JOSH STEIN
Governor
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MICHAEL ABRACZINSKAS
Director

NORTH CAROLINA
Environmental Quality

DD MM, YYYY

Glen Jasek
VP GM Eastern Interstates
Transcontinental Gas Pipe Line Company, LLC – Station 150
2800 Post Oak Boulevard, Suite 600
Houston, TX 77056-6156

SUBJECT: Air Quality Permit No. 10589R01
Facility ID 2900300
Transcontinental Gas Pipe Line Company, LLC – Station 155
Lexington, North Carolina
Davidson County
Fee Class: Title V
PSD Class: Minor

Dear Mr. Jasek,

In accordance with your completed application received on April 21, 2025, we are forwarding, herewith, Permit No. 10859R00 to Transcontinental Gas Pipe Line Company, LLC - Station 155, Lexington, Davidson County, North Carolina for the construction and operation of air emissions sources or air cleaning devices and appurtenances.

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

Unless exempted by a condition of this permit or the regulations, construction of new air pollution sources or air cleaning devices, or modifications to the sources or air cleaning devices described in this permit must be covered under a permit issued by the Division of Air Quality prior to construction. Failure to do so is a violation of G.S. 143-215.108 and may subject the Permittee to civil or criminal penalties as described in G.S. 143-215.114A and 143-215.114B.

Davidson County has triggered increment tracking under PSD for PM_{10}, NO_x, and $PM_{2.5}$. This modification will result in an increase in 4.67 pounds per hour of PM_{10}, 4.61 pounds per hour of $PM_{2.5}$, 22.87 pounds per hour of NO_x.

This permit shall be effective from MM DD, YYYY, until MM DD, YYYY is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

The Permittee is responsible for carefully reading the entire permit and evaluating the requirements of each permit stipulation. The Permittee shall comply with all terms, conditions,

requirements, limitations, and restrictions set forth in this permit. 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.

Should you have any questions concerning this matter, please contact Lissabeth Gardner at (919) 707-8729 and Lissabeth.Gardner@nc.deq.gov.

Sincerely yours,

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

Enclosure

c: Brad Akers, EPA Region 4 (Permit and Review)
Laserfiche (2900300)
Connie Horne (cover letter only)

NOTICE REGARDING THE RIGHT TO CONTEST A DIVISION OF AIR QUALITY PERMIT DECISION

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

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

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

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

Daniel S. Hirschman, General Counsel
North Carolina Department of Environmental Quality
1601 Mail Service Center
Raleigh, North Carolina 27699-1601

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

* * *

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

Summary of Changes to Permit

The following changes were made to Air Permit No. 10589R00:*

Page(s)	Section	Description of Changes
Cover Letter and throughout permit	--	• Updated all dates and permit revision numbers • Reformatted permit in accordance with current TV permitting shell
3	1	• Added emission sources ES-TUR02, ES-TUR-03, ES-TUR04, ES-EGEN-02, ES-EGEN-03, and ES-EGEN-04 to permitted emission source list
3	1	• Changed the name of ES-EG01 to ES-EGEN-01 at the request of Transco.
3	1	• Changed the heating value for ES-TUR01 from the higher heating value to the lower heating value to match other turbine descriptions. (200.58 million Btu per hour maximum heat input to 168.69 million Btu per hour maximum heat input)
4-6	2.1 A.1 and A.2	• Added ES-TUR02, ES-TUR-03, and ES-TUR04 to section 2.1 A for NSPS KKKK and 02D. 0521
7-10	2.1 B.1-B.4	• Added ES-EGEN-02, ES-EGEN-03, and ES-EGEN-04 to section 2.1 B for 02D .0516, .0521, NSPS JJJJ, and MACT ZZZZ
11	2.2 A.1	• Replaced air toxics condition for 15A NCAC 02D .1100 in accordance with new air toxics modeling demonstration
12	2.2 A.3	• Added facility-wide PSD avoidance condition limit for NOx and CO
12	2.2 A.3	• Revised air toxics condition for 15A NCAC 02Q .0711 in accordance with new air toxics modeling demonstration
14 - 15	2.2 A.4 through A.8	• Added Fugitive Dust Control Requirement, Permit Renewal Requirement, Annual Emission Inventory Requirement, and 15A NCAC 02Q .0504: Option for Obtaining Construction and Operation Permit Requirement
16	2.2 B.1	• Added 40 CFR 60 Subpart OOOOb
23	3	• Moved sources I-TANK01 through I-TANK03, I-NGBD, I-COMPFUG, and I-NCOMPFUG from Emission source table to insignificant activities table
23	3	• Added sources I-SSEP-FUG02 through I-SSEP-FUG04, I-TUR02-CB through I-TUR04-CB, and I-TTLO to the insignificant activities table • Removed I-TANK04 from the insignificant list as it is not at the facility • Updated the capacity for I-TANK01 and I-TANK02 from 8,820 gallons to 5,000 gallons to accurately describe the capacity of the tanks • Updated the capacity from 432 to 850 gallons for I-TANK03 to accurately describe the capacity of the tank.

* This list is not intended to be a detailed record of every change made to the permit but a summary of those changes.

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

AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
10589R01	10589R00	XXXX*2025	XXXX2033**

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 Company, LLC – Station 155**
Facility ID:	**2900300**
Primary SIC Code:	**4922**
NAICS Code:	**486210**
Facility Site Location:	**650 Becky Hill R**
City, County, State, Zip:	**Lexington, Davidson, NC 27295**
Mailing Address:	**2800 Post Oak Blvd, Suite 600**
City, State, Zip:	**Houston, TX 77506**
Application Number(s):	**2900300.25A**
Complete Application Date(s):	**May 27, 2025**
Division of Air Quality, Regional Office Address:	**Winston-Salem Regional Office** **450 West Hanes Mill Road, Suite 300** **Winston-Salem, NC 27105**

Table of Contents

List of Acronyms

AOS	Alternative Operating Scenario
BACT	Best Available Control Technology
BAE	Baseline Actual Emissions
Btu	British thermal unit
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CEDRI	Compliance and Emissions Data Reporting Interface
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COMS	Continuous Opacity Monitoring System
CSAPR	Cross-State Air Pollution Rule
DAQ	Division of Air Quality
DEQ	Department of Environmental Quality
EMC	Environmental Management Commission
EPA	Environmental Protection Agency
FR	Federal Register
GACT	Generally Available Control Technology
GHGs	Greenhouse Gases
HAP	Hazardous Air Pollutant
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
NAA	Non-Attainment Area
NAAQS	National Ambient Air Quality Standards
NAICS	North American Industry Classification System
NCAC	North Carolina Administrative Code
NCGS	North Carolina General Statutes
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_X	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
OAH	Office of Administrative Hearings
PAE	Projected Actual Emissions
PAL	Plantwide Applicability Limitation
PM	Particulate Matter
$PM_{2.5}$	Particulate Matter with Nominal Aerodynamic Diameter of 2.5 Micrometers or Less
PM_{10}	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
POS	Primary Operating Scenario
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
RACT	Reasonably Available Control Technology
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
TAP	Toxic Air Pollutant
tpy	Tons Per Year
VOC	Volatile Organic Compound

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

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-TUR01 **NSPS KKKK** **NSPS OOOOa**	Natural gas-fired Solar Titan 130 combustion turbine with dry low NOx combustion technology (168.69 million Btu per hour maximum heat input)	N/A	N/A
ES-TUR02* **NSPS KKKK** **NSPS OOOOb**	Natural gas-fired Solar Titan 130 combustion turbine with dry low NOx combustion technology (168.65 million Btu per hour maximum heat input)	N/A	N/A
ES-TUR03* and ES-TUR04* **NSPS KKKK** **NSPS OOOOb**	Two natural gas-fired Solar Titan 250 combustion turbines with dry low NOx combustion technology (207.99 million Btu per hour maximum heat input)	N/A	N/A
ES-EGEN-01 **NSPS JJJJ** **MACT ZZZZ**	One natural gas-fired emergency generator engine (1,500 horsepower engine output)	N/A	N/A
ES-EGEN-02*, ES-EGEN-03*, and ES-EGEN-04* **NSPS JJJJ** **MACT ZZZZ**	Three natural gas-fired emergency generator engines (2,102 horsepower engine output, each)	N/A	N/A

* Pursuant to application(s) 2900300.25A, these emission source(s) and/or control devices are listed as a 15A NCAC 02Q .0501(b)(2) modification. The Permittee shall file a Title V Air Quality Permit Application on or before 12 months after commencing operation of any of these emission sources.

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

2.1 Emission Source(s) and Control Devices(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. The following four natural gas combustion turbines:

Table 2.1 A

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-TUR01 **NSPS KKKK** **NSPS OOOOa**	Natural gas-fired Solar Titan 130 combustion turbine with dry low NOx rated at 168.69 million Btu per hour heat input	N/A	N/A
ES-TUR02 **NSPS KKKK** **NSPS OOOOb**	Natural gas-fired Solar Titan 130 combustion turbine with dry low NOx rated at 168.65 million Btu per hour heat input	N/A	N/A
ES-TUR03 and ES-TUR04 **NSPS KKKK** **NSPS OOOOb**	Two natural gas-fired Solar Titan 250 combustion turbines with dry low NOx rated at 207.99 million Btu per hour heat input	N/A	N/A

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

Pollutant	Limits/Standards	Applicable Regulation
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Nitrogen oxides	25 ppm at 15 percent O_2 150 ppm at 15 percent O_2 When operating at less than 75 percent peak load or operating at less than 0 °F	15A NCAC 02D .0524 (40 CFR 60, Subpart KKKK)
Sulfur dioxide	0.060 pounds SO_2 per million Btu heat input	
Greenhouse gases & Volatile organic compounds	See Section 2.2 B.1 (**ID Nos. ES-TUR02 through ES-TUR04)** See Section 2.2 B.2 **(ID Nos. ES-TUR01)**	15A NCAC 02D .0524 (40 CFR 60, Subpart OOOOb)
Odors	**State-enforceable only** See Section 2.2 A.2	15A NCAC 02D .1806

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

a. Visible emissions from these sources shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0308(a)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition 17.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0308(a)]

c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of natural gas in these sources.

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

a. For these sources (*stationary combustion turbines with a heat input greater than 10 MMBtu/hr*), the Permittee shall comply with all applicable provisions, including the requirements for emission standards, notification, testing, reporting, recordkeeping, and monitoring, contained in Environmental Management Commission Standard 15A NCAC

02D .0524 "New Source Performance Standards" (NSPS) as promulgated in 40 CFR Part 60 Subpart KKKK, "Standards of Performance for Stationary Combustion Turbines," including Subpart A "General Provisions."

Definitions and Nomenclature

b. For the purposes of this permit condition, the definitions and nomenclature contained in 40 CFR 60.4420 shall apply.

Emission Limitations [15A NCAC 02Q .0308(a)]

c. The following emission limitations apply:
   i. NO_x emissions (except during startup, shutdowns, and malfunction) from each combustion turbine must not exceed the following limitations:
   [40 CFR 60.4320, Table 1 to 40 CFR 60 Subpart KKKK]

Fuel Type	Operating Conditions*	NO_x Limit at 15 Percent O_2
Natural Gas	75 percent of peak load or higher	25 ppm
	When operating at less than 75 percent of peak load or operating at less than 0°F	150 ppm

* Peak load defined as the design capacity at ISO conditions.

   ii. Potential SO_2 emissions from the fuel burned in each combustion turbine must not exceed 0.060 pounds per million Btu heat input, except during startup, shutdown, and malfunction. [40 CFR 60.4330(a)(2)]

Testing [15A NCAC 02Q .0308(a)]

d. The Permittee shall demonstrate compliance with the NO_x emission limits in the Section 2.1 A.2.c above by:
   i. Conducting an initial performance test as required by 40 CFR 60.8 and 40 CFR 60.4400, in accordance with General Condition 17 within 60 days after achieving the maximum production rate at which the facility will be operated, but no later than 180 days after initial startup for each combustion turbine. [40 CFR 60.4400(a), 60.8]
   ii. Each performance test shall be conducted at any load condition within plus or minus 25 percent of 100 percent of peak load. Three separate test runs shall be conducted for each performance test with a minimum time of 20 minutes per run and the ambient temperature for each test run shall be above 0 °F. The Permittee shall perform testing at the highest achievable load point, if at least 75 percent of peak load cannot be achieved in practice. [40 CFR 60.4400(b)]
   iii. Compliance is achieved if the three-run arithmetic average NO_x emission rate at each tested level meets the applicable emission limit in 40 CFR 60.4320. [40 CFR 60.440(b)(4)]
   iv. Annual performance tests shall be conducted no more than 14 calendar months following the previous performance test) in accordance with 40 CFR 60.4400 to demonstrate continuous compliance. If the NO_x emission result from the performance test is less than or equal to 75 percent of the NO_x emission limit for the turbine, the frequency of subsequent performance tests may be reduced to once every two years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NO_x emission limit for the turbine, annual performance tests shall be resumed. [40 CFR 60.4340(a)]

Monitoring/Recordkeeping [15A NCAC 02Q .0308(a)]

e. The following monitoring and recordkeeping requirements apply. The Permittee shall:
   i. Operate and maintain the combustion turbines, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction. [40 CFR 60.4333(a)]
   ii. Demonstrate compliance with the applicable SO_2 emission limit by using the fuel quality characteristics in a current, valid purchase contract, tariff sheet, or transportation contract for the fuel, specifying that the total sulfur content for natural gas use is 20 grains of sulfur or less per 100 standard cubic feet and has the potential sulfur emissions of less than 0.060 pounds SO_2 per million Btu heat input. [40 CFR 60.4365(a)]
   iii. Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any period during which a continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]
   ii. Maintain records of all measurements, including monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device

calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection. The records shall be retained for at least two years following the date of such measurements, maintenance, reports, and records, except as allowed pursuant to 40 CFR 60.7(f). [40 CFR 60.7(f)]

Reporting [15A NCAC 02Q .0308(a)]

f. The following reporting requirements apply. The Permittee shall:
   i. Submit a notification of the date construction of an affected facility is commenced, postmarked no later than 30 days after such date. [40 CFR 60.7(a)(1)]
   ii. Submit a notification of the actual date of initial startup of an affected facility postmarked within 15 days after such date. [40 CFR 60.7(a)(3)]
   iii. Provide the DAQ at least 30 days prior notice of any performance test, except as specified under other Subparts, to afford the Administrator the opportunity to have an observer present. [40 CFR 60.8(d)]
   iv. Submit a written report of the results of each initial performance test required in 40 CFR 60.8 before the close of business on the 60th day following the completion of the performance test. [40 CFR 60.8(a)]
   v. Submit a written report of the results of each annual/subsequent performance test before the close of business on the 60th day following the completion of the performance test. [40 CFR 60.4375(b)]
   vi. Submit a summary report 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. All instances of deviations from the requirements of this permit shall be clearly identified. The report shall include a summary report of the fuel purchase contracts, tariff sheets or transportation contracts indicated in Section 2.1 A.2.e.ii above.

B. The following four natural gas-fired four-stroke lean-burn emergency generators:

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-EGEN-01 **NSPS JJJJ** **MACT ZZZZ**	One natural gas-fired emergency generator engine (1,500 horsepower engine output)	N/A	N/A
ES-EGEN-02, ES-EGEN-03, and ES-EGEN-04 **NSPS JJJJ** **MACT ZZZZ**	Three natural gas-fired emergency generator engines (2,102 horsepower engine output, each)	N/A	N/A

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

Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Nitrogen oxides	2.0 g/HP-hr (160 ppm)	15A NCAC 02D .0524 (40 CFR 60, Subpart JJJJ)
Carbon monoxide	4.0 g/HP-hr (540 ppm)	
Volatile organic compounds	1.0 g/HP-hr (86 ppm)	
Odors	**State-enforceable only** See Section 2.2 A.2	15A NCAC 02D .1806

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

a. Emissions of sulfur dioxide from these sources 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 .0308(a)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition 17.

Monitoring/Recordkeeping/Reporting [NCAC 02Q .0308(a)]

c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of natural gas in these sources.

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

a. Visible emissions from these sources shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0308(a)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition 17.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0308(a)]

c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of natural gas in these sources.

3. 15A NCAC 02D .0524: NEW PERFORMANCE STANDARDS

Applicability [40 CFR 60.4230(a)(4)(iv)]

a. For these emission sources, the Permittee shall comply with all applicable provisions, including the requirements for emission standards, notification, testing, reporting, recordkeeping, and monitoring, contained in Environmental Management Commission Standard 15A NCAC 02D .0524 “New Source Performance Standards” (NSPS) as

promulgated in 40 CFR Part 60, Subpart JJJJ "Standards of Performance for Stationary Spark Ignition Internal Combustion Engines," including Subpart A "General Provisions."

Definitions and Nomenclature

b. For the purposes of this permit condition, the definitions and nomenclature contained in 40 CFR 60.4248 shall apply.

General Provisions

c. The Permittee shall comply with the General Provisions of 40 CFR Part 60, Subpart A as presented in Table 3 of 40 CFR 60, Subpart JJJJ. [40 CFR 60.4246]

Emission Standards

d. The Permittee shall comply with the following emission standards: [40 CFR 60.4233(e), Table 1 of 40 CFR 60, Subpart JJJJ]

Engine type	Maximum engine power	Manufacture date *(after)*	Emission standards g/HP-hr (ppmvd at 15% O_2)		
			NO_x	CO	VOC
Emergency	HP ≥ 130	1/1/2009	2.0 (160)	4.0 (540)	1.0 (86)

Testing [15A NCAC 02Q .0308(a)]

e. If emissions testing is required, the testing shall be performed in accordance with General Condition 17.

Monitoring [15A NCAC 02Q .0308(a)]

f. The engine shall be equipped with a non-resettable hour meter. [40 CFR 60.4237(a)]

Compliance Requirements [15A NCAC 02Q .0308(a)]

g. The following compliance requirements apply:
   i. The Permittee shall demonstrate compliance with the emission standards in Section 2.1 B.3.d above by purchasing an engine certified according to the procedures in 40 CFR 60, Subpart JJJJ for its respective model year [40 CFR 60.4243(b)(1)], and demonstrating compliance according to one of the following methods:
      (A) operating and maintaining the certified stationary spark ignition (SI) internal combustion engine (ICE) and control device according to the manufacturer's emission-related written instructions. The Permittee shall keep records of conducted maintenance to demonstrate compliance , but no performance testing is required. The Permittee shall also meet the requirements as specified in 40 CFR Part 1068, Subparts A through D, as they apply to the Permittee. If the engine settings are adjusted according to and consistent with the manufacturer's instructions, the stationary SI internal combustion engine will not be considered out of compliance. [40 CFR 60.4243(a)(1)]; OR
      (B) keep a maintenance plan and records of conducted maintenance and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee shall conduct an initial performance test within 1 year of engine startup and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance. [40 CFR 60.4243(a)(2)(iii)]
   ii. The Permittee shall operate and maintain the stationary SI ICE that achieve the emission standards as required in Section 2.1 B.3.d above over the entire life of the engine. [40 CFR 60.4234]
   iii. If applicable, air-to-fuel ratio (AFR) controllers shall be used with the operation of three-way catalysts/non-selective catalytic reduction. The AFR controller shall be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times. [40 CFR 60.4243(g)]
   iv. In order for the engine to be considered an emergency stationary ICE under 40 CFR 60, Subpart JJJJ, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described below, is prohibited.
      (A) There is no time limit on the use of emergency stationary ICE in emergency situations.
      (B) The Permittee may operate the emergency stationary ICE for any combination of the purposes specified in paragraph (1) below for a maximum of 100 hours per calendar year. Any operation for non-emergency

situations as allowed by paragraph iv.(C) below counts as part of the 100 hours per calendar year allowed by this paragraph iv.(B).

(1) 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 owner or operator 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.

(C) 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 provided in paragraph iv.(B) above. Except as provided in paragraph (C)(1) below, the 50 hours per 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 agreement with another entity.

(1) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another facility if all of the following conditions are met:

(a) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;

(b) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(c) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(d) The power is provided only to the facility itself or to support the local transmission and distribution system.

(e) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

[40 CFR 60.4243(d)]

Recordkeeping [15A NCAC 02Q .0308(a)]

h. The Permittee shall keep the following records:
   i. All notifications submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification. [40 CFR 60.4245(a)(1)]
   ii. Maintenance conducted on the engine. [40 CFR 60.4245(a)(2)]
   iii. If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR Parts 90, 1048, 1054, and 1060 as applicable. [40 CFR 60.4245(a)(3)]
   iv. If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to Section 2.1 B.3.g.i.(B) above, documentation that the engine meets the emission standards. [40 CFR 60.4245(a)(4)]
   v. The hours of operation of the engine 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. [40 CFR 60.4245(b)]
   vi. Any records required to be maintained by this subpart that are submitted electronically via the EPA's Compliance and Emissions Data Reporting Interface (CEDRI) may be maintained in electronic format. [40 CFR 60.4245(j)]

Reporting [15A NCAC 02Q .0308(a)]

i. The following reporting requirements apply:
   i. The Permittee shall submit, to the DAQ, a summary report of monitoring and recordkeeping activities given in Sections 2.1 B.3.h above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of noncompliance with the requirements of this permit shall be clearly identified.
   ii. If performance testing is required:
      (A) The Permittee shall submit a copy of each performance test as conducted in 40 CFR 60.4244 within 60 days after the test has been completed directly to the EPA electronically according to 40 CFR 60.4245(f). [40 CFR 60.4245(d)]
      (B) The Permittee shall also submit the report in (A) above directly to the DAQ within 60 days after the test has been completed.
   iii. If the Permittee owns or operates an emergency stationary SI ICE with a maximum engine power more than 100 HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in Section 2.1 B.3.g.iv.(C) above, the Permittee shall submit an annual report according to the following requirements.
      (A) The report shall contain the information in 40 CFR 60.4245(e)(1).
      (B) Annual reports for each calendar year shall be submitted no later than March 31 of the following calendar year.
      (C) The annual report shall be submitted electronically to the EPA 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). 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 shall be submitted to the Administrator at the appropriate address listed in 40 CFR 60.4.

      [40 CFR 60.4245(e) and (g)]
   iv. If applicable, the report required in paragraph iii above shall also be submitted to the DAQ no later than March 31 of the following calendar year.

4. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

Applicability [40 CFR 63.6585, 6590(a)(2)(iii)]

a. For these sources (*new stationary RICE located at an area source of HAP emissions*), 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 ZZZZ, "National Emission Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines" and Subpart A "General Provisions."

Stationary RICE subject to Regulations under 40 CFR Part 60 [15A NCAC 02Q. 0508(f)]

a. Pursuant to 40 CFR 63.6590(c)(1), these must meet the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A by meeting the requirements of 40 CFR 60 Subpart IIII. No further requirements apply for these engines under 40 CFR 63 Subpart ZZZZ and Subpart A.

2.2 Multiple Emission Source(s) Specific Limitations and Conditions

A. Facility-wide affected sources

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

Pollutant	Limits/Standards	Applicable Regulation
Toxic air pollutants	**State-enforceable only** See Section 2.2 A.1	15A NCAC 02D .1100
Odors	**State-enforceable only** Odorous emissions must be controlled	15A NCAC 02D .1806
Toxic air pollutants	**State-enforceable only** See Section 2.2 A.4	15A NCAC 02Q .0711
NO_x and CO	See Section 2.2 A.3	15A NCAC 02Q .0317

State-enforceable only

1. 15A NCAC 02D .1100: CONTROL OF TOXIC AIR POLLUTANTS

a. Pursuant to 15A NCAC 02D .1100 and in accordance with the approved application for an air toxics compliance demonstration, the following permit limits shall not be exceeded:

Emission Sources	Emission Source ID No.	Toxic Air Pollutant	Emission Limit
Turbine 01	ES-TUR01	Acrolein (lb/hr)	1.29E-03
		Benzene (lb/yr)	21.02
		Formaldehyde (lb/hr)	4.21E-02
Compressor Blowdowns for Turbine 01	I-TUR01-CB	Benzene (lb/yr)	6.32
Turbine 02	ES-TUR02	Acrolein (lb/hr)	2.29E-02
		Benzene (lb/yr)	22.25
		Formaldehyde (lb/hr)	7.54E-01
Compressor Blowdowns for Turbine 02	I-TUR02-CB	Benzene (lb/yr)	6.32
Turbine 03	ES-TUR03	Acrolein (lb/hr)	9.84E-03
		Benzene (lb/yr)	27.16
		Formaldehyde (lb/hr)	3.13E-01
Compressor Blowdowns for Turbine 03	I-TUR03-CB	Benzene (lb/yr)	3.05
Turbine 04	ES-TUR04	Acrolein (lb/hr)	9.52E-03
		Benzene (lb/yr)	27.16
		Formaldehyde (lb/hr)	3.13E-01
Compressor Blowdowns for Turbine 04	I-TUR04-CB	Benzene (lb/yr)	3.05
TTLO (Tank Loadout to Truck Fugitives)	I-TTLO	Benzene (lb/yr)	4.23E-06
Piping component fugitives for Turbine 01	I-COMPFUG	Benzene (lb/yr)	7.72
Volume sources			
Natural gas condensate liquids storage tank Working and breathing	I-TANK01	Benzene (lb/yr)	1.56E-09
Natural gas condensate liquids flashing	I-TANK01	Benzene (lb/yr)	0.045
NG Venting and Blowdown Emission Point 1	I-NGBD	Benzene (lb/yr)	2.14

Emission Sources	Emission Source ID No.	Toxic Air Pollutant	Emission Limit
NG Venting and Blowdown Emission Point 2	I-NGBD	Benzene (lb/yr)	2.14
Piping Component Fugitives for Turbines 02 through 04	I-SSEPFUG02 through I-SSEPFUG04)	Benzene (lb/yr)	4.38
Piping Component Fugitives (domestic piping/valve yard)	I-NCOMPFUG	Benzene (lb/yr)	0.57

b. The Permittee has submitted a toxic air pollutant dispersion modeling analysis dated April 21, 2025, for the facility's toxic air pollutant emissions as listed in the table above. The modeling analysis was reviewed and approved by the AQAB on May 6, 2025. Placement of the emission sources, configuration of the emission points, and operation of the sources shall be in accordance with the submitted dispersion modeling analysis and should reflect any changes from the original analysis submittal as outlined in the AQAB review memo.

Monitoring/Recordkeeping/Reporting [15A NCAC 02D .0611]

c. No monitoring, recordkeeping, reporting is required.

State-enforceable only

2. 15A NCAC 02D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS

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.

3. 15A NCAC 02Q .0317: AVOIDANCE CONDITIONS
for 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

a. In order to avoid applicability of 15A NCAC 02D .0530(g) for major sources and major modifications, facility-wide emission sources **(ID Nos. ID Nos. ES-TUR01, ES-TUR02, ES-TUR03, ES-TUR04, ES-EGEN-01, ES-EGEN-02, ES-EGEN-03 and EGEN-04))** shall discharge into the atmosphere less than 250 tons of NO_x total and less than 250 tons of CO total, per consecutive 12-month period.

Operating Restrictions [15A NCAC 02Q .0308(a)(1)]

b. The Permittee shall operate the SoLoNOx combustion technology installed on each turbine at all times each turbine is operating, except during startup, shutdown or at ambient temperatures below 0ºF.

Testing [15A NCAC 02Q .0308(a)(1)]

c. The following testing requirements apply:
   i. If emissions testing is required, the testing shall be performed in accordance with General Condition 17.
   ii.. The Permittee shall confirm the emission factors in units of pounds per hour for the operating scenario "normal operation at or above 0ºF for both NOx and CO in Section 2.2 A.3.e below, by performing stack testing on these sources **(ID Nos. ES-TUR01 through ES-TUR04)** in accordance with the requirements below.
      (A)- Initial testing shall be completed and the results submitted within 180 days of the startup of each turbine unless an alternate date is approved by the DAQ.
      (B) For each of the four turbines, the Permittee shall perform emissions testing for NOx in accordance with the requirements of 40 CFR 60, Subpart KKKK as included in Section 2.1 B.2.d as applicable.
      (C) For each of the four turbines, one-time stack testing for CO emissions shall be completed concurrently with the next required testing for NOx, as provided in paragraph c.ii.(B) above.
   iii. If any testing indicates any emission rates greater than those listed in Table 2.2 A.3.A below, the Permittee shall submit a permit application concurrently with the test report required by General Condition 17 to revise the appropriate values in Table 2.2 A.3.A below.

Monitoring/Recordkeeping [15A NCAC 02Q .0308(a)(1)]

e. The hours of operation of these sources **(ID Nos. ES-TUR01, ES-TUR02, ES-TUR03 and ES-TUR04, EGEN-01, EGEN-02, and EGEN-03)** shall be limited such that the facility-wide NOx and CO emissions shall each be less than the limits in Section 2.2 A.3.a for any consecutive 12-month period. Calculations shall be made monthly and recorded in a logbook (written or in electronic format), according to the following methods:
   i. For each turbine, the Permittee shall calculate NOx and CO emissions by multiplying the hours (or partial hours) of operation during each scenario in the previous month times the appropriate emission factor in Table 2.2 A.3 A below.

Table 2.2 A.3 A: Emission Factors for Turbines

	NO_x Emission Limit (pounds per hour)			CO Emission Limit (pounds per hour)			
Emission Source ID No.	**Normal Operation at or above 0°F**	**Operation below 0°F**	**Startup or Shutdown**	**Normal Operation at or above 0°F**	**Operation below 0°F**	**Startup**	**Shutdown**
ES-TUR01	10.13	27.68	6	10.28	40.12	162	144
ES-TUR02	6.08	28.55	6	6.17	41.38	102	120
ES-TUR03	7.46	7.43	6	7.57	7.54	126	108
ES-TUR04	7.46	7.43	6	7.57	7.54	126	108

   ii. For each engine, calculate the NOx and CO emissions by multiplying the hours (or partial hours) of operation in the previous month times the appropriate emission factor in Table 2.2 A.3 B below.

Table 2.2 A.3 B: Emission Factors for Engines (pounds per hour)

Emission Source ID No.	NO_x: All Operation	CO: All Operation
ES-EGEN-01	6.61	13.23
ES-EGEN-02	8.87	17.74
ES-EGEN-03	8.87	17.74
ES-EGEN-04	8.87	17.74

iii. At the end of each month, the Permittee shall:
(A) calculate the monthly facility-wide total NOx and CO emissions by summing the monthly NOx and CO emissions of each source calculated pursuant to paragraphs i and ii above.
(B) sum the monthly facility-wide total NOx and CO emissions over the previous 12 months.

f. The Permittee shall record and maintain records of:
i. hours of operation of each turbine in each operating scenario;
ii. hours of operation of each engine;
iii. total NOx and CO emissions; and
iv. the total NOx and CO emissions summed over the previous 12 months.
v. sufficient records to show the SoLoNOx combustion technology for each turbine meets the operating restriction in Section 2.2.A.3.b above.

g. The above records shall be recorded monthly in a logbook (written or electronic format), maintained on-site and made available to the DAQ upon request.

Reporting [15A NCAC 02Q .0308(a)(1)]

h. The Permittee shall submit a summary report of monitoring and recordkeeping activities given in Section 2.2 A.3.e through g above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
i. monthly emissions of NOx and CO for each of the previous 17 months;
ii. total emissions of NOx and CO for each of the 17-month periods over the previous 17 months;
iii. monthly hours of operation of each turbine in each operating scenario for the previous 17 months; and
iv. monthly hours of operation of each engine for the previous 17 months.

State-enforceable only

4. 15A NCAC 02D .0711: EMISSION RATES REQUIRING A PERMIT

a. The facility shall be operated and maintained in such a manner that any new, existing or increased actual emissions of any Toxic Air Pollutant (TAP) listed in 15A NCAC 02Q .0711 or in this permit from all sources at the facility (excluding those sources exempt under 15A NCAC 02Q .0702 "Exemptions"), including fugitive emissions and emission sources not otherwise required to have a permit, will not exceed its respective TAP permitting emission rates (TPER) listed in 15A NCAC 02Q .0711 without first obtaining an air permit to construct or operate.
b. PRIOR to exceeding any of the TPERs listed in 15A NCAC 02Q .0711, the Permittee shall be responsible for obtaining an air permit to emit TAPs and for demonstrating compliance with the requirements found in 15A NCAC 02D .1100 "Control of Toxic Air Pollutants."
c. The Permittee shall maintain at the facility records of operational information sufficient for demonstrating to the Division of Air Quality staff that actual TAPs are less than the rate listed in 15A NCAC 02Q .0711.
d. The TPER table listed below is provided to assist the Permittee in determining when an air permit is required pursuant to 15A NCAC 02Q .0711 and may not represent all TAPs being emitted from the facility. This table will be updated at such time as the permit is either modified or renewed.

Pollutant	CAS NUMBER	Carcinogens (lb/yr)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
1,1,2,2-Tetrachloroethane	(79-34-5)	430			
1,3-Butadiene	(106-99-0)	11			
Acetaldehyde	(75-07-0)				6.8

Pollutant	CAS NUMBER	Carcinogens (lb/yr)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
Benzo(e)pyrene	(50-32-8)	2.2			
Carbon tetrachloride	(56-23-5)	460			
Chlorobenzene	(108-90-7)		46		
Chloroform	(67-66-3)	290			
Ethylene dibromide	(106-93-4)	27			
Methylene chloride	(75-09-2)	1600		0.39	
n-Hexane	(110-54-3)		23		
Phenol	(108-95-2)			0.24	
Styrene	(100-42-5)			2.7	
Tetrachloroethane	(79-01-6)	430			
Toluene	(108-88-3)		98		14.4
Vinyl chloride	(75-01-4)	26			
Xylene	(1330-20-7)		57		16.4

5. FUGITIVE DUST CONTROL REQUIREMENT

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 are received 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 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, stockpile working, plant parking lots, and plant roads (including access roads and haul roads).

6. PERMIT RENEWAL REQUIREMENT

The Permittee, at least 90 days prior to the expiration date of this permit, shall request permit renewal by letter in accordance with 15A NCAC 02Q .0304(d) and (f). Pursuant to 15A NCAC 02Q .0203(i), no permit application fee is required for renewal of an existing air permit (without a modification request). The renewal request (with AA application form) should be submitted to the Regional Supervisor, DAQ.

7. ANNUAL EMISSION INVENTORY REQUIREMENT

Pursuant to 15A NCAC 02Q .0207, the Permittee shall submit an air pollution emission inventory report (with Certification Sheet) by June 30 of each year in accordance with 15A NCAC 02Q .0207(a). The report shall include 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 and be submitted to the Regional Supervisor, DAQ. 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 as defined under 40 CFR 70.2.

8. NOTIFICATION REQUIREMENT

As required by 15A NCAC 02D .0535, the Permittee of a source of excess emissions that last for more than four hours and that results from a malfunction, a breakdown of process or control equipment or any other abnormal conditions, shall:

a. Notify the Director or his designee 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 describe:
   i. the name and location of the facility,
   ii. the nature and cause of the malfunction or breakdown,
   iii. the time when the malfunction or breakdown is first observed,
   iv. the expected duration, and
   v. an estimated rate of emissions.

b. Notify the Director or his designee immediately when the corrective measures have been accomplished. This reporting requirement does not allow the operation of the facility in excess of Environmental Management Commission Regulations.

9. 15A NCAC 02Q .0504: OPTION FOR OBTAINING CONSTRUCTION AND OPERATION PERMIT

Permitting [15A NCAC 02Q .0504(c)]

a. Pursuant to 15A NCAC 02Q .0501(b)(2) for completion of the two-step significant modification process initiated by Application No. 5100556.24A, the Permittee shall file an amended application following the procedures of Section 15A NCAC 02Q .0500 within one year from the date of beginning operation of any of these sources (**ID Nos. ES-TUR02 through ES-TUR04 and ES-EGEN02 through ES-EGEN04**).

Reporting [15A NCAC 02Q .0308(a)(1)]

b. The Permittee shall notify the Regional Office in writing of the date of beginning operation of any of the sources in Section 2.2 B.9 above postmarked no later than 30 days after such date.

B. Facility-wide affected sources subject to 40 CFR 60, Subpart OOOOb

1. 15A NCAC 02D .0524: NEW SOURCE PERFORMANCE STANDARDS

a. For the following affected facilities, the Permittee shall comply with all applicable provisions, including the requirements for emission standards, notification, testing, reporting, recordkeeping, and monitoring, contained in Environmental Management Commission Standard 15A NCAC 02D .0524 "New Source Performance Standards" (NSPS) as promulgated in 40 CFR Part 60, Subpart OOOOb, "Standards of Performance for Crude Oil and Natural Gas Facilities For Which Construction, Modification, or Reconstruction Commenced After December 6, 2022," including Subpart A, "General Provisions."

- Each centrifugal compressor associated with the turbines (**ID nos. ES-TUR02 through ESTUR04**)
- Each fugitive emissions components affected facility (**ID Nos. I-SSEPFUG-02 through I-SSEPFUG-04, I-NCOMPFUG, and I-COMPFUG)**

Definitions and Nomenclature

b. For the purposes of this permit condition, the definitions and nomenclature contained in 40 CFR 60.5430b shall apply.

Emission Standards [15A NCAC 02Q .0308(a)]

c. For each centrifugal compressor affected facility which is a single centrifugal compressor, the Permittee shall comply with the GHG and VOC standards below each centrifugal compressor affected facility that uses dry seals shall comply with paragraph i. through iii. below or with the alternatives in paragraph iv. below.
   i. For each centrifugal compressor equipped with dry seals, the Permittee shall comply with the GHG and VOC requirements as specified in Paragraph (A) through (C) below, using volumetric flow rate as a surrogate. The Permittee shall determine the volumetric flow rate in accordance with paragraph c.ii below.
      (A) The volumetric flow rate per seal shall not exceed 10 standard cubic feet per minute (scfm) per seal. If the individual seals are manifolded to a single open-ended vent line, the volumetric flow rate shall not exceed the sum of the individual seals multiplied by 10 scfm. If the volumetric flow rate, measured in accordance with Section 2.2 B.1.c.ii below exceeds 10 scfm multiplied by the number of dry seals connected to the vent, the seals connected to the measured vent shall be repaired as provided in Section 2.2 B.1.c.iii below.
      (B) The Permittee shall conduct the first volumetric flow rate measurement from each affected centrifugal compressor equipped with a dry seal on or before 8,760 hours of operation after **May 7, 2024**, or on or before 8,760 hours of operation after startup, whichever date is later.
      (C) The Permittee shall conduct subsequent volumetric flow rate measurements from each affected centrifugal compressor equipped with dry seals on or before 8,760 hours of operation after the previous measurement which demonstrates compliance with the 10 scfm volumetric flow rate per seals. If the individual seals are manifolded to a single open-ended vent line, the volumetric flow rate shall not exceed the sum of the individual seals multiplied by 10 scfm.

      [40 CFR 60.5380b(a)(6)]
   ii. The Permittee shall determine the volumetric flow rate for each affected centrifugal compressor as specified in Paragraph (A) below.
      (A) The Permittee shall determine the volumetric flow rate from each affected centrifugal compressor equipped with dry seals as specified in paragraph (1) or (2) below. If the volumetric flow rate exceeds 10 scfm multiplied by the number of dry seals connected to the vent, the dry seals connected to the measured vent shall be repaired as provided in Section 2.2 B.1.c.iii below.
         (1) For centrifugal compressors equipped with dry seals in operating-mode or in standby-pressurized-mode, volumetric flow rate shall be determined at standard conditions from each centrifugal compressor equipped with dry seals using one of the methods specified in paragraphs (i) through (iii) below.
            (i) The Permittee may choose to use any of the methods set forth in 40 CFR 60.5386b(a) to screen for leaks/emissions. For the purposes of this subpart, when using any of the methods in 40 CFR 60.5386b(a), emissions are detected whenever a leak is detected according to the method. If emissions are detected using the methods set forth in 40 CFR 60.5386b(a), then the Permittee shall use one of the methods specified in Paragraph (ii) or (iii) below to determine the volumetric flow rate. If emissions are note detected using the methods in 40 CFR 60.5386b(a), then the Permittee may assume that the volumetric emissions are zero.

(ii) The Permittee may use a temporary or permanent flow meter according to methods set forth in 40 CFR 60.5386b(b).
(iii) The Permittee may use a high-volume sampler according to the method set forth in 40 CFR 60.5386b(c).

(2) For conducting measurements on manifolded groups of centrifugal compressors equipped with dry seals, the Permittee shall determine the volumetric flow rate from the dry seal centrifugal compressors as specified in paragraph (i) or (ii) below.
(i) The Permittee may measure at a single point in the manifold downstream of all centrifugal compressors equipped with dry seals inputs and, if practical, prior to comingling with other non-compressor emission sources.
(ii) Determine the volumetric flow rate at standard conditions from the common stack using one of the methods specified in Section 2.2 B.1.c.ii.(A)(1)(i) through (iii) above.

[40 CFR 60.5380b(a)(7)(iii)]

iii. The seal shall be repaired within 90 calendar days after the date of the volumetric emissions measurement that exceeds the applicable required flow rate per seal. The Permittee shall conduct follow-up volumetric flow rate measurements from seal vents using the methods specified in Section 2.2 B.1.c.ii above within 15 days after the repair to document that the rate has been reduced to less than the applicable required flow rate per seal. If the individual seals are manifolded to a single open-ended vent line or vent, the volumetric flow rate shall be reduced to less than the sum of the individual seals multiplied by the applicable required flow rate per seal specified in Section 2.2 B.1.c.i. Delay of repair will be allowed if the conditions in paragraph (A) or (B) below are met.
(A) If the repair of the wet or dry seal is technically infeasible, would require a vent blowdown, a compressor station shutdown, or would be unsafe to repair during operation of the unit, the repair shall be completed during the next scheduled compressor station shutdown for maintenance, after a scheduled vent blowdown, or within 2 years of the date of the volumetric emissions measurement that exceeds the applicable required flow rate per seal, whichever is earliest. A vent blowdown is the opening of one or more blowdown valves to depressurize major production and processing equipment, other than a storage vessel.
(B) If the repair requires replacement of the compressor seal or a part thereof, but the replacement cannot be acquired and installed within the repair timelines specified under this section due to the condition specified in Paragraph (1) below, the repair shall be completed in accordance with Paragraph (2) below and documented in accordance with 40 CFR 60.5420b(c)(4)(iii)(F) through (H).
(1) Seal or part thereof supplies had been sufficiently stocked but are depleted at the time of the required repair.
(2) The required replacement shall be ordered no later than 10 calendar days after the centrifugal compressor seal is added to the delay of repair list due to parts unavailability. The repair shall be completed as soon as practicable, but no later than 30 calendar days after receipt of the replacement seal or part, unless the repair requires a compressor station shutdown. If the repair requires a compressor station shutdown, the repair shall be completed in accordance with the timeframe specified in Section 2.2 B.1.c.iii.(A) above.

[40 CFR 60.5380b(a)(8)]

iv. As an alternative to meeting the requirements for centrifugal compressors with dry seals specified in Section 2.2 B.1.c.i through iii above, owners or operators are allowed to comply with the standard by meeting the requirements specified in Paragraphs (A) and (B), or (C) below.
(A) The Permittee shall reduce methane and VOC emissions from each centrifugal compressor dry seal system by 95.0 percent.
(B) If the Permittee chooses to use a control device to reduce emissions, they shall equip the dry seal system with a cover that meets the requirements of 40 CFR 60.5411b(b). The cover shall be connected through a closed vent system that meets the requirements of 40 CFR 60.5411b(a) and (c) and the closed vent system shall be routed to a control device that meets the conditions specified in 40 CFR 60.5412b.
(C) As an alternative to routing the closed vent system to a control device, the Permittee may route the closed vent system to a process. If routing the emissions to a process, the Permittee shall equip the dry seal system with a cover that meets the requirements of 40 CFR 60.5411b(b). The cover shall be connected through a closed vent system that meets the requirements of 40 CFR 60.5411b(a) and (c).

[40 CFR 60.5380b(a)(9)]

v. The Permittee shall demonstrate initial compliance with the standards that apply to centrifugal compressor affected facilities as required by 40 CFR 60.5410b(d).

vi. The Permittee shall demonstrate continuous compliance with the standards that apply to centrifugal compressor affected facilities as required by 40 CFR 60.5415b(d).

vii. The Permittee shall perform the reporting as required by 40 CFR 60.5420b(b)(1) and (5), and (b)(11) through (13), as applicable; and the recordkeeping as required by 40 CFR 60.5420b(c)(4), and (8) through (13), as applicable.
[40 CFR 60.5380b and 40 CFR 60.5365b(b)]

Fugitive Emissions Monitoring

d. For each fugitive emissions components affected facility, which is the collection of fugitive emissions components at a compressor station, the facility must comply with the requirements of 40 CFR 60.5397b(a) through (l) to reduce fugitive emissions of methane and VOC. The requirements of this section are independent of the cover and closed vent system requirements of 40 CFR 60.5411b.
[40 CFR 60.5365b(i) and 40 CFR 60.5397b]

Initial Compliance [15A NCAC 02Q .0308(a)]

e. The Permittee shall determine initial compliance with the standards for each affected facility using the following requirements.
   i. Except as otherwise provided in 40 CFR 60.5410b, the initial compliance period begins on May 7, 2024 for fugitive emissions components affected facilities and centrifugal compressor affected facilities, or upon initial startup, whichever is later, and ends no later than 1 year after the initial compliance date. The initial compliance period may be less than 1 full year. [40 CFR 60.5410b]
   ii. To demonstrate initial compliance with the GHG and VOC standards for a dry seal centrifugal compressor as required by 40 CFR 60.5380b, the Permittee shall comply with Paragraphs (A) through (C) below.
      (A) The Permittee shall maintain the volumetric flow rates for each affected centrifugal compressor as specified in Section (1) below.
         (1) For each affected dry seal centrifugal compressor, the Permittee shall maintain the volumetric flow rate at or below 10 scfm per seal. The Permittee shall conduct the initial annual volumetric measurement as required by 40 CFR 60.5380b(a)(6).
      (B) The Permittee shall submit the initial annual report for each centrifugal compressor affected facility as required in 40 CFR 60.5420b(b)(1) and (5) and (b)(11) through (13), as applicable.
      (C) The Permittee shall maintain the records as specified in 40 CFR 60.5420b(c)(4) and (c)(8) through (13), as applicable.
      [40 CFR 60.5410b(d)]
   iii. To achieve initial compliance with the GHG and VOC standards for fugitive emissions components affected facilities as required by 40 CFR 60.5397b, the Permittee shall comply with Paragraphs (A) through (E) below.
      (A) The Permittee shall develop a fugitive emissions monitoring plan as required in 40 CFR 60.5397b(b), (c), and (d).
      (B) The Permittee shall conduct an initial monitoring survey as required in 40 CFR 60.5397b(e) and (f).
      (C) The Permittee shall repair each identified source of fugitive emissions for each affected facility as required in 40 CFR 60.5397b(h).
      (D) The Permittee shall submit the initial annual report for each fugitive emissions components affected facility as required in 40 CFR 60.5420b(b)(1) and (9).
      (E) The Permittee shall maintain the records specified in 40 CFR 60.5420b(c)(14).
      [40 CFR 60.5410b(f) and (k)]

Continuous Compliance [15A NCAC 02Q .0308(a)]

f. For each dry seal centrifugal compressor complying with the requirements in Section 2.2 B.1.c.i above the Permittee shall demonstrate continuous compliance according to paragraphs i through iii below.
   i. The Permittee shall maintain volumetric flow rate at or below the flow rates specified in Section 2.2 B.1.c.i.(A) above for each centrifugal compressor equipped with dry seals. The Permittee shall conduct the required volumetric flow rate measurement of each dry seal centrifugal compressor in accordance with Section 2.2 B.1.c.i above on or before 8,760 hours of operation after the last volumetric flow rate measurement which demonstrates compliance with the volumetric flow rate specified in Section 2.2 B.1.c.i above for centrifugal compressor equipped with dry seals.
   ii. The Permittee shall submit the annual reports as required in 40 CFR 60.5420b(b)(1), (5), and (11)(i) through (iv) as applicable.
   iii. The Permittee shall maintain records as required in 40 CFR 60.5420b(c)(4), (8) through (10), and (12), as applicable.
   [40 CFR 60.5415b(d)]

g. For each fugitive emissions components affected facility, the Permittee shall demonstrate compliance with the requirements of 40 CFR 60.5397b(a) according to Sections i through iv below.
   i. *Monitoring*. The Permittee shall conduct periodic monitoring surveys as required in 40 CFR 60.5397b(e) and (g).
   ii. *Repairs*. The Permittee shall repair each identified source of fugitive emissions as required in 40 CFR 60.5397b(h).
   iii. *Reports*. The Permittee shall submit annual reports for fugitive emissions components affected facilities as required in 40 CFR 60.5420b(1) and (9).
   iv. *Records*. The Permittee shall maintain records as specified in 40 CFR 60.5420b(c)(14).
   [40 CFR 60.5415b(l)]

Covers and Closed Vent Systems Requirements [15A NCAC 02Q .0508(b) and 40 CFR 60.5411b and 5416b]

h. For each cover or closed vent system at a centrifugal compressor affected facility, the Permittee shall comply with the applicable requirements of Paragraphs i. through iii below.
   i. *Closed vent system requirements.*
      (A) The Permittee shall design the closed vent system to capture and route all gases, vapors, and fumes to a process or a control device that meets the requirements specified in 40 CFR 60.5412b(a) through (d).
      (B) Beginning January 22, 2027, or upon startup, whichever is later, the Permittee shall design and operate the closed vent system with no identifiable emissions as demonstrated by 40 CFR 60.5416b(a) and (b).
      (C) Bypass devices. The Permittee shall meet the requirements specified in Section 2.2 B.1.g.i.(C)(1) and (2) of this section if the closed vent system contains one or more bypass devices that could be used to divert all or a portion of the gases, vapors, or fumes from entering the control device or being routed to a process.
         (1) Except as provided in Section 2.2 B.1.g.i.(C)(2) of this section, the Permittee shall comply with either Section 2.2 B.1.g.i.(C)(1)(a) or (b) below for each bypass device.
            (a) The Permittee shall properly install, maintain, and operate a flow indicator at the inlet to the bypass device. The flow indicator shall be capable of taking periodic readings as specified in 40 CFR 60.5416b(a)(4)(i) and sound an alarm, or initiate notification via remote alarm to the nearest field office, when the bypass device is open such that the stream is being, or could be, diverted away from the control device or process, and sent to the atmosphere. The Permittee shall maintain records of each time the alarm is activated according to 40 CFR 60.5420b(c)(10).
            (b) The Permittee shall secure the bypass device valve installed at the inlet to the bypass device in the non-diverting position using a car-seal or a lock-and-key type configuration.
         (2) Low leg drains, high point bleeds, analyzer vents, open-ended valves or lines, and safety devices are not subject to the requirements of Section 2.2 B.1.g.i.(C)(1) above.
   [40 CFR 60.5411b(a)]
   ii. *Cover requirements for storage vessels and centrifugal compressors, and reciprocating compressors.*
      (A) The cover and all openings on the cover (*e.g.*, access hatches, sampling ports, pressure relief devices and gauge wells.) shall form a continuous impermeable barrier over the entire surface area of the liquid in the storage vessel or centrifugal compressor wet seal fluid degassing system, or reciprocating compressor rod packing emissions collection system.
      (B) Each cover opening shall be secured in a closed, sealed position (*e.g.*, covered by a gasketed lid or cap) whenever material is in the unit on which the cover is installed except during those times when it is necessary to use an opening as follows:
         (1) To add material to, or remove material from the unit (this includes openings necessary to equalize or balance the internal pressure of the unit following changes in the level of the material in the unit);
         (2) To inspect or sample the material in the unit;
         (3) To inspect, maintain, repair, or replace equipment located inside the unit; or
         (4) To vent liquids, gases, or fumes from the unit through a closed vent system designed and operated in accordance with the requirements of Section 2.2 B.1.h.i above to a control device or a process.
      (C) Each storage vessel thief hatch shall be equipped, maintained and operated with a weighted mechanism or equivalent, to ensure that the lid remains properly seated and sealed under normal operating conditions including such times when working, standing/breathing, and flash emissions may be generated. The Permittee shall select gasket material for the hatch based on composition of the fluid in the storage vessel and weather conditions.
      (D) Beginning January 22, 2027 or upon startup, whichever is later, the Permittee shall design and operate the cover with no identifiable emissions as demonstrated by 40 CFR 60.5416b(a) and (b), except when operated as provided in Section 2.2 B.1.h.ii.(B)(1) through (4) above.
      [40 CFR 60.5411b(b)]

iii. *Design requirements.*

(A) The Permittee shall conduct an assessment that the closed vent system is of sufficient design and capacity to ensure that all gases, vapors, and fumes from the affected facility are routed the control device or process and that the control device or process is of sufficient design and capacity to accommodate all emissions from the affected facility. The assessment shall be certified by a qualified professional engineer or an in-house engineer with expertise on the design and operation of the closed vent system in accordance with Section 2.2 B.1.h.iii.(A)(1) and (2) below.

(1) The Permittee shall provide the following certification, signed and dated by a qualified professional engineer or an in-house engineer: "I certify that the closed vent system design and capacity assessment was prepared under my direction or supervision. I further certify that the closed vent system and capacity assessment was conducted, and this report was prepared pursuant to the requirements of Subpart OOOOb of this part. Based on my professional knowledge and experience, and inquiry of personnel involved in the assessment, the certification submitted herein is true, accurate, and complete."

(2) The assessment shall be prepared under the direction or supervision of a qualified professional engineer or an in-house engineer who signs the certification in Paragraph (A)(1) above.

[40 CFR 60.5411b(c)]

i. For each closed vent system and cover at a centrifugal compressor affected facility, the Permittee shall comply with the applicable requirements of Paragraphs i and ii below.

i. *Inspections for closed vent systems, covers, and bypass devices*. If the Permittee installs a control device or routes emissions to a process, they shall inspect each closed vent system according to the procedures and schedule specified in Paragraphs (A) and (B) below, inspect each cover according the procedures and schedule specified in Paragraph (C) below, and inspect each bypass device according to the procedures of Paragraph (D) below, except as provided in Section 2.2 B.1.h.ii.(G) and (H) below.

(A) For each closed vent system joint, seam, or other connection that is permanently or semi-permanently sealed (*e.g.*, a welded joint between two sections of hard piping or a bolted and gasketed ducting flange), the Permittee shall meet the requirements specified in Section 2.2 B.1.h.i.(A)(1) through (3) below.

(1) Within the first 30 calendar days after January 22, 2027, or upon startup of the affected facility routing emissions through the closed vent system, whichever is later, the Permittee shall conduct an initial inspection according to the test methods and procedures specified in Section 2.2 B.1.h.ii below to demonstrate that the closed vent system operates with no identifiable emissions.

(2) The Permittee shall conduct annual visual inspections for defects that could result in air emissions. Defects include, but are not limited to, visible cracks, holes, or gaps in piping; loose connections; liquid leaks; or broken or missing aps or other closure devices. Beginning on the first annual inspection after January 22, 2027, and for all annual inspections thereafter, the Permittee shall monitor a component or connection using the test methods and procedures in Section 2.2 B.1.h.ii below to demonstrate that it operates with no identifiable emissions following any time the component is repaired or replaced or the connection is unsealed.

(3) The Permittee shall conduct AVO inspections in accordance with and at the same frequency as specified for fugitive emissions components affected facilities located at the same type of site as specified in 40 CFR 60.5397b(g).

(B) For closed vent system components other than those specified in Section 2.2 B.1.h.i.(A), the Permittee shall meet the requirements of Section 2.2 B.1.h.i.(B)(1) through (4) below.

(1) The Permittee shall conduct an initial inspection according to the test methods and procedures specified in Section 2.2 B.1.h.ii below within the first 30 calendar days after startup of the affected facility routing emissions through the closed vent system or January 22, 2027, whichever is later, to demonstrate that the closed vent system operates with no identifiable emissions.

(2) Beginning January 22, 2027, the Permittee shall conduct inspections according to the test methods, procedures, and frequencies specified in Section 2.2 B.1.h.ii below to demonstrate that the components or connections operate with no identifiable emissions.

(3) The Permittee shall conduct annual visual inspections for defects that could result in air emissions. Defects include, but are not limited to, visible cracks, holes, or gaps in ductwork; loose connections; liquid leaks; or broken or missing caps or other closure devices. Beginning January 22, 2027, the Permittee shall monitor a component or connection using the test methods and procedures in Section 2.2 B.1.h.ii below to demonstrate that it operates with no identifiable emissions following any time the component is repaired or replaced or the connection is unsealed.

(4) The Permittee shall conduct AVO inspections in accordance with and at the same frequency as specified for fugitive emissions components affected facilities located at the same type of site as specified in 40 CFR 60.5397b(g).

(C) For each cover, the Permittee shall meet the requirements of Section 2.2 B.1.h.i.(C)(1) through (4) below.

(1) Beginning January 22, 2027, the Permittee shall conduct the inspections specified in Section 2.2 B.1.h.i.(C)(3) and (4) below to identify defects that could result in air emissions and to ensure the cover operates with no identifiable emissions. Defects include, but are not limited to, visible cracks, holes, or gaps in the cover, or between the cover and the separator wall; broken, cracked, or otherwise damaged seals or gaskets on closure devices; and broken or missing hatches, access covers, caps, or other closure devices. In the case where the storage vessel is buried partially or entirely underground, the Permittee shall inspect only those portions of the cover that extend to or above the ground surface, and those connections that are on such portions of the cover (*e.g.*, fill ports, access hatches, gauge wells, etc.) and can be opened to the atmosphere.

(2) The Permittee shall conduct an initial inspection according to the test methods and procedures specified in Section 2.2 B.1.h.ii below, following installation of the cover to demonstrate that each cover operates with no identifiable emissions.

(3) The Permittee shall conduct AVO inspections in accordance with and at the same frequency as specified for fugitive emissions components affected facilities located at the same type of site as specified in 40 CFR 60.5397b(g).

(4) The Permittee shall conduct inspections according to the test methods, procedures, and schedules specified in Section 2.2 B.1.h.ii below to demonstrate that each cover operates with no identifiable emissions.

(D) For each bypass device, except as provided for in 40 CFR 60.5411b(a)(4)(ii), the Permittee shall meet the requirements of Section 2.2 B.1.h.i.(D)(1) or (2) below.

(1) The Permittee shall set the flow indicator to take a reading at least once every 15 minutes at the inlet to the bypass device that could divert the stream away from the control device and to the atmosphere.

(2) If the bypass device valve installed at the inlet to the bypass device is secured in the non-diverting position using a car-seal or lock-and-key type configuration, the Permittee shall visually inspect the seal or closure mechanism at least once every month to verify that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass device.

[40 CFR 60.5416b(a)]

ii. *No identifiable emissions test methods and procedures.* If the Permittee is required to conduct an inspection of a closed vent system and cover as specified in Section 2.2 B.1.h.i.(A), (B), or (C) above, the Permittee shall meet the requirements of §60.5416b (b)(1) through (9) after January 22, 2027.
[40 CFR 60.5416b]

Recordkeeping [15A NCAC 02Q .0308(a)]

j. The Permittee shall maintain the records identified as specified in 40 CFR 60.7(f) and in 40 CFR 60.5420b(c)(1) through (15), as applicable. All records required by this subpart shall be maintained either onsite or at the nearest local field office for at least 5 years. Any records required to be maintained by this subpart that are submitted electronically via the EPA's CEDRI may be maintained in electronic format. This ability to maintain electronic copies does not affect the requirement for facilities to make records, data, and reports available to a delegated air agency or the EPA as part of an on-site compliance evaluation. [40 CFR 60.5420b(c)]

Notifications and Reporting [15A NCAC 02Q .0308(a)]

k. The Permittee shall submit notifications according to paragraphs i. and ii. below if they own or operate one or more of the affected facilities specified in 40 CFR 60.5365b that was constructed, modified, or reconstructed during the reporting period. The Permittee shall submit the notification in Section ii below if they choose to use an alternative standard for fugitive emissions components in accordance with 40 CFR 60.5399b.

i. If the Permittee owns or operates a well, centrifugal compressor, reciprocating compressor, process controller, pump, storage vessel, collection of fugitive emissions components at a well site, or collection of fugitive emissions components at a compressor station affected facility, they are not required to submit the notifications required in 40 CFR 60.7(a)(1), (3), and (4) and 40 CFR 60.15(d).

ii. An owner or operator electing to comply with the provisions of 40 CFR 60.5399b for fugitive emissions components shall notify the Administrator of the alternative fugitive emissions standard selected within the annual report, as specified in 40 CFR 60.5420b(b)(9)(iii).

[40 CFR 60.5420b(a)]

iii. The Permittee shall submit annual reports containing the information specified in 40 CFR 60.5420b(b)(1) through (14), as applicable, following the procedure specified in 40 CFR 60.5420b(b)(15). The Permittee shall submit performance test reports as specified in 40 CFR 60.5420b(b)(12) or (13), if applicable. The initial annual report is due no later than 90 days after the end of the initial compliance period as determined according to 40 CFR 60.5410b. Subsequent annual reports are due no later than the same date each year as the initial annual report. If the Permittee owns or operates more than one affected facility, they may submit one report for multiple affected facilities provided the report contains all of the information required as specified in 40 CFR 60.5420b(b)(1) through (14). Annual reports may coincide with Title V reports as long as all the required elements of the annual report are included. The Permittee may arrange with the Administrator a common schedule on which reports required by this part may be submitted as long as the schedule does not extend the reporting period. [40 CFR 60.5420b(b)]

iiii. If the Permittee receives notification from the EPA of a "super-emitter event" as defined in 40 CFR 60.5371b, the Permittee shall take the actions listed in 40 CFR 60.5371b(d) and (e).

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

Applicability

a. The Permittee shall comply with all applicable provisions, including the requirements for emission standards, notification, testing, reporting, recordkeeping, and monitoring, contained in Environmental Management Commission Standard 15A NCAC 02D .0524 "New Source Performance Standards" (NSPS) as promulgated in 40 CFR Part 60, Subpart OOOOa, "Standards of Performance for Crude Oil and Natural Gas Facilities For Which Construction, Modification, or Reconstruction Commenced After September 18, 2015 and On or Before After December 6, 2022," including Subpart A, "General Provisions."

b. Pursuant to 40 CFR 60.5365a (b), the centrifugal compressor associated with the turbine **(ID No.ES-TUR01)** (i.e., *centrifugal compressor equipped with dry seals constructed between September 18, 2015, and December 6, 2022*) is subject to this subpart, however, has no requirements under 40 CFR 60 Subpart OOOOa. No further requirements apply for this source under 40 CFR 60 Subpart OOOOa and Subpart A.

c. For the following affected facilities, the Permittee has elected to comply with the fugitive emissions components affected facility requirements of 40 CFR 60 Subpart OOOOb as required in Section 2.2 B.1 above upon issuance of Permit No. 10589R01.

- Each fugitive emissions components affected facility (**ID Nos. I-NCOMPFUG, and I-COMPFUG)**

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

Emission Source ID No.	Emission Source Description[1,2]
I-TANK01	Natural gas condensate liquids storage tank (5,000-gallon capacity)
I-TANK02	Oily wastewater storage tank (5,000-gallon capacity)
I-TANK03	Oily wastewater sump tank (850-gallon capacity)
I-SSEP-FUG02 **NSPS OOOOb**	Piping Component Fugitives for Turbine 02 (ID No. ES-TUR02)
I-SSEP-FUG03 **NSPS OOOOb**	Piping Component Fugitives Turbine 03 (ID No. ES-TUR03)
I-SSEP-FUG04 **NSPS OOOOb**	Piping Component Fugitives Turbine 04 (ID No. ES-TUR04)
I-TUR01-CB	Compressor Blowdowns for Turbine 01 (ID No. ES-TUR01)
I-TUR02-CB	Compressor Blowdowns for Turbine 02 (ID No. ES-TUR02)
I-TUR03-CB	Compressor Blowdowns for Turbine 03 (ID No. ES-TUR03)
I-TUR04-CB	Compressor Blowdowns for Turbine 04 (ID No. ES-TUR04)
I-NGBD	Natural gas venting and blowdowns Yard
I-COMPFUG **NSPS OOOOb**	Piping component fugitives for Turbine 01 (ID No. ES-TUR01)
I-NCOMPFUG **NSPS OOOOb**	Piping component fugitives (domestic piping/valve yard)
I-TTLO	Tank Loadout to Truck Fugitives

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

[2] When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 02D .1100 “Control of Toxic Air Pollutants” or 02Q .0711 “Emission Rates Requiring a Permit.”

SECTION 4 - GENERAL CONDITIONS AND LIMITATIONS

1. In accordance with G.S. 143-215.108(c)(1), TWO COPIES OF ALL DOCUMENTS, REPORTS, TEST DATA, MONITORING DATA, NOTIFICATIONS, REQUESTS FOR RENEWAL, AND ANY OTHER INFORMATION REQUIRED BY THIS PERMIT shall be submitted to the:

   Regional Supervisor
   North Carolina Division of Air Quality
   Winston Salem Regional Office
   450 West Hanes Mill Road, Suite 300
   Winston-Salem, NC 27105
   336-776-9797

   For identification purposes, each submittal should include the facility name as listed on the permit, the facility identification number, and the permit number.

2. RECORDS RETENTION REQUIREMENT - In accordance with 15A NCAC 2D .0605, any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. These records must be kept on site for a minimum of 2 years, unless another time period is otherwise specified.

3. ANNUAL FEE PAYMENT - Pursuant to 15A NCAC 2Q .0203(a), the Permittee shall pay the annual permit fee within 30 days of being billed by the DAQ. Failure to pay the fee in a timely manner will cause the DAQ to initiate action to revoke the permit.

4. EQUIPMENT RELOCATION - In accordance with 15A NCAC 2Q .0301, a new air permit shall be obtained by the Permittee prior to establishing, building, erecting, using, or operating the emission sources or air cleaning equipment at a site or location not specified in this permit.

5. REPORTING REQUIREMENT - In accordance with 15A NCAC 2Q .0309, any of the following that would result in previously unpermitted, new, or increased emissions must be reported to the Regional Supervisor, DAQ:

   a. changes in the information submitted in the application regarding facility emissions;
   b. changes that modify equipment or processes of existing permitted facilities; 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.

6. In accordance with 15A NCAC 2Q .0309, this permit is subject to revocation or modification by the DAQ upon a determination that information contained in the application or presented in the support thereof is incorrect, conditions under which this permit was granted have changed, or violations of conditions contained in this permit have occurred. In accordance with G.S. 143-215.108(c)(1), the facility shall be properly operated and maintained at all times in a manner that will effectuate 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 cleaning device(s) and appurtenances.
7. CHANGES NOT REQUIRING PERMIT REVISIONS - Pursuant to 15A NCAC 02Q .0318, changes to the facility that are not exempt pursuant to 15A NCAC 02Q .0102 may be allowed without first modifying an applicable air permit if the change(s) meet(s) the requirements of 15A NCAC 02Q .0318(b)(1) through (b)(5) and the owner or operator notifies the Director in writing, using forms provided by the Division, seven calendar days before the change is made. Within 10 business days of receipt of the notice, the Division shall notify the owner or operator of its determination of whether the change(s) meet(s) the requirements of 15A NCAC 02Q .0318(b)(1) through (b)(5).

8. In accordance with G.S. 143-215.108(c)(1), this permit is nontransferable by the Permittee. Future owners and operators must obtain a new air permit from the DAQ.

9. In accordance with G.S. 143-215.108(c)(1), this issuance of this permit in no way absolves the Permittee of liability for any potential civil penalties which may be assessed for violations of State law which have occurred prior to the effective date of this permit.

10. In accordance with G.S. 143-215.108(c)(1), this permit does not relieve the Permittee of the responsibility of complying with all applicable requirements of any Federal, State, or Local water quality or land quality control authority.

11. In accordance with 15A NCAC 2D .0605, reports on the operation and maintenance of the facility shall be submitted by the Permittee to the Regional Supervisor, DAQ at such intervals and in such form and detail as may be required by the DAQ. Information required in such reports may include, but is not limited to, process weight rates, firing rates, hours of operation, and preventive maintenance schedules.

12. A violation of any term or condition of this permit shall subject the Permittee to enforcement pursuant to G.S. 143-215.114A, 143-215.114B, and 143-215.114C, including assessment of civil and/or criminal penalties.

13. Pursuant to North Carolina General Statute 143-215.3(a)(2), no person shall refuse entry or access to any authorized representative of the DAQ who requests entry or access for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such 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.

14. In accordance with G.S. 143-215.108(c)(1), this permit does not relieve the Permittee of the responsibility of complying with any applicable Federal, State, or Local requirements governing the handling, disposal, or incineration of hazardous, solid, or medical wastes, including the Resource Conservation and Recovery Act (RCRA) administered by the Division of Waste Management.

15. PERMIT RETENTION REQUIREMENT - In accordance with 15A NCAC 2Q .0110, the Permittee shall retain a current copy of the air permit at the site. The Permittee must make available to personnel of the DAQ, upon request, the current copy of the air permit for the site.

16. CLEAN AIR ACT SECTION 112(r) REQUIREMENTS - Pursuant to 15A NCAC 2D .2100 "Risk Management Program," if the Permittee is required to develop and register a risk management plan pursuant to Section 112(r) of the Federal Clean Air Act, then the Permittee is required to register this plan with the USEPA in accordance with 40 CFR Part 68.

17. GENERAL EMISSIONS TESTING AND REPORTING REQUIREMENTS - If emissions testing is required by this permit, or the DAQ, or if the Permittee submits emissions testing to the DAQ in support of a permit application or to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 2D .2600 and follow all DAQ procedures including protocol approval, regional notification, report submittal, and test results approval. Additionally, in accordance with 15A NCAC 2D .0605, the Permittee shall follow the procedures for obtaining any required audit sample and reporting those results.

Permit issued this the DDth of MM, 2025.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

Mark J. Cuilla, EIT, CPM
Chief, Permits Section
By Authority of the Environmental Management Commission