



PAT MCCRORY  
*Governor*

DONALD R. VAN DER VAART  
*Secretary*

SHEILA C. HOLMAN  
*Director*

January ##, 2017

Mr. Kenny Jacobs  
Manager, EH&S  
Transcontinental Gas Pipe Line Co., LLC – Station 160  
P.O. Box 1396  
Houston, TX 77251

SUBJECT: Air Quality Permit No. 09113T12  
Facility ID: 7900131  
Transcontinental Gas Pipe Line Co., LLC-Station 160  
Reidsville, North Carolina  
Rockingham County  
Fee Class: Title V  
PSD Status: Major

Dear Mr. Jacobs:

In accordance with your completed Air Quality Permit Application for Renewal of your Title V permit received June 24, 2015 and your Part II 15A NCAC 02Q .0501(c)(2) modification received October 21, 2014, we are forwarding herewith Air Quality Permit No. 09113T12 to Transcontinental Gas Pipe Line Co., LLC – Station 160, 4300 NC 65, Reidsville, Rockingham County, North Carolina 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 listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3. 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 conditions 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 request a formal adjudicatory hearing within 30 days following receipt of this permit, identifying the specific issues to be contested.

This hearing request must be in the form of a written petition, conforming to NCGS (North Carolina General Statutes) 150B-23, and filed with both the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714 and the Division of Air Quality, Permitting Section, 1641 Mail Service Center, Raleigh, North Carolina 27699-1641. The form for requesting a formal adjudicatory hearing may be obtained upon request from the Office of Administrative Hearings. Please note that this permit will be stayed in its entirety upon receipt of the request for a hearing. Unless a request for a hearing is made pursuant to NCGS 150B-23, this Air Quality Permit shall be final and binding 30 days after issuance.

You may request modification of your Air Quality Permit through informal means pursuant to NCGS 150B-22. This request must be submitted in writing to the Director and must identify the specific provisions or issues for which the modification is sought. Please note that this Air Quality Permit will become final and binding regardless of a request for informal modification unless a request for a hearing is also made under NCGS 150B-23.

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to the 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 143-215.108A and may subject the Permittee to civil or criminal penalties as described in NCGS 143-215.114A and 143-215.114B.

Increment tracking does not apply to this Title V renewal. Although Rockingham County's minor source baseline for PM<sub>10</sub>, NO<sub>x</sub>, and SO<sub>2</sub> has been triggered; there are no emissions increases or decreases associated with this change.

This Air Quality Permit shall be effective from January ##, 2017 until December 31, 2021, 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 Richard R. Simpson, at (919) 707-8476 or [Richard.Simpson@ncdenr.gov](mailto:Richard.Simpson@ncdenr.gov).

Sincerely yours,

William D. Willets, P.E., Chief, Permitting Section  
Division of Air Quality, NCDEQ

Enclosure

cc: Heather Ceron - EPA Region IV  
Lisa Edwards, Supervisor, Winston-Salem Regional Office  
Central Files  
Connie Horne (cover letter only)

**Insignificant Activities under 15A NCAC 02Q .0503(8)**

<b>Emission Source ID</b>	<b>Emission Source Description</b>
<b>I-0002</b>	One engine oil day tank (“B” Building; 215 gallon capacity)
<b>I-0005</b>	#11 hydraulic oil tank (47 gallon capacity)
<b>I-0006</b>	#12 hydraulic oil tank (47 gallon capacity)
<b>I-0007</b>	#13 hydraulic oil tank (47 gallon capacity)
<b>I-0008</b>	#14 hydraulic oil tank (47 gallon capacity)
<b>I-0009</b>	#15 hydraulic oil tank (47 gallon capacity)
<b>I-0021</b>	Air compressor coolant tank (12 gallon capacity)
<b>I-0027</b>	#11 M.U.J.W. Surge Tank (291 gallon capacity)
<b>I-0028</b>	#12 M.U.J.W. Surge Tank (291 gallon capacity)
<b>I-0029</b>	#13 M.U.J.W. Surge Tank (291 gallon capacity)
<b>I-0030</b>	#14 M.U.J.W. Surge Tank (291 gallon capacity)
<b>I-0031</b>	#15 M.U.J.W. Surge Tank (581 gallon capacity)
<b>I-0053</b>	Engine crankcase and turbocharger vents
<b>I-ES-GS16</b>	Gas starter
<b>I-T-0001</b>	Oil Sump “B” Building (Fill/Drain; 1720 gallon capacity)
<b>I-T-0010</b>	L.O.C.W./J.W. Transfer Tank #1 (6900 gallon capacity)
<b>I-T-0014</b>	Natural gas condensate tank (4200 gallon capacity)
<b>I-T-0026</b>	#1-10 M.U.J.W. Surge Tank (13,513 gallon capacity)
<b>I-T-0048</b>	Lubricating oil tank (11,628 gallon capacity)
<b>I-T-0053</b>	Make up/ethylene glycol/water tank (4316 gallon capacity)
<b>I-T-0054</b>	Antifreeze/ethylene glycol/water tank (2075 gallon capacity)
<b>I-T-0057</b>	Used oil tank (3133 gallon capacity)
<b>I-T-0058</b>	#1-10 M.U.L.O.C.W. Surge Tank (2716 gallon capacity)
<b>I-T-0059</b>	#11 L.O.C.W. Surge Tank (407 gallon capacity)
<b>I-T-0060</b>	#12 L.O.C.W. Surge Tank (407 gallon capacity)
<b>I-T-0061</b>	#13 L.O.C.W. Surge Tank (407 gallon capacity)
<b>I-T-0062</b>	#14 L.O.C.W. Surge Tank (514 gallon capacity)
<b>I-T-0063</b>	#15 L.O.C.W. Surge Tank (581 gallon capacity)
<b>I-T-0064</b>	#11-15 M/U L.O.C.W and JW Transfer Tank #2 (6900 gallon capacity)
<b>I-T-0065</b>	Turbine Oil Tank (2078 gallon capacity)
<b>I-T-0066</b>	Turbine Oil Day Tank (294 gallon capacity)
<b>I-T-0067</b>	Air Compressor Drain and Fill Tank (98 gallon capacity)
<b>I-T-0068</b>	Diesel Tank (500 gallon capacity)
<b>I-T-0069</b>	Used Oil Tank (from oil change rack; 344 gallon capacity)
<b>I-ES-FUGS</b>	Piping components fugitive emissions
<b>I-0070</b>	Oil sump (“A” Building; 1050 gallon capacity)

1. Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement or that the owner or operator of the source 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”.
3. For additional information regarding the applicability of MACT or GACT see the DAQ page titled “Specific Permit Conditions Regulatory Guide.” The link to this site is as follows: <http://deq.nc.gov/about/divisions/air-quality/air-quality-permits/specific-permit-conditions-regulatory-guide>.

**ATTACHMENT 2 to cover letter of Permit No. 09113T12  
Transcontinental Gas Pipe Line Co. – Station 160**

The following table lists all modifications associated with this permit action:

<b>Page(s)</b>	<b>Section</b>	<b>Description of Change(s)</b>
Cover and throughout	Throughout	Updated all tables, dates, and permit revision numbers.
Throughout	Throughout	Corrected the regulatory reference from 2D and 2Q to 02D and 02Q.
Attachment 1	Insignificant Activities List	Since the I-0022 is no longer at the facility, removed air compressor coolant tank (18 gallon capacity).
Attachment 1	Insignificant Activities List	Inserted DEQ web link information in Item No. 3 at bottom of attachment as general information.
3	Section 1	Included column for page numbers.
4	Section 1	Inserted MACT, Subpart DDDDD to Boiler ES-BLR2.
4	Section 1	Inserted at the bottom of the table language for the Part II modification submitted October 21, 2014.
4	Section 2.1.A.	In the table for nitrogen oxides, inserted reference to “See Section 2.2.A.1.”
4-12	Section 2.1.A-E.	In the table, inserted odor regulation with reference to Section 2.2.B.
5, 9, and 13	Section 2.1.(A.2.a, B.2.a., and E.3.a.)	Added “[15A NCAC 02D .0521(c)]” to the end of the referenced regulation.
10	Section 2.1.C.1.a.	Added “[15A NCAC 02D .0521(d)]” to the end of the referenced regulation.
12	Section 2.1.E.	In the table, inserted 15A NCAC 02D .1111 Boiler MACT Subpart DDDDD.
13	Section 2.1.E.4.a.	Inserted language for transition dates of CBC MACT to Boiler MACT.
13	Section 2.1.E.4.b.	Changed wording from assure to ensure.
14	Section 2.1.E.5.	Inserted language for 15A NCAC 02D .1111 Boiler MACT (40 CFR 63 Subpart DDDDD).
18	Section 2.2.A.1.d.	Changed wording from assure to ensure.
19	Section 2.2.B.	Inserted 15A NCAC 02D .1806 language for odor regulation.
19-29	General Conditions	Updated to latest version of DAQ shell version 4.0 12/17/15.



State of North Carolina  
Department of Environmental Quality  
Division of Air Quality

## AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
09113T12	09113T11	January ##, 2017	December 31, 2021

Until such time as this permit expires or is modified or revoked, the below named Permittee is permitted to construct and 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:** **Transcontinental Gas Pipe Line Co. LLC,  
– Station 160**

**Facility ID:** 7900131  
**Facility Site Location:** 4300 NC 65  
**City, County, State, Zip:** Reidsville, NC, 27320

**Mailing Address:** P.O. Box 1396  
**City, State, Zip:** Houston, TX, 77251

**Application Number:** 7900131.14A & 15A  
**Complete Application Date:** January ##, 2017

**Primary SIC Code:** 4922  
**Division of Air Quality,  
Regional Office Address:** Winston-Salem Regional Office  
450 West Hanes Mill Road, Suite 300  
Winston-Salem, NC, 27105

Permit issued this the ##<sup>th</sup> day of January, 2017

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William D. Willets, P. E., Chief, Permitting Section  
By Authority of the Environmental Management Commission

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## SECTION 1- PERMITTED EMISSION SOURCE(S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE(S) AND APPURTENANCES

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

Page No.	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
4	ES-M/L1 ES-M/L2 ES-M/L3 ES-M/L4 ES-M/L5 ES-M/L6 ES-M/L7 (MACT Subpart ZZZZ)	Seven two-stroke natural gas lean-fired internal combustion engines (each rated at 1800 maximum brake horsepower output and 14.9 million Btu per hour heat input)	NA	NA
4	ES-M/L8 ES-M/L9 (MACT Subpart ZZZZ)	Two two-stroke natural gas lean-fired internal combustion engines (each rated at 2100 maximum brake horsepower output and 14.7 million Btu per hour heat input)	NA	NA
4	ES-M/L10 (MACT Subpart ZZZZ)	One two-stroke natural gas lean-fired internal combustion engine with high pressure fuel injection system (rated at 2100 maximum brake horsepower output and 14.7 million Btu per hour heat input)	NA	NA
9	ES-M/L11 ES-M/L12 ES-M/L13 (MACT Subpart ZZZZ)	Three two-stroke natural gas lean-fired internal combustion engines (each rated at 3400 maximum brake horsepower output and 23.3 million Btu per hour heat input)	NA	NA
9	ES-M/L14 ES-M/L15 (MACT Subpart ZZZZ)	Two two-stroke natural gas lean-fired internal combustion engines (each rated at 5500 maximum brake horsepower output and 37.7 million Btu per hour heat input)	NA	NA
4	ES-AUX1* ES-AUX2* ES-AUX3* (MACT Subpart ZZZZ)	Three four-stroke natural gas rich-fired emergency internal combustion engines (each rated at 370 maximum brake horsepower output and 2.89 million Btu per hour heat input)	NA	NA
4	ES-A/C1* (MACT Subpart ZZZZ)	One four-stroke natural gas rich-fired emergency internal combustion engine (rated at 211 maximum brake horsepower output and 1.3 million Btu per hour heat input)	NA	NA
10	ES-M/L16 (NSPS Subpart GG and MACT Subpart YYYYY)	One natural gas-fired dry low NO <sub>x</sub> combustion turbine (rated at 15,000 maximum brake horsepower output and 122 million Btu per hour heat input)	NA	NA
11	ES-BDO	Natural Gas Pipeline Blowdown Operations	NA	NA

Page No.	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
12	ES-BLR2 (.1109 Case-By-Case MACT and MACT, Subpart DDDDD)	One natural gas-fired boiler (5.2 million Btu heat input)	NA	NA

\* These emissions sources (ID Nos. ES-AUX1, ES-AUX2, ES-AUX-3, and ES-A/C1) are listed as a 15A NCAC 02Q .0501(c)(2) modification. The Permittee filed a Part II Title V Air Quality Permit Application on October 21, 2014 for modification 7900131.14A.

## SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

### 2.1 - Emission Sources and Control Device(s) Specific Limitations and Conditions

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

**A. Ten two-stroke natural gas lean-fired internal combustion engines (ID Nos. ES-M/L1 through ES-M/L10)**

**Four four-stroke natural gas rich-fired emergency internal combustion engines (ID Nos. ES-AUX1 through ES-AUX3 and ES-A/C1)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	40 percent opacity	15A NCAC 02D .0521
Hazardous air pollutants	<b>(ID Nos. ES-M/L1 through ES-M/L10 only)</b> National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines No applicable requirements per 63.6590(b)(3)	15A NCAC 02D .1111 (40 CFR 63 Subpart ZZZZ)
Hazardous air pollutants	<b>(ID Nos. ES-AUX1 through ES-AUX3, and ES-A/C1)</b> National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines - See Sections 2.1 A.3.	15A NCAC 02D .1111 (40 CFR 63 Subpart ZZZZ)
Nitrogen oxides	<b>(ID No. ES-M/L9 only)</b> Seasonal emissions cap (May 1 – September 30) See Section 2.2 A.1.	15A NCAC 02D .1409
Odors	<b>State-enforceable only</b> See Section 2.2 B.1	15A NCAC 02D .1806



### 1. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from these sources (**ID Nos. ES-M/L1 through ES-M/L10, ES-AUX1 through ES-AUX3, and ES-A/C1**) 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 A.1.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 the firing of natural gas in these sources (**ID Nos. ES-M/L1 through ES-M/L10, ES-AUX1 through ES-AUX3, and ES-A/C1**).

### 2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from these sources (**ID Nos. ES-M/L1 through ES-M/L10, ES-AUX1 through ES-AUX3, and ES-A/C1**) shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 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 90 percent opacity. [15A NCAC 02D .0521(c)]

**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.2.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 these sources (**ID Nos. ES-M/L1 through ES-M/L10, ES-AUX1 through ES-AUX3, and ES-A/C1**).

### 3. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

- a. For the sources (**ID Nos. ES-AUX1 through ES-AUX3, and ES-A/C1**), the Permittee shall demonstrate compliance by **October 19, 2013** with all applicable requirements of 15A NCAC 02D .1111 "Maximum Achievable Control Technology" and 40 CFR 63 Subpart ZZZZ "National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)."
- b. The Permittee shall comply with all applicable General Provisions in accordance with Table 8 to this Subpart. [§63.6665]
- c. The Permittee shall comply with the following limitations:
  - i. Change oil and filter every 500 hours of operation or annually, whichever comes first;
  - ii. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first;
  - iii. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of this subpart, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the work practice can be delayed until the

emergency is over or the unacceptable risk under federal, state, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated.

[§63.6602, and Table 2c including Footnote 1 to the Subpart ZZZZ]

- d. The Permittee shall be in compliance with the limitations in Section 2.1 A. 3.c above, at all times. [§63.6605(a)]
- e. At all times, the Permittee shall operate and maintain the affected sources including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which 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. [§63.6605(b)]

**Monitoring** [15A NCAC 02Q .0308]

- f. The Permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop his/her own maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [§63.6625(e)]
- g. The Permittee shall install a non-resettable hour meter if one is not already installed. [§63.6625(f)]
- h. The Permittee shall have the option to utilize the oil analysis program as described in §63.6625(j) in order to extend the specified oil change requirement in Section 2.1 A.3.c above. [§63.6625(j)]
- i. The Permittee shall comply with the limitation included in Section 2.1 A.3.c above, according to methods specified in Table 6 to this Subpart. [§63.6640(a)]
- j. The Permittee shall operate each emergency stationary ICE, according to the requirements in paragraphs (f)(1) through (4) of §63.6640. In order for the engine to be considered an emergency stationary ICE under this Subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in nonemergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of §63.6640, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4) of §63.6640, the engine will not be considered an emergency engine under this Subpart and shall meet all requirements for non-emergency engines.
  - i. There is no time limit on the use of emergency stationary ICE in emergency situations.
  - ii. The Permittee may operate an emergency stationary ICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of §63.6640 for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of §63.6640 counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).
    - (A) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.
    - (B) Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see § 60.17), or other authorized entity as determined by the Reliability Coordinator,

has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

- (C) Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
- iii. Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. The 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.  
[§63.6640(f)]

**Recordkeeping** [15A NCAC 02Q .0308]

- k. The Permittee shall keep the records described in paragraphs (a)(1) through (a)(5) of §63.6655(a) as included below:
- i. A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).
  - ii. Records of the occurrence and duration of each malfunction of operation (*i.e.*, process equipment) or the air pollution control and monitoring equipment.
  - iii. Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).
  - iv. Records of all required maintenance performed on the air pollution control and monitoring equipment.
  - v. Records of actions taken during periods of malfunction to minimize emissions in accordance with § 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.  
[§63.6655(a)]
- l. The Permittee shall keep the records required in Table 6 of this Subpart to show continuous compliance with each applicable emission limitation. [§63.6655(d)]
- m. The Permittee shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that he/she operated and maintained the stationary RICE and after-treatment control device (if any) according to his/her maintenance plan. [§63.6655(e)]
- n. If the Permittee owns or operates any of the stationary RICE in paragraphs (f)(1) through (2) §63.6655, the Permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The Permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in § 63.6640(f)(2)(ii) or (iii) or § 63.6640(f)(4)(ii), the Permittee shall keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes. [§63.6655(f)]
- o. The records shall be in a form suitable and readily available for expeditious review according to §63.10(b)(1). [§63.6660(a)]
- p. As specified in §63.10(b)(1), the Permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [§63.6660(b)]
- q. The Permittee shall keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to § 63.10(b)(1). [§63.6660(c)]

**Reporting** [15A NCAC 02Q .0308]

- r. The Permittee shall report each instance in which the Permittee did not meet each applicable emission limitation in Table 2c to this Subpart. These instances are non-compliance with the emission limitations in this Subpart and shall be reported according to the requirements in §63.6650. [§63.6640(b)]

- s. The Permittee shall report all deviations including any instances of non-compliance as defined in this Subpart in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority. [§63.6650(f)]
- t. If the Permittee owns or operates an emergency stationary RICE with a site rating of more than 100 brake HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in § 63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in § 63.6640(f)(4)(ii), the Permittee shall submit an annual report according to the requirements in paragraphs (h)(1) through (3) of § 63.6650.
- i. The report must contain the following information:
- (A) Company name and address where the engine is located.
  - (B) Date of the report and beginning and ending dates of the reporting period.
  - (C) Engine site rating and model year.
  - (D) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
  - (E) Hours operated for the purposes specified in § 63.6640(f)(2)(ii) and (iii), including the date, start time, and end time for engine operation for the purposes specified in § 63.6640(f)(2)(ii) and (iii).
  - (F) Number of hours the engine is contractually obligated to be available for the purposes specified in § 63.6640(f)(2)(ii) and (iii).
  - (G) Hours spent for operation for the purpose specified in § 63.6640(f)(4)(ii), including the date, start time, and end time for engine operation for the purposes specified in § 63.6640(f)(4)(ii). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.
  - (H) If there were no deviations from the fuel requirements in § 63.6604 that apply to the engine (if any), a statement that there were no deviations from the fuel requirements during the reporting period.
  - (I) If there were deviations from the fuel requirements in § 63.6604 that apply to the engine (if any), information on the number, duration, and cause of deviations, and the corrective action taken.
- ii. The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.
- iii. The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) ( [www.epa.gov/cdx](http://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 written report must be submitted to the Administrator at the appropriate address listed in § 63.13.
- u. The Permittee shall report any failure to perform the work practice on the schedule required in Table 2c to the Subpart and specify the Federal, State or local law under which the risk was deemed unacceptable. [Footnote 1 of Table 2c to subpart]

**B. Five two-stroke natural gas lean-fired internal combustion engines (ID Nos. ES-M/L11 through ES-M/L15)**

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

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	40 percent opacity	15A NCAC 02D .0521
Hazardous air pollutants	National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines No applicable requirements per 63.6590(b)(3)	15A NCAC 02D .1111 (40 CFR 63, Subpart ZZZZ)
Nitrogen dioxide	Seasonal emissions cap ( <b>May 1 – September 30</b> ) <b>See Section 2.2 A.1.</b>	15A NCAC 02D .1409
<b>Odors</b>	<b>State-enforceable only</b> <b>See Section 2.2 B.1</b>	<b>15A NCAC 02D .1806</b>

**1. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES**

- a. Emissions of sulfur dioxide from these sources (**ID Nos. ES-M/L11 through ES-M/L15**) 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 B.1.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 the firing of natural gas in these sources (**ID Nos. ES-M/L11 through ES-M/L15**).

**2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS**

- a. Visible emissions from these sources (**ID Nos. ES-M/L11 through ES-M/L15**) shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 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 90 percent opacity. **[15A NCAC 02D .0521(c)]**

**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.2.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 these sources (**ID Nos. ES-M/L11 through ES-M/L15**).

**C. One natural gas-fired dry low NO<sub>x</sub> combustion turbine (ID No. ES-M/L16)**

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

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Nitrogen oxides	203.4 ppm at 15 percent oxygen on a dry basis	15A NCAC 02D .0524 (40 CFR 60, Subpart GG)
Sulfur dioxide	150 ppm at 15 percent oxygen on a dry basis or fuel cannot contain sulfur in excess of 0.8 percent by weight	15A NCAC 02D .0524 (40 CFR 60, Subpart GG)
Hazardous air pollutants	National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines No applicable requirements per 63.6090(b)(4)	15A NCAC 02D .1111 (40 CFR 63, Subpart YYYY)
<b>Odors</b>	<b>State-enforceable only</b> See Section 2.2 B.1	<b>15A NCAC 02D .1806</b>

**1. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS**

- a. Visible emissions from this source (**ID No. ES-M/L16**) 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. **[15A NCAC 02D .0521(d)]**

**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 .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-M/L16**).

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

- a. For the natural gas-fired combustion turbine (**ID No. ES-M/L16**), the Permittee shall comply with all applicable provisions, including the notification, testing, reporting, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 02D .0524 “New Source Performance Standards” (NSPS) as promulgated in 40 CFR 60, Subpart GG (Standards of Performance for Stationary Gas Turbines), including Subpart A “General Provisions.”
- b. The owner or operator shall not cause to be discharged into the atmosphere from the stationary gas turbine (**ID No. ES-M/L16**), any gases which contain nitrogen oxides in excess of 203.4 ppm at 15 percent oxygen on a dry basis as determined from the following equation. [40 CFR 60.332]

$$TD = 0.0150 \times 14.4/Y + F$$

Where: TD = allowable NO<sub>x</sub> emissions (percent by volume at 15 percent oxygen and on a dry basis),  
 Y = manufacturer’s rated heat rate at manufacturer’s rated load (10.62 kilojoules per watt hour) or, actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the facility. The value of Y shall not exceed 14.4 kilojoules per watt hour, and  
 F = NO<sub>x</sub> emission allowance for fuel-bound nitrogen. [40 CFR 60.332(a)(2)]

- c. The owner or operator shall not cause to be discharged into the atmosphere from the stationary gas turbine (**ID No. ES-M/L16**), any gases which contain sulfur dioxide in excess of 150 ppm at 15 percent oxygen on a dry basis [40 CFR 60.333(a)]; or burn any fuel which contains sulfur in excess of 0.8 percent by weight [40 CFR 60.333(b)].

**Testing** [40 CFR 60.335]

- d. 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 limits given in Section 2.1 C.2.b or c above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524.

**Monitoring/Recordkeeping** [40 CFR 60.334]

- e. The Permittee shall determine and record the sulfur content of the fuel being fired in this source (**ID No. ES-M/L16**) in accordance with the DAQ approved custom fuel monitoring plan; or
- f. As an alternative, the Permittee may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the gaseous fuel is demonstrated to meet the definition of natural gas in 40 CFR 60.331(u), regardless of whether an existing custom schedule approved by the administrator for subpart GG requires such monitoring. The owner or operator shall use 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 20.0 grains/100 scf or less to make the required demonstration.
- g. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if neither e. nor f. is met, or if the sulfur content exceeds the limit in Section 2.1 C.2.c above.

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

- h. The Permittee shall submit a summary report of the monitoring 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.

**D. Natural Gas Pipeline Blowdown Operations (ID No. ES-BDO)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile Organic Compounds	Less than 40 tons per year	15A NCAC 02Q .0317 (PSD Avoidance)
<b>Odors</b>	<b>State-enforceable only</b> See Section 2.2 B.1	<b>15A NCAC 02D .1806</b>

**1. 15A NCAC 02Q .0317: AVOIDANCE CONDITIONS for 15A NCAC 02D. 0530: PREVENTION OF SIGNIFICANT DETERIORATION**

- a. In order to avoid applicability of this regulation, this source (**ID No. ES-BDO**) shall discharge into the atmosphere less than 40 tons of VOCs per consecutive 12-month period.

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

- b. Calculations of VOC emissions per month shall be made at the end of each month. VOC emissions shall be determined by multiplying the total amount of each type of VOC-containing material emitted during the month by the VOC content of the material. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the amounts of VOC containing materials or the VOC emissions are not monitored and recorded.
- c. Calculations and the total amount of VOC emissions shall be recorded monthly in a logbook (written or electronic format). The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the VOC emissions exceed the limit in 2.1.D.1.a. above.



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

- d. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities 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. The report shall contain the monthly VOC emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months.

**E. One natural gas-fired boiler (ID No. ES-BLR2)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.60 pounds per million Btu	15A NCAC 02D .0503
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	40 percent opacity	15A NCAC 02D .0521
Hazardous air pollutants	Best Combustion Practices with inspection and maintenance requirements	15A NCAC 02D .1109
Hazardous air pollutants	Best Combustion Practices with inspection and maintenance requirements	15A NCAC 02D .1111 MACT Subpart DDDDD
Odors	State-enforceable only See Section 2.2 B.1	15A NCAC 02D .1806

**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-BLR2) into the atmosphere shall not exceed 0.60 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 limits 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-BLR2).

**2. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES**

- a. Emissions of sulfur dioxide from this source (ID No. ES-BLR2) 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 natural gas from the firing of natural gas in this source (**ID No. ES-BLR2**).

**3. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS**

- a. Visible emissions from this source (**ID No. ES-BLR2**) shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 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 90 percent opacity. [15A NCAC 02D .0521(c)]

**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-BLR2**).

**4. 15A NCAC 02D .1109: Case-by-Case MACT**

- a. The Permittee shall use best combustion practices when operating this source (**ID No. ES-BLR2**). Compliance for this work practice standard and the associated monitoring, recordkeeping, and reporting requirements was performed on October 28, 2014. These conditions need not be included on the annual compliance certification until after the initial compliance date.

The Permittee shall comply with the CAA §112(j) standard in this Section through **May 19, 2019**. The Permittee shall be subject to the requirements of the standard Section 2.1 E.5, below, starting **May 20, 2019**. Note that the requirements of this standard may require action on behalf of the Permittee prior to **May 20, 2019**.

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

- b. To ensure compliance, the Permittee shall perform an annual boiler inspection and maintenance as recommended by the manufacturer, or as a minimum, the inspection and maintenance requirement shall include the following:
  - i. Inspect the burner, and clean or replace any components of the burner as necessary;
  - ii. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern; and
  - iii. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly.

The Permittee shall conduct at least one tune-up per calendar year to demonstrate compliance with this requirement. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1109 if the affected boilers are not inspected and maintained as required above.

- c. The results of inspection and maintenance 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 of each recorded action;
  - ii. The results of each inspection; and
  - iii. The results of any maintenance performed on the boilers.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1109 if these records are not maintained.

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

- d. No reporting is required.

**5. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY**

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

- a. For source (**ID No. ES-BLR2**) (existing source designed to burn gas 1 fuels), 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 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."
  - i. The Permittee shall comply with the CAA §112(j) standard in Section 2.1 E.4 through May 19, 2019. The Permittee shall be subject to the requirements of this standard starting May 20, 2019. Note that the requirements of this standard may require action on behalf of the Permittee prior to May 20, 2019.

**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 63.56(b), 63.7510(e)]

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

**Notifications** [40 CFR 63.7545(e)(1), (8), 63.7530(d),(e),(f)]

- e. The Permittee shall submit a Notification of Compliance Status to the DAQ. The notification must be signed by a responsible official and submitted by July 19, 2019. The notification shall contain the following:
  - i. A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, and description of the fuel(s) burned.
  - ii. the following certification(s) of compliance, as applicable:
    - A) "This facility completed the required initial tune-up for all of the boilers and process heaters covered by 40 CFR 63 Subpart DDDDD at the site according to the procedures in 40 CFR 63.7540(a)(10)(i) through (vi)" [i.e., Section 2.1 E.5.g.i through v and m.ii]; and
    - B) "This facility has had an energy assessment performed according to 40 CFR 63.7530(e)" [ i.e., Section 2.1 E.5.l] and is an accurate depiction of the facility at the time of the assessment, or that the maximum number of on-site technical hours specified in the definition of energy assessment applicable to the facility has been expended.

**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 process heater every two years as specified below.
  - i. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may perform the burn inspection any time prior to the tune-up or delay the burner

inspection until the next scheduled 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 NO<sub>x</sub> 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. [40CFR 63.7500(a), (e), 63.7540(a)(10), (a)(11)]
- h. Each biennial tune-up shall be conducted no more than 25 months after the previous tune-up. [40CFR 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)]
- k. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in Section 2.1 E.5.e through j are not met.

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

- l. The Permittee shall have a one-time energy assessment performed by a qualified energy assessor. The energy assessment must address the requirements in 40 CFR 63 Subpart DDDDD, Table 3, with the extent of the evaluation for items (a) to (e) in Table 3 appropriate for the on-site technical hours listed in 40 CFR 63.7575. [40 CFR 63.7500(a)(1), Table 3] The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these requirements are not met.

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

- m. 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 (A) through (C) below:
    - (A) the concentrations of carbon monoxide in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the source;
    - (B) a description of any corrective actions taken as a part of the tune-up; and
    - (C) 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; and [40 CFR 63.7540(a)(10)(vi)]
  - iii. the associated records for Sections 2.1 E.5.f through l.
- n. 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)]
- o. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if records are not maintained as described in Section 2.1 E.5.m and n.
- Reporting Requirements** [15A NCAC 02Q .0508(f)]
- p. The Permittee shall submit compliance reports to the DAQ on a 2-year basis. The first report shall cover the period beginning on the May 20, 2019 and ending on December 31,2020. The first report shall be postmarked on or before January 30, 2021. Subsequent 2-year reports shall cover the periods from January 1 to December 31. The Permittee shall submit the compliance reports postmarked on or before January 30. [40 CFR 63.7550(a), (b)]
  - q. The compliance report must also be submitted electronically via the Compliance and Emissions Data Reporting Interface (CEDRI). CEDRI can be accessed through the EPA's Central Data Exchange (CDX) (<https://cdx.epa.gov/>.) You must use the appropriate electronic report in CEDRI for this subpart. Instead of using the electronic report in CEDRI for this subpart, you may submit an alternate electronic file consistent with the XML schema listed on the CEDRI Web site (<http://www.epa.gov/ttn/chief/cedri/index.html>), once the XML schema is available. If the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, you must submit the report to the Administrator at the appropriate address listed in §63.13. You must begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI. [40 CFR 63.7550(a), (b)]
  - r. 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. include the date of the most recent tune-up for each unit required according to Section 2.1 E.5.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; and
    - v. statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
- [40 CFR 63.7550(a) and (c), Table 9]
- s. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the reporting requirements in Section 2.1 E.5.p through r are not met.

## 2.2 - Multiple Emission Source(s) Specific Limitations and Conditions

### A. Six two-stroke natural gas lean-fired internal combustion engines (ID Nos. ES-M/L9 and ES-M/L11 through ES-M/L15)

#### 1. 15A NCAC 02D .1409: SEASONAL EMISSION RATE FOR LARGE COMBUSTION SOURCES

- a. The sum of nitrogen oxides emissions from mainline units 9 and 11 through 15 (ID Nos. ES-M/L9 and ES-M/L11 through ES-M/L15) shall not exceed 302 tons per season for each respective ozone season (May 1 through September 30).

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

- b. The Permittee shall perform a minimum of nine (9) stack tests runs to establish a correlation between engine operating parameters and NO<sub>x</sub> emissions for each engine using the following equation and constants A, B, and C referenced below:

$$AMP_C = \left[ \frac{\left( AF_{ST} \times (0.0765 \times FSG) \times \frac{FF_{SCFM}}{RPM} \times (AMT + 460) \right)}{(2.699 \times TER_C \times V_{TRAP})} - 14.73 \right] \times 2.036$$

Where:

- AF<sub>ST</sub> = Stoichiometric Air/Fuel Ratio
- FSG = Fuel Gas Specific Gravity
- FF<sub>SCFM</sub> = Unit Fuel Flow Rate in SCFM
- RPM = Unit speed in RPM
- AMT = Air Manifold Temperature = °F
- TER<sub>C</sub> = Critical Trapped Equivalence Ratio
- V<sub>TRAP</sub> = Engine Trapped Volume = ft<sup>3</sup>
- AMP<sub>C</sub> = Critical Air Manifold Pressure = Inches Hg

And:

$$TER_C = A \times \left( \frac{FF_{SCFM}}{RPM} \right)^2 + B \times \left( \frac{FF_{SCFM}}{RPM} \right) + C$$

Where:

A, B, and C = Constants determined based upon initial performance testing of the affected unit

- c. After the initial testing required above, the Permittee shall perform annual (once per calendar year) portable analyzer NO<sub>x</sub> emission tests on one engine of each model type during the ozone season beginning in ozone season 2005 using EPA approved tests methods. For engine groups comprised of two or more engines, a different engine from each engine group shall be tested each year. If the tested hourly NO<sub>x</sub> emissions are greater than those listed in 2.2 A.1.e, the Permittee shall repeat, for that unit, the testing required in 2.2 A.1.b to re-establish the correlation between engine operating parameters and NO<sub>x</sub> emissions for that engine. All testing shall be performed in accordance with General Condition JJ.

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

- d. The Permittee shall install, calibrate, maintain, and operate during each ozone season a parametric emissions monitoring system as per manufacturers specification. The monitoring system shall collect at a minimum four or more data values equally spaced over each hour and record the following operating parameters at the specified frequencies:

- Fuel Flow (FF<sub>SCFM</sub>) in SCFM on an hourly basis
- Engine Speed (RPM) on an hourly basis
- Air Manifold Temperature (AMT) in degrees F on an hourly basis
- Critical Trapped Equivalence Ratio (TER<sub>C</sub>) on an hourly basis
- Engine Trapped Volume (V<sub>TRAP</sub>) in ft<sup>3</sup> on an hourly basis
- Actual Air Manifold Pressure (AMP<sub>ACT</sub>) in inches of Hg on an hourly basis
- Critical Air Manifold Pressure (AMP<sub>C</sub>) in inches of Hg on an hourly basis

If the three hour average of actual air manifold pressure ( $AMP_{ACT}$ ) of any one unit is less than the calculated air manifold pressure ( $AMP_C$ ) for that unit three times during any ozone season, the Permittee shall repeat, for that unit, the testing required in 2.2 A.1.b to re-establish the correlation between parameter levels that indicate proper operation of that engine and ensure compliance with the  $NO_x$  limit. Testing shall be completed and results submitted to the Division of Air Quality within 90 days of the third occurrence.

- e. At the conclusion of each ozone season, the Permittee shall calculate the seasonal  $NO_x$  emission rate for each unit and the total  $NO_x$  emissions for that season from all engines. The  $NO_x$  emissions shall be determined by multiplying the hours of operation for each unit during the ozone season by the hourly  $NO_x$  emissions limit from the following table. If the results of the required annual portable analyzer  $NO_x$  emissions test per Section 2.2 A.1.c above, are higher than the emission limits from the following table, the Permittee shall use the higher value in determining the  $NO_x$  emissions from that engine. Otherwise, the Permittee shall use the values in the following table. The Permittee shall be deemed in noncompliance if the total  $NO_x$  emissions exceed the limits in 2.2 A.1.a

Unit	Hourly $NO_x$ Emission Limit (lbs/hr)
ES-M/L9	14.6
ES-M/L11	23.6
ES-M/L12	23.6
ES-M/L13	23.6
ES-M/L14	38.2
ES-M/L15	38.2

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

- f. The Permittee shall submit a summary report of monitoring and record keeping activities 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.

**B. Facility-wide affected sources**

**(STATE-ENFORCEABLE ONLY REQUIREMENT)**

**1. 15A NCAC 02D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS**

- a. The Permittee shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility's boundary.

## SECTION 3 - GENERAL CONDITIONS (version 4.0 12/17/15)

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 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. **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

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 and Permit Deviations**

[15A NCAC 02D .0535(f) and 02Q .0508(f)(2)]

**“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.)*

**“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.

#### **Excess Emissions**

1. 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.
2. 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).

Permit Deviations

3. Pursuant to 15A NCAC 02Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) as follows:
  - a. Notify the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 02D .0535 quarterly. 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.B. 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 nine 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 (1)]

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 and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all federally-enforceable terms and conditions in the permit, including emissions limitations, standards, or work practices. 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; and
4. the method(s) used for determining the compliance status of the source during the certification period.

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. Annual permit fee payments shall refer to the permit number.

3. 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)(4)]

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(e)]

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 designee 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. **Prevention of Accidental Releases General Duty Clause - Section 112(r)(1) -  
FEDERALLY-ENFORCEABLE ONLY**

Although a risk management plan may not be required, if the Permittee produces, processes, handles, or stores any amount of a listed hazardous substance, the Permittee has a general duty to take such steps as are necessary to prevent the accidental release of such substance and to minimize the consequences of any release.

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, .0912, .1110, .1111, or .1415 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, 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:
    - (1) 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.
    - (2) Prescribe alternate test procedures on an individual basis when he finds that the alternative method is necessary to secure more reliable test data.
    - (3) Prescribe or approve methods on an individual basis for sources or pollutants for which no test method is specified in this Section if the methods can be demonstrated to determine compliance

of permitted emission sources or pollutants.

- b. The Director may authorize the Division of Air Quality to conduct independent tests of any source subject to a rule in this Subchapter 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 Section 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. During operation the monitoring recordkeeping and reporting requirements as prescribed by the permit shall be implemented within the monitoring period.

**MM. Fugitive Dust Control Requirement [15A NCAC 02D .0540] - STATE ENFORCEABLE ONLY**

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(c)(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(d)(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 (EPA - Air Planning Branch, 61 Forsyth St. SW, Atlanta, GA 30303) in writing at least seven days before the change is made. The written notification shall include:
  - a. a description of the change at the facility;
  - b. the date on which the change will occur;
  - c. any change in emissions; and
  - d. any permit term or condition that is no longer applicable as a result of the change.

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 Environmental Protection Agency (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.



## ATTACHMENT

**List of Acronyms**

<b>AOS</b>	Alternate Operating Scenario
<b>BACT</b>	Best Available Control Technology
<b>Btu</b>	British thermal unit
<b>CAA</b>	Clean Air Act
<b>CAIR</b>	Clean Air Interstate Rule
<b>CEM</b>	Continuous Emission Monitor
<b>CFR</b>	Code of Federal Regulations
<b>DAQ</b>	Division of Air Quality
<b>DEQ</b>	Department of Environmental Quality
<b>EMC</b>	Environmental Management Commission
<b>EPA</b>	Environmental Protection Agency
<b>FR</b>	Federal Register
<b>GACT</b>	Generally Available Control Technology
<b>HAP</b>	Hazardous Air Pollutant
<b>MACT</b>	Maximum Achievable Control Technology
<b>NAA</b>	Non-Attainment Area
<b>NCAC</b>	North Carolina Administrative Code
<b>NCGS</b>	North Carolina General Statutes
<b>NESHAPS</b>	National Emission Standards for Hazardous Air Pollutants
<b>NO<sub>x</sub></b>	Nitrogen Oxides
<b>NSPS</b>	New Source Performance Standard
<b>OAH</b>	Office of Administrative Hearings
<b>PM</b>	Particulate Matter
<b>PM<sub>10</sub></b>	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
<b>POS</b>	Primary Operating Scenario
<b>PSD</b>	Prevention of Significant Deterioration
<b>RACT</b>	Reasonably Available Control Technology
<b>SIC</b>	Standard Industrial Classification
<b>SIP</b>	State Implementation Plan
<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>tpy</b>	Tons Per Year
<b>VOC</b>	Volatile Organic Compound