Permittee completed the required one-time energy assessment on October 5, 2015

**Recordkeeping Requirements** [15A NCAC 02Q .0508(f), 40 CFR 63.7555]

l. The Permittee shall keep the following:

i. A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status, or semiannual compliance report that has been submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv). [40 CFR 63.7555(a)(1)]
ii. Maintain on-site and submit, if requested by the Administrator, an annual report containing the information in Sections 2.1 E.4.i.ii.1 through 3, below:
   1. The concentrations of carbon monoxide in the effluent stream in parts per million by volume, and oxygen in volume percent, measured before and after the adjustments of the source;
   2. A description of any corrective actions taken as a part of the combustion adjustment; and
   3. The type and amount of fuel used over the 12 months prior to the annual adjustment, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.
   [40 CFR 63.7540(a)(10)(vi)]

iii. The associated records for conditions f. through l. including the occurrence and duration of each malfunction of operation (i.e., process equipment) or the required air pollution control and monitoring equipment. [40 CFR 63.10(b)(2)(ii)]

m. The Permittee shall:
   i. maintain records in a form suitable and readily available for expeditious review;
   ii. keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record; and
   iii. keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The Permittee can keep the records offsite for the remaining 3 years.
   [40 CFR 63.7560, 63.10(b)(1)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if records are not maintained as described in Sections 2.1 E.4.i through m.

**Reporting Requirements** [15A NCAC 02Q .0508(f)]

n. The Permittee shall submit compliance reports to the DAQ on a 5-year basis. The first report shall cover the period beginning on the compliance date specified in condition d. and ending on the earliest December 31st following a complete 5-year period. Subsequent 5-year reports shall cover the periods from January 1 to December 31. The Permittee shall submit the compliance reports postmarked on or before January 31. This report must also be submitted electronically through the EPA’s Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due the report the Permittee submit the report to the at the appropriate address listed in 40 CFR 63.13. [40 CFR 63.7550(a), (b), (h)(3)]

o. The compliance report must contain the following information:
   i. Company name and address;
   ii. Process unit information, emissions limitations, and operating parameter limitations;
   iii. Date of report and beginning and ending dates of the reporting period;
   iv. The total operating time during the reporting period;
   v. If there are no deviations from the requirements of the work practice requirements in condition g. above, a statement that there were no deviations from the work practice standards during the reporting period; and
   vi. Include the date of the most recent tune-up for each unit required according to condition g. Include the date of the most recent burner inspection if it was not done as scheduled and was delayed until the next scheduled or unscheduled unit shutdown.
   [40 CFR 63.7550(a) and (c), Table 9]

p. If there is a deviation from a work practice standard during the reporting period, the report must contain the following information:
   i. A description of the deviation and which emission limit or operating limit from which you deviated; and
   ii. Information on the number, duration, and cause of deviations (including unknown cause), as applicable, and the corrective action taken.
   [40 CFR 63.7550(a) and (d), 63.7540(b), Table 9]
2.2- Phase II Acid Rain Permit Requirements

ORIS code: 7826
Effective Date: October 22, 2018

1. Statement of Basis

Statutory and Regulatory Authorities: In accordance with the provisions of Article 21B of Chapter 143, General Statutes of North Carolina as amended and Titles IV and V of the Clean Air Act, the Department of Environment and Natural Resources, Division of Air Quality issues this permit pursuant to Title 15A North Carolina Administrative Codes, Subchapter 02Q.0400 and 02Q.0500, and other applicable Laws.

2. SO₂ Allowance Allocations and NOₓ Requirements for each affected unit

<table>
<thead>
<tr>
<th>Source</th>
<th>Pollutant</th>
<th>Emission Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 1</td>
<td>SO₂</td>
<td>SO₂ allowances are not allocated by U.S. EPA for new units under 40 CFR Part 72.</td>
</tr>
<tr>
<td>Unit 2</td>
<td>NOₓ</td>
<td>Does not apply for combustion turbine units.</td>
</tr>
</tbody>
</table>

3. Comments, Notes and Justifications

None.

4. Phase II Permit Application (attached)

The Phase II Permit Application submitted for this facility, as approved by the Division of Air Quality, is part of this permit. The owners and operators of these Phase II acid rain sources must comply with the standard requirements and special provisions set forth in the following attached application:

Acid Rain Permit Application signed May 31, 2018

2.3- Cross State Air Pollution Rule (CSAPR) Requirements

For the combustion turbines (ID Nos. Unit 1 through 5), the Permittee shall comply with all applicable requirements of 40 CFR Part 97, Subpart AAAAA "TR NOx Annual Trading Program" and Subpart CCCCC "TR SO₂ Group 1 Trading Program".
SECTION 3 - Insignificant Activities per 15A NCAC 02Q .0503(8)

<table>
<thead>
<tr>
<th>Emission Source I.D. No.</th>
<th>Emission Source Description¹,²</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-ST1</td>
<td>Six lube oil reservoirs (five 6,500 gallon capacity tanks and one 5,283 gallon capacity tank)</td>
</tr>
<tr>
<td>I-ST2</td>
<td>Four false start drain tanks (500 gallon capacity, each)</td>
</tr>
<tr>
<td>I-ST3</td>
<td>Five CT wash tanks (4,000 gallon capacity, each)</td>
</tr>
<tr>
<td>I-ST4</td>
<td>Two 19.5 % aqueous ammonia tanks (17,110 gallon capacity, each)</td>
</tr>
<tr>
<td>I-ST5</td>
<td>One 6,000 gallon sodium hypochlorite (bleach) tank</td>
</tr>
<tr>
<td>I-ST6</td>
<td>One 6,000 gallon sulfuric acid tank</td>
</tr>
</tbody>
</table>

¹ Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement (Federal or State) or that the Permittee is exempted from demonstrating compliance with any applicable requirement.

² When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 02D .1100 “Control of Toxic Air Pollutants” or 02Q .0711 “Emission Rates Requiring a Permit.”
SECTION 4 - GENERAL CONDITIONS (version 6.0, 01/07/2022)

This section describes terms and conditions applicable to this Title V facility.

A. General Provisions [NCGS 143-215 and 15A NCAC 02Q .0508(i)(16)]
   1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 02D and 02Q.
   2. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to NCGS 143-215.114A and 143-215.114B, including assessment of civil and/or criminal penalties. Any unauthorized deviation from the conditions of this permit may constitute grounds for revocation and/or enforcement action by the DAQ.
   3. This permit is not a waiver of or approval of any other Department permits that may be required for other aspects of the facility which are not addressed in this permit.
   4. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted facility, or from penalties therefore, nor does it allow the Permittee to cause pollution in contravention of state laws or rules, unless specifically authorized by an order from the North Carolina Environmental Management Commission.
   5. Except as identified as state-only requirements in this permit, all terms and conditions contained herein shall be enforceable by the DAQ, the EPA, and citizens of the United States as defined in the Federal Clean Air Act.
   6. Any stationary source of air pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the DAQ, unless the source is exempted by rule. The DAQ may issue a permit only after it receives reasonable assurance that the installation will not cause air pollution in violation of any of the applicable requirements. A permitted installation may only be operated, maintained, constructed, expanded, or modified in a manner that is consistent with the terms of this permit.

B. Permit Availability [15A NCAC 02Q .0507(k) and .0508(i)(9)(B)]
   The Permittee shall have available at the facility a copy of this permit and shall retain for the duration of the permit term one complete copy of the application(s) and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of Department of Environmental Quality upon request.

C. Severability Clause [15A NCAC 02Q .0508(i)(2)]
   In the event of an administrative challenge to a final and binding permit in which a condition is held to be invalid, the provisions in this permit are severable so that all requirements contained in the permit, except those held to be invalid, shall remain valid and must be complied with.

D. Submissions [15A NCAC 02Q .0507(e) and 02Q .0508(i)(16)]
   Except as otherwise specified herein, two copies of all documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required by this permit shall be submitted to the appropriate Regional Office. Refer to the Regional Office address on the cover page of this permit. For continuous emissions monitoring systems (CEMS) reports, continuous opacity monitoring systems (COMS) reports, quality assurance (QA)/quality control (QC) reports, acid rain CEM certification reports, and NOx budget CEM certification reports, one copy shall be sent to the appropriate Regional Office and one copy shall be sent to:

   Supervisor, Stationary Source Compliance
   North Carolina Division of Air Quality
   1641 Mail Service Center
   Raleigh, NC 27699-1641

   All submittals shall include the facility name and Facility ID number (refer to the cover page of this permit).

E. Duty to Comply [15A NCAC 02Q .0508(i)(3)]
   The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition except conditions identified as state-only requirements constitutes a violation of the Federal Clean Air Act. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.
F. **Circumvention** - STATE ENFORCEABLE ONLY
The facility shall be properly operated and maintained at all times in a manner that will effect an overall reduction in air pollution. Unless otherwise specified by this permit, no emission source may be operated without the concurrent operation of its associated air pollution control device(s) and appurtenances.

G. **Title V Permit Modifications**
1. Administrative Permit Amendments [15A NCAC 02Q .0514]
The Permittee shall submit an application for an administrative permit amendment in accordance with 15A NCAC 02Q .0514.
2. Transfer in Ownership or Operation and Application Submittal Content [15A NCAC 02Q .0524 and 02Q .0505]
The Permittee shall submit an application for an ownership change in accordance with 15A NCAC 02Q.0524 and 02Q .0505.
3. Minor Permit Modifications [15A NCAC 02Q .0515]
The Permittee shall submit an application for a minor permit modification in accordance with 15A NCAC 02Q .0515.
4. Significant Permit Modifications [15A NCAC 02Q .0516]
The Permittee shall submit an application for a significant permit modification in accordance with 15A NCAC 02Q .0516.
5. Reopening for Cause [15A NCAC 02Q .0517]
The Permittee shall submit an application for reopening for cause in accordance with 15A NCAC 02Q .0517.

H. **Changes Not Requiring Permit Modifications**
1. Reporting Requirements [15A NCAC 02Q .0508(f)]
Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:
   a. changes in the information submitted in the application;
   b. changes that modify equipment or processes; or
   c. changes in the quantity or quality of materials processed.
   If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.
2. Section 502(b)(10) Changes [15A NCAC 02Q .0523(a)]
   a. “Section 502(b)(10) changes” means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
   b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
      i. the changes are not a modification under Title I of the Federal Clean Air Act;
      ii. the changes do not cause the allowable emissions under the permit to be exceeded;
      iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
      iv. the Permittee shall attach the notice to the relevant permit.
   c. The written notification shall include:
      i. a description of the change;
      ii. the date on which the change will occur;
      iii. any change in emissions; and
      iv. any permit term or condition that is no longer applicable as a result of the change.
   d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
3. Off Permit Changes [15A NCAC 02Q .0523(b)]
The Permittee may make changes in the operation or emissions without revising the permit if:
   a. the change affects only insignificant activities and the activities remain insignificant after the change; or
   b. the change is not covered under any applicable requirement.
4. Emissions Trading [15A NCAC 02Q .0523(c)]
To the extent that emissions trading is allowed under 15A NCAC 02D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 02Q .0523(c).
I.A Reporting Requirements for Excess Emissions [15A NCAC 02D .0535(f) and 02Q .0508(f)(2)]

1. “Excess Emissions” - means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections .0500, .0900, .1200, or .1400 of Subchapter 02D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 02Q .0700. (Note: Definitions of excess emissions under 02D .1110 and 02D .1111 shall apply where defined by rule.)

2. If a source is required to report excess emissions under NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or the operating permit provides for periodic (e.g., quarterly) reporting of excess emissions, reporting shall be performed as prescribed therein.

3. If the source is not subject to NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 02D .0535 as follows:
   a. Pursuant to 15A NCAC 02D .0535, if excess emissions last for more than four hours resulting from a malfunction, a breakdown of process or control equipment, or any other abnormal condition, the owner or operator shall:
      i. notify the Regional Supervisor or Director of any such occurrence by 9:00 a.m. Eastern Time of the Division's next business day of becoming aware of the occurrence and provide:
         ● name and location of the facility;
         ● nature and cause of the malfunction or breakdown;
         ● time when the malfunction or breakdown is first observed;
         ● expected duration; and
         ● estimated rate of emissions;
      ii. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished;
      and
      iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 02D .0535(f)(3).

I.B Reporting Requirements for Permit Deviations [15A NCAC 02D .0535(f) and 02Q .0508(f)(2)]

1. “Permit Deviations” - for the purposes of this condition, any action or condition not in accordance with the terms and conditions of this permit including those attributable to upset conditions as well as excess emissions as defined above lasting less than four hours.

2. Pursuant to 15A NCAC 02Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) quarterly by notifying the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 02D .0535. A written report to the Regional Supervisor shall include the probable cause of such deviation and any corrective actions or preventative actions taken. The responsible official shall certify all deviations from permit requirements.

I.C Other Requirements under 15A NCAC 02D .0535

The Permittee shall comply with all other applicable requirements contained in 15A NCAC 02D .0535, including 15A NCAC 02D .0535(c) as follows:

1. Any excess emissions that do not occur during start-up and shut-down shall be considered a violation of the appropriate rule unless the owner or operator of the sources demonstrates to the Director that the excess emissions are a result of a malfunction. The Director shall consider, along with any other pertinent information, the criteria contained in 15A NCAC 02D .0535(c)(1) through (7).

2. 15A NCAC 02D .0535(g). Excess emissions during start-up and shut-down shall be considered a violation of the appropriate rule if the owner or operator cannot demonstrate that excess emissions are unavoidable.

J. Emergency Provisions [40 CFR 70.6(g)]

The Permittee shall be subject to the following provisions with respect to emergencies:

1. An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.

3. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that include information as follows:
   a. an emergency occurred and the Permittee can identify the cause(s) of the emergency;
   b. the permitted facility was at the time being properly operated;
c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.

4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

K. **Permit Renewal** [15A NCAC 02Q .0508(e) and 02Q .0513(b)]

This 15A NCAC 02Q .0500 permit is issued for a fixed term not to exceed five years and shall expire at the end of its term. Permit expiration terminates the facility’s right to operate unless a complete 15A NCAC 02Q .0500 renewal application is submitted at least six months before the date of permit expiration. If the Permittee or applicant has complied with 15A NCAC 02Q .0512(b)(1), this 15A NCAC 02Q .0500 permit shall not expire until the renewal permit has been issued or denied. Permit expiration under 15A NCAC 02Q .0400 terminates the facility’s right to operate unless a complete 15A NCAC 02Q .0400 renewal application is submitted at least six months before the date of permit expiration for facilities subject to 15A NCAC 02Q .0400 requirements. In either of these events, all terms and conditions of these permits shall remain in effect until the renewal permits have been issued or denied.

L. **Need to Halt or Reduce Activity Not a Defense** [15A NCAC 02Q .0508(i)(4)]

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

M. **Duty to Provide Information (submittal of information)** [15A NCAC 02Q .0508(i)(9)]

1. The Permittee shall furnish to the DAQ, in a timely manner, any reasonable information that the Director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.
2. The Permittee shall furnish the DAQ copies of records required to be kept by the permit when such copies are requested by the Director. For information claimed to be confidential, the Permittee may furnish such records directly to the EPA upon request along with a claim of confidentiality.

N. **Duty to Supplement** [15A NCAC 02Q .0507(f)]

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the DAQ. The Permittee shall also provide additional information as necessary to address any requirement that becomes applicable to the facility after the date a complete permit application was submitted but prior to the release of the draft permit.

O. **Retention of Records** [15A NCAC 02Q .0508(f) and 02Q .0508(l)]

The Permittee shall retain records of all required monitoring data and supporting information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring information, and copies of all reports required by the permit. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. Any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request.

P. **Compliance Certification** [15A NCAC 02Q .0508(n)]

The Permittee shall submit to the DAQ and the EPA (Air Enforcement Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303 or through the EPA CEDRI) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all terms and conditions in the permit (including emissions limitations, standards, or work practices), except for conditions identified as being State-enforceable Only. It shall be the responsibility of the current owner to submit a compliance certification for the entire year regardless of who owned the facility during the year. The compliance certification shall comply with additional requirements as may be specified under Sections 114(a)(3) or 504(b) of the Federal Clean Air Act. The compliance certification shall specify:

1. the identification of each term or condition of the permit that is the basis of the certification;
2. the compliance status (with the terms and conditions of the permit for the period covered by the certification);
3. whether compliance was continuous or intermittent;
4. the method(s) used for determining the compliance status of the source during the certification period;
5. each deviation and take it into account in the compliance certification; and
6. as possible exceptions to compliance, any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 (CAM) occurred.

Q. **Certification by Responsible Official** [15A NCAC 02Q .0520]
A responsible official shall certify the truth, accuracy, and completeness of any application form, report, or compliance certification required by this permit. All certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

R. **Permit Shield for Applicable Requirements** [15A NCAC 02Q .0512]
1. Compliance with the terms and conditions of this permit shall be deemed compliance with applicable requirements, where such applicable requirements are included and specifically identified in the permit as of the date of permit issuance.
2. A permit shield shall not alter or affect:
   a. the power of the Commission, Secretary of the Department, or Governor under NCGS 143-215.3(a)(12), or EPA under Section 303 of the Federal Clean Air Act;
   b. the liability of an owner or operator of a facility for any violation of applicable requirements prior to the effective date of the permit or at the time of permit issuance;
   c. the applicable requirements under Title IV; or
   d. the ability of the Director or the EPA under Section 114 of the Federal Clean Air Act to obtain information to determine compliance of the facility with its permit.
3. A permit shield does not apply to any change made at a facility that does not require a permit or permit revision made under 15A NCAC 02Q .0523.
4. A permit shield does not extend to minor permit modifications made under 15A NCAC 02Q .0515.

S. **Termination, Modification, and Revocation of the Permit** [15A NCAC 02Q .0519]
The Director may terminate, modify, or revoke and reissue this permit if:
1. the information contained in the application or presented in support thereof is determined to be incorrect;
2. the conditions under which the permit or permit renewal was granted have changed;
3. violations of conditions contained in the permit have occurred;
4. the EPA requests that the permit be revoked under 40 CFR 70.7(g) or 70.8(d); or
5. the Director finds that termination, modification, or revocation and reissuance of the permit is necessary to carry out the purpose of NCGS Chapter 143, Article 21B.

T. **Insignificant Activities** [15A NCAC 02Q .0503]
Because an emission source or activity is insignificant does not mean that the emission source or activity is exempted from any applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement. The Permittee shall have available at the facility at all times and made available to an authorized representative upon request, documentation, including calculations, if necessary, to demonstrate that an emission source or activity is insignificant.

U. **Property Rights** [15A NCAC 02Q .0508(i)(8)]
This permit does not convey any property rights in either real or personal property or any exclusive privileges.

V. **Inspection and Entry** [15A NCAC 02Q .0508(l) and NCGS 143-215.3(a)(2)]
1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
   a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
   b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
   c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
   d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.
Nothing in this condition shall limit the ability of the EPA to inspect or enter the premises of the Permittee under Section 114 or other provisions of the Federal Clean Air Act.
2. No person shall refuse entry or access to any authorized representative of the DAQ who requests entry for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

W. **Annual Fee Payment** [15A NCAC 02Q .0508(i)(10)]
   1. The Permittee shall pay all fees in accordance with 15A NCAC 02Q .0200.
   2. Payment of fees may be by check or money order made payable to the N.C. Department of Environmental Quality.
   3. Annual permit fee payments shall refer to the permit number.
   4. If, within 30 days after being billed, the Permittee fails to pay an annual fee, the Director may initiate action to terminate the permit under 15A NCAC 02Q .0519.

X. **Annual Emission Inventory Requirements** [15A NCAC 02Q .0207]
   The Permittee shall report by **June 30 of each year** the actual emissions of each air pollutant listed in 15A NCAC 02Q .0207(a) from each emission source within the facility during the previous calendar year. The report shall be in or on such form as may be established by the Director. The accuracy of the report shall be certified by a responsible official of the facility.

Y. **Confidential Information** [15A NCAC 02Q .0107 and 02Q .0508(i)(9)]
   Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 02Q .0107, the Permittee may also submit a copy of all such information and claim directly to the EPA upon request. All requests for confidentiality must be in accordance with 15A NCAC 02Q .0107.

Z. **Construction and Operation Permits** [15A NCAC 02Q .0100 and .0300]
   A construction and operating permit shall be obtained by the Permittee for any proposed new or modified facility or emission source which is not exempted from having a permit prior to the beginning of construction or modification, in accordance with all applicable provisions of 15A NCAC 02Q .0100 and .0300.

AA. **Standard Application Form and Required Information** [15A NCAC 02Q .0505 and .0507]
   The Permittee shall submit applications and required information in accordance with the provisions of 15A NCAC 02Q .0505 and .0507.

BB. **Financial Responsibility and Compliance History** [15A NCAC 02Q .0507(d)(3)]
   The DAQ may require an applicant to submit a statement of financial qualifications and/or a statement of substantial compliance history.

CC. **Refrigerant Requirements (Stratospheric Ozone and Climate Protection)** [15A NCAC 02Q .0501(d)]
   1. If the Permittee has appliances or refrigeration equipment, including air conditioning equipment, which use Class I or II ozone-depleting substances such as chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40 CFR Part 82 Subpart A Appendices A and B, the Permittee shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82 Subpart F.
   2. The Permittee shall not knowingly vent or otherwise release any Class I or II substance into the environment during the repair, servicing, maintenance, or disposal of any such device except as provided in 40 CFR Part 82 Subpart F.
   3. The Permittee shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the EPA or its designate as required.

DD. **Prevention of Accidental Releases - Section 112(r)** [15A NCAC 02Q .0508(h)]
   If the Permittee is required to develop and register a Risk Management Plan with EPA pursuant to Section 112(r) of the Clean Air Act, then the Permittee is required to register this plan in accordance with 40 CFR Part 68.

EE. **National Emission Standards Asbestos – 40 CFR Part 61, Subpart M** [15A NCAC 02D .1110]
   The Permittee shall comply with all applicable standards for demolition and renovation activities pursuant to the requirements of 40 CFR Part 61, Subpart M. The permittee shall not be required to obtain a modification of this permit in order to perform the referenced activities.
FF. **Title IV Allowances** [15A NCAC 02Q .0508(i)(1)]
This permit does not limit the number of Title IV allowances held by the Permittee, but the Permittee may not use allowances as a defense to noncompliance with any other applicable requirement. The Permittee’s emissions may not exceed any allowances that the facility lawfully holds under Title IV of the Federal Clean Air Act.

GG. **Air Pollution Emergency Episode** [15A NCAC 02D .0300]
Should the Director of the DAQ declare an Air Pollution Emergency Episode, the Permittee will be required to operate in accordance with the Permittee’s previously approved Emission Reduction Plan or, in the absence of an approved plan, with the appropriate requirements specified in 15A NCAC 02D .0300.

HH. **Registration of Air Pollution Sources** [15A NCAC 02D .0202]
The Director of the DAQ may require the Permittee to register a source of air pollution. If the Permittee is required to register a source of air pollution, this registration and required information will be in accordance with 15A NCAC 02D .0202(b).

II. **Ambient Air Quality Standards** [15A NCAC 02D .0501(c)]
In addition to any control or manner of operation necessary to meet emission standards specified in this permit, any source of air pollution shall be operated with such control or in such manner that the source shall not cause the ambient air quality standards in 15A NCAC 02D .0400 to be exceeded at any point beyond the premises on which the source is located. When controls more stringent than named in the applicable emission standards in this permit are required to prevent violation of the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.

JJ. **General Emissions Testing and Reporting Requirements** [15A NCAC 02Q .0508(i)(16)]
Emission compliance testing shall be by the procedures of Section .2600, except as may be otherwise required in Rules .0524, .1110, or .1111 of Subchapter 02D. If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance for emission sources subject to Rules .0524, .1110, or .1111, the Permittee shall provide and submit all notifications, conduct all testing, and submit all test reports in accordance with the requirements of 15A NCAC 02D .0524, .1110, or .1111, as applicable. Otherwise, if emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 02D .2600 and follow the procedures outlined below:

1. The owner or operator of the source shall arrange for air emission testing protocols to be provided to the Director prior to air pollution testing. Testing protocols are not required to be pre-approved by the Director prior to air pollution testing. The Director shall review air emission testing protocols for pre-approval prior to testing if requested by the owner or operator at least 45 days before conducting the test.
2. Any person proposing to conduct an emissions test to demonstrate compliance with an applicable standard shall notify the Director at least 15 days before beginning the test so that the Director may at his option observe the test.
3. The owner or operator of the source shall arrange for controlling and measuring the production rates during the period of air testing. The owner or operator of the source shall ensure that the equipment or process being tested is operated at the production rate that best fulfills the purpose of the test. The individual conducting the emission test shall describe the procedures used to obtain accurate process data and include in the test report the average production rates determined during each testing period.
4. Two copies of the final air emission test report shall be submitted to the Director not later than 30 days after sample collection unless otherwise specified in the specific conditions. The owner or operator may request an extension to submit the final test report. The Director shall approve an extension request if he finds that the extension request is a result of actions beyond the control of the owner or operator.
   a. The Director shall make the final determination regarding any testing procedure deviation and the validity of the compliance test. The Director may:
      i. Allow deviations from a method specified under a rule in this Section if the owner or operator of the source being tested demonstrates to the satisfaction of the Director that the specified method is inappropriate for the source being tested.
      ii. Prescribe alternate test procedures on an individual basis when he finds that the alternative method is necessary to secure more reliable test data.
      iii. Prescribe or approve methods on an individual basis for sources or pollutants for which no test method is specified in 15A NCAC 02D .2600 if the methods can be demonstrated to determine compliance of permitted emission sources or pollutants.
   b. The Director may authorize the DAQ to conduct independent tests of any source subject to a rule in 15A NCAC 02D to determine the compliance status of that source or to verify any test data submitted relating to that source.
Any test conducted by the Division of Air Quality using the appropriate testing procedures described in 15A NCAC 02D .2600 has precedence over all other tests.

KK. Reopening for Cause [15A NCAC 02Q .0517]
   1. A permit shall be reopened and revised under the following circumstances:
      a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
      b. additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
      c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
      d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
   2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 02Q .0513(c).
   3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 02Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 02Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.
   4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
   5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

LL. Reporting Requirements for Non-Operating Equipment [15A NCAC 02Q .0508(i)(16)]
   The Permittee shall maintain a record of operation for permitted equipment noting whenever the equipment is taken from and placed into operation. When permitted equipment is not in operation, the requirements for testing, monitoring, and recordkeeping are suspended until operation resumes.

MM. Fugitive Dust Control Requirement [15A NCAC 02D .0540]
   As required by 15A NCAC 02D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 02D .0540(f).

"Fugitive dust emissions" means particulate matter from process operations that does not pass through a process stack or vent and that is generated within plant property boundaries from activities such as: unloading and loading areas, process areas, stockpiles, stock pile working, plant parking lots, and plant roads (including access roads and haul roads).

NN. Specific Permit Modifications [15A NCAC 02Q .0501 and .0523]
   1. For modifications made pursuant to 15A NCAC 02Q .0501(b)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.
   2. For modifications made pursuant to 15A NCAC 02Q .0501(c)(2), the Permittee shall not begin operation of the air emission source(s) and associated air pollution control device(s) until a Title V Air Quality Permit Application is filed and a construction and operation permit following the procedures of Section .0500 (except for Rule .0504 of this Section) is obtained.
   3. For modifications made pursuant to 502(b)(10), in accordance with 15A NCAC 02Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (Air Permitting Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303 or through the EPA CEDRI) in writing at least seven days before the change is made.
      a. The written notification shall include:
         i. a description of the change at the facility;
         ii. the date on which the change will occur;
         iii. any change in emissions; and
         iv. any permit term or condition that is no longer applicable as a result of the change.
b. In addition to this notification requirement, with the next significant modification or Air Quality Permit renewal, the Permittee shall submit a page "E5" of the application forms signed by the responsible official verifying that the application for the 502(b)(10) change/modification, is true, accurate, and complete. Further note that modifications made pursuant to 502(b)(10) do not relieve the Permittee from satisfying preconstruction requirements.

OO. Third Party Participation and EPA Review [15A NCAC 02Q .0521, .0522 and .0525(7)]
For permits modifications subject to 45-day review by the federal EPA, EPA’s decision to not object to the proposed permit is considered final and binding on the EPA and absent a third party petition, the failure to object is the end of EPA's decision-making process with respect to the revisions to the permit. The time period available to submit a public petition pursuant to 15A NCAC 02Q .0518 begins at the end of the 45-day EPA review period.