



ROY COOPER
Governor

MICHAEL S. REGAN
Secretary

MICHAEL A. ABRACZINSKAS
Director

February 27, 2018

Ms. Leslie Hartz
VP Pipeline Construction
Northampton Compressor Station
707 E. Main Street
Richmond, VA 23219

Subject: Air Permit No. 10466R00
Northampton Compressor Station
Pleasant Hill, Northampton County, North Carolina
Permit Class: Small
Facility ID# 6600169

Dear Ms. Hartz:

In accordance with your completed application received February 19, 2018, we are forwarding herewith Permit No. 10466R00 to Northampton Compressor Station, Pleasant Hill, Northampton County, North Carolina for the construction and operation of air emissions sources or air cleaning devices and appurtenances. Additionally, any emissions activities determined from your air permit application as meeting the exemption requirements contained in 15A NCAC 2Q .0102 have been listed for information purposes as an "ATTACHMENT" to the enclosed air permit. Please note the records retention requirements are contained in General Condition 2 of the General Conditions and Limitations.

Please note that pursuant to Section 19(d) of the Federal Natural Gas Act,

The United States Court of Appeals for the circuit in which a facility subject to section 717b of this title or section 717f of this title is proposed to be constructed, expanded, or operated shall have original and exclusive jurisdiction over any civil action for the review of an order or action of a . . . State administrative agency acting pursuant to Federal law to issue, condition, or deny any permit, license, concurrence, or approval . . . required under Federal law, other than the Coastal Zone Management Act of 1972 (16 U.S.C. 1451 et seq.). [ref. 15 U.S.C. § 717r(d)]

To the extent review of this permit is not governed by federal law, review will be governed by the North Carolina Administrative Procedure Act. Under G.S. 150B-23 of the North Carolina General Statutes, if any parts, requirements, or limitations contained in this 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. Such a request will stay the effectiveness of the entire permit. This hearing request must be in the form of a written petition, conforming to G.S. 150B-23, and filed with

the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, NC 27699-6714. The form for requesting a formal adjudicatory hearing may be obtained upon request from the Office of Administrative Hearings.

You may also request modification of your air permit through informal means pursuant to G.S. 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.

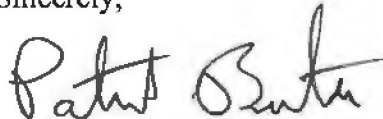
Unless exempted by a condition of this permit or the regulations, construction of new air pollution sources or air cleaning devices, or modifications to the sources or air cleaning devices described in this permit must be covered under a permit issued by the Division of Air Quality prior to construction. 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.

This permit shall be effective from February 27, 2018 until January 31, 2026, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

For PSD increment tracking purposes, PM10 emissions from this modification are increased by 4.18 pounds per hour.

Changes have been made to the permit stipulations. 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 Charles McEachern at 919-791-4200.

Sincerely,



Patrick Butler, P.E., Regional Supervisor
Division of Air Quality, NC DEQ

cmm
Enclosures

c: Raleigh Regional Office
Connie Horne, Cover letter only

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

DEPARTMENT OF ENVIRONMENTAL QUALITY

DIVISION OF AIR QUALITY

AIR PERMIT NO. 10466R00

Issue Date: February 27, 2018

Effective Date: February 27, 2018

Expiration Date: January 31, 2026

Replaces Permit: (new)

To construct and operate air emission source(s) and/or air cleaning device(s), and for the discharge of the associated air contaminants into the atmosphere in accordance with the provisions of Article 21B of Chapter 143, General Statutes of North Carolina (NCGS) as amended, and other applicable Laws, Rules and Regulations,

Northampton Compressor Station
718 Forest Road
Pleasant Hill, Northampton County, North Carolina
Permit Class: Small
Facility ID# 6600169

(the Permittee) is hereby authorized to construct and operate the air emissions sources and/or air cleaning devices and appurtenances described below:

Emission Source ID	Emission Source Description	Control System ID	Control System Description
CT-01 (NSPS)	natural gas-fired compressor turbine (Taurus 70-10802S, 96.0 million Btu per hour heat input, 11,107 horsepower ISO output)	CT-01-SCR, CT-01-OC	selective catalyst reduction in series with an oxidation catalyst
CT-02 (NSPS)	natural gas-fired compressor turbine (Centaur 50-6200LS, 60.0 million Btu per hour heat input, 6,276 horsepower ISO output)	CT-02-SCR, CT-02-OC	selective catalyst reduction in series with an oxidation catalyst
CT-03 (NSPS)	natural gas-fired compressor turbine (Centaur 40-4700S, 51.0 million Btu per hour heat input, 4,427 horsepower ISO output)	CT-03-SCR, CT-03-OC	selective catalyst reduction in series with an oxidation catalyst
EG-01 (NSPS,NESHAP)	natural gas-fired emergency generator (14.9 million Btu per hour heat input, 1,818 horsepower output, 1,300 kilowatts electric)	N/A	N/A
TK-1	pipeline liquids storage tank (1,000 gallon capacity)	N/A	N/A
TK-2	hydrocarbon waste storage tank (2,500 gallon capacity)	N/A	N/A
WH-01	natural gas-fired boiler (5.25 million Btu per hour heat input)	N/A	N/A
Fug-02 (NSPS)	piping leaks	N/A	N/A

Emission Source ID	Emission Source Description	Control System ID	Control System Description
Fug-01a	station suction blowdown	N/A	N/A
Fug-01b	station discharge blowdown 1	N/A	N/A
Fug-01c	station discharge blowdown 2	N/A	N/A

in accordance with the completed application 6600169.15A received February 19, 2018 including any plans, specifications, previous applications, and other supporting data, all of which are filed with the Department of Environmental Quality, Division of Air Quality (DAQ) and are incorporated as part of this permit.

This permit is subject to the following specified conditions and limitations including any TESTING, REPORTING, OR MONITORING REQUIREMENTS:

A. SPECIFIC CONDITIONS AND LIMITATIONS

- Any air emission sources or control devices authorized to construct and operate above must be operated and maintained in accordance with the provisions contained herein. The Permittee shall comply with applicable Environmental Management Commission Regulations, including Title 15A North Carolina Administrative Code (NCAC), Subchapter 2D .0202, 2D .0503, 2D .0516, 2D .0521, 2D .0524 (40 CFR 60, Subpart JJJJ, Subpart KKKK, Subpart OOOOa), 2D .0535, 2D .0540, 2D .0611, 2D .1100, 2D .1111 (40 CFR 63, Subpart ZZZZ), 2D .1806, 2Q .0102, 2Q .0309 and 2Q .0711.
- PERMIT RENEWAL AND EMISSION INVENTORY 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 2Q .0304(d) and (f). Pursuant to 15A NCAC 2Q .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. Also, at least 90 days prior to the expiration date of this permit, the Permittee shall submit the air pollution emission inventory report (with Certification Sheet) in accordance with 15A NCAC 2D .0202, pursuant to N.C. General Statute 143 215.65. The report shall be submitted to the Regional Supervisor, DAQ and shall document air pollutants emitted for the 2024 calendar year.
- PARTICULATE CONTROL REQUIREMENT - As required by 15A NCAC 2D .0503 "Particulates from Fuel Burning Indirect Heat Exchangers," particulate matter emissions from the fuel burning indirect heat exchangers shall not exceed the allowable emission rates listed below:

Source	Emission Limit (lbs/million Btu)
natural gas-fired boiler (5.25 million Btu per hour heat input) (WH-01)	0.60

4. SULFUR DIOXIDE CONTROL REQUIREMENT - As required by 15A NCAC 2D .0516 "Sulfur Dioxide Emissions from Combustion Sources," sulfur dioxide emissions from the combustion sources shall not exceed 2.3 pounds per million Btu heat input.
5. VISIBLE EMISSIONS CONTROL REQUIREMENT - As required by 15A NCAC 2D .0521 "Control of Visible Emissions," visible emissions from the emission sources, manufactured after July 1, 1971, shall not be more than 20 percent opacity when averaged over a six-minute period, except that six-minute periods averaging not more than 87 percent opacity may occur not more than once in any hour nor more than four times in any 24-hour period. However, sources which must comply with 15A NCAC 2D .0524 "New Source Performance Standards" or .1110 "National Emission Standards for Hazardous Air Pollutants" must comply with applicable visible emissions requirements contained therein.
6. 15A NCAC 2D .0524 "NEW SOURCE PERFORMANCE STANDARDS" - For the following equipment, 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 2D .0524 "New Source Performance Standards" (NSPS) as promulgated in 40 CFR Part 60, Subpart indicated below, and including Subpart A "General Provisions.

Emission Source(s)	Regulation
natural gas-fired emergency generator (14.9 million Btu per hour heat input, 1,818 horsepower output, 1,300 kilowatts electric) (ID No. EG-01)	Subpart JJJJ Standards of Performance for Stationary Spark Ignition Combustion Engines (SI ICE)

- a. Monitoring Requirements - As required by 15A NCAC 2D .0524, the following monitoring requirements shall apply:
 - i. If the emergency stationary SI ICE that is greater than or equal to 500 HP that was built on or after July 1, 2010, does not meet the standards applicable to non-emergency engines, the Permittee shall install a non-resettable hour meter. [60.4237(a)]
- b. Compliance Requirements - As required by 15A NCAC 2D .0524, the following compliance requirements shall apply:
 - i. The Permittee shall operate and maintain stationary SI ICE that achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. [60.4234]
 - ii. Owners and operators of stationary SI ICE who conduct performance tests shall follow the procedures in 40 CFR 60.4244. [60.4244]
 - iii. If the stationary SI ICE must comply with the emission standards specified in 40 CFR 60.4233(d) or (e), the Permittee shall demonstrate compliance

according to one of the methods specified in paragraphs A and B of this section. [60.4243(b)]

A. Purchasing an engine certified according to procedures specified in this subpart, for the same model year and demonstrating compliance according to one of the methods specified in paragraph I and II of this section. [60.4243(b)(1)]

I. If the certified stationary SI ICE and control device are operated and maintained 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 engine. If engine settings are adjusted according to and consistent with the manufacturer's instructions, the stationary SI ICE will not be considered out of compliance. [60.4243(a)(1)]

II. If the certified stationary SI ICE and control device are not operated and maintained according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine, and the Permittee shall demonstrate compliance according to the following, as appropriate. [60.4243(a)(2)]

(a) If the stationary SI ICE is less than 100 HP, the Permittee shall keep a maintenance plan and records of conducted maintenance to demonstrate compliance and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions, but no performance testing is required. [60.4243(a)(2)(i)]

(b) If the stationary SI ICE is greater than or equal to 100 HP and less than or equal to 500 HP, the Permittee shall 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 to demonstrate compliance. [60.4243(a)(2)(ii)]

(c) If the stationary SI ICE is greater than 500 HP, the Permittee shall 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. [60.4243(a)(2)(iii)]

B. Purchasing a non-certified engine and demonstrating compliance with the emission standards specified in 40 CFR 60.4233(d) or (e) and according to the requirements specified in 40 CFR 60.4244, as applicable, and according to the following: [60.4243(b)(2)]

I. If the stationary SI ICE is greater than 500 HP, the Permittee shall 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 and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance. [60.4243(b)(2)(ii)]

iv. For an emergency stationary ICE, the Permittee shall operate the emergency stationary ICE according to the requirements in paragraphs A through C of this section. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs A through C of this section, is prohibited. If the Permittee does not operate the engine according to the requirements in paragraphs A through C of this section, the engine will not be considered an emergency engine under this subpart and shall meet all requirements for non-emergency engines. [60.4243(d)]

A. There is no time limit on the use of emergency stationary ICE in emergency situations. [60.4243(d)(1)]

B. The Permittee may operate the emergency stationary ICE for any combination of the purposes specified in paragraph I of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph C of this section counts as part of the 100 hours per calendar year allowed by this paragraph B. [60.4243(d)(2)]

I. 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 Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.
[60.4243(d)(2)(i)]

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 B. Except as provided in paragraph I of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.
[60.4243(d)(3)]

I. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:
[60.4243(d)(3)(i)]

(a) The engine is dispatched by the local balancing authority or local transmission and distribution system operator; [60.4243(d)(3)(i)(A)]

(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; [60.4243(d)(3)(i)(B)]

(c) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines; [60.4243(d)(3)(i)(C)]

(d) The power is provided only to the facility itself or to support the local transmission and distribution system [60.4243(d)(3)(i)(D)]; and

(e) The Permittee 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 Permittee. [60.4243(d)(3)(i)(E)]

- v. For a stationary SI ICE that is natural gas fired, the Permittee may operate this engine using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but shall keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, the Permittee is required to conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233. [60.4243(e)]
- c. Recordkeeping Requirements - As required by 15A NCAC 2D .0524, the following recordkeeping requirements shall apply:
 - i. The Permittee shall keep records as follows: [60.4245]
 - A. All notifications submitted to comply with this subpart and all documentation supporting any notification; [60.4245(a)(1)]
 - B. Maintenance conducted on the engine; [60.4245(a)(2)]
 - C. If the stationary SI ICE 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 [60.4245(a)(3)]; and
 - D. If the stationary SI ICE is not a certified engine or is a certified engine operating in a non-certified manner and subject to 40 CFR 60.4243(a)(2), documentation that the engine meets the emission standards. [60.4245(a)(4)]
 - ii. For non-certified engines greater than 25 HP, a copy of the maintenance plan and conducted maintenance. [60.4243(a)(1)]
 - iii. Copies of any performance testing required under this Subpart. [60.4245(d)]
 - iv. All records required under this section shall be maintained for a period of two years following the date of such record. All records shall be kept on-site and made available to DAQ personnel upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if recordkeeping requirements are not maintained. [40 CFR 60.7(f)]
- d. Reporting Requirements - As required by 15A NCAC 2D .0524, the following reporting requirements shall apply:
 - i. If the SI ICE is subject to performance testing, the testing shall be conducted according to the requirements of 40 CFR 60.4244, and the Permittee shall submit a copy of each performance test within 60 days after the test has been completed. [60.4243(a)(2), (b)(2), (e), and (f)]
 - ii. For stationary SI ICE greater than or equal to 500 HP that have not been certified by an engine manufacturer to meet the emission standards in 40

CFR 60.4231, the Permittee shall submit an initial notification as required in 40 CFR 60.7(a)(1). The notification shall include the information in paragraphs (A) through (E) of this section. [60.4245(c)]

- A. Name and address of the owner or operator; [60.4245(c)(1)]
 - B. The address of the affected source; [60.4245(c)(2)]
 - C. Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement; [60.4245(c)(3)]
 - D. Emission control equipment; [60.4245(c)(4)] and
 - E. Fuel used. [60.4245(c)(5)]
- iii. For an emergency stationary SI ICE with a maximum engine power more than 100 HP that operates for non-emergency situations as described above, the Permittee shall submit an annual report according to the requirements in paragraphs A through C of this section. [60.4245(e)]
- A. The report shall contain the following information:
 - I. Company name and address where the engine is located.
 - II. Date of the report and beginning and ending dates of the reporting period.
 - III. Engine site rating and model year.
 - IV. Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
 - V. Hours spent for operation for non-emergency situations as described above, including the date, start time, and end time for engine operation for these non-emergency situations. The report shall also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.
 - B. The first annual report shall cover the calendar year 2015 and shall be submitted no later than March 31, 2016. Subsequent 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 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.

7. **15A NCAC 2D .0524 "NEW SOURCE PERFORMANCE STANDARDS"** - For the following equipment, 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 2D .0524 "New Source Performance Standards" (NSPS) as promulgated in 40 CFR 60, Subpart indicated below, and including Subpart A "General Provisions."

Emission Source(s)	Regulation
natural gas-fired compressor turbine (Taurus 70-10802S, 96.0 million Btu per hour heat input, 11,107 horsepower ISO output) (CT-01)	Subpart KKKK -- Standards of Performance for Stationary Combustion Turbines
natural gas-fired compressor turbine (Centaur 50-6200LS, 60.0 million Btu per hour heat input, 6,276 horsepower ISO output) (CT-02)	
natural gas-fired compressor turbine (Centaur 40-4700S, 51.0 million Btu per hour heat input, 4,427 horsepower ISO output) (CT-03)	

- a. **NSPS Reporting Requirements** - In addition to any other notification requirements to the Environmental Protection Agency (EPA), the Permittee is required to NOTIFY the Regional Supervisor, DAQ, in WRITING, of the following:
- The actual date of initial start-up of an affected source, postmarked within 15 days after such date;
- b. **NSPS Emissions Limitations** - As required by 15A NCAC 2D .0524, the following permit limits shall not be exceeded:

Affected Source(s)	Pollutant	Emission Limit
natural gas-fired compressor turbine (Taurus 70-10802S, 96.0 million Btu per hour heat input, 11,107 horsepower ISO output) (CT-01)	NO _x	25 ppm at 15% O ₂
natural gas-fired compressor turbine (Centaur 50-6200LS, 60.0 million Btu per hour heat input, 6,276 horsepower ISO output) (CT-02)		
natural gas-fired compressor turbine (Centaur 40-4700S, 51.0 million Btu per hour heat input, 4,427 horsepower ISO output) (CT-03)	SO ₂	natural gas used shall have less than 20 grains of sulfur per 100 standard cubic feet and have potential emission less than 0.060 pounds SO ₂ per million Btu heat input

- c. **NSPS Recordkeeping** – The Permittee shall maintain records of the fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the fuel, specifying that the maximum total sulfur content of the natural

gas used is 20 grains of sulfur or less per 100 standard cubic feet and has potential sulfur emissions of less than 0.060 pounds SO₂ per million Btu heat input.

- d. **NSPS Performance Testing** - As required by 15A NCAC 2D .0524, the following performance tests shall be conducted:

Affected Source(s)	Pollutant	Test Method	Test Frequency
natural gas-fired compressor turbine (Taurus 70-10802S, 96.0 million Btu per hour heat input, 11,107 horsepower ISO output) (CT-01)	NO _x	Methods 7E or 20	Annual/Biennial
natural gas-fired compressor turbine (Centaur 50-6200LS, 60.0 million Btu per hour heat input, 6,276 horsepower ISO output) (CT-02)	SO ₂	Valid Fuel Tariff	N/A
natural gas-fired compressor turbine (Centaur 40-4700S, 51.0 million Btu per hour heat input, 4,427 horsepower ISO output) (CT-03)			

- i. All performance tests shall be conducted in accordance with EPA Reference Methods, contained in 40 CFR 60, Appendix A.
- ii. The EPA Administrator retains the exclusive right to approve equivalent and alternative test methods, continuous monitoring procedures, and reporting requirements.
- iii. Within 60 days after achieving the maximum production rate at which the equipment will be operated, but not later than 180 days after the initial start-up of the equipment, the Permittee shall conduct the required performance test(s) and submit two copies of a written report of the test(s) to the Regional Supervisor, DAQ.
- iv. After the initial performance test, subsequent NO_x performance tests shall be conducted on an annual basis (no more than 14 calendar months following the previous performance test).
 - A. 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, you may reduce the frequency of subsequent performance tests to once every 2 years (no more than 26 calendar months following the previous performance test).
 - B. If the results of any subsequent performance test exceed 75 percent of the NO_x emission limit for the turbine, you must resume annual performance tests.

- v. The Permittee shall be responsible for ensuring, within the limits of practicality, that the equipment or process being tested is operated at or near its maximum normal production rate or at a lesser rate if specified by the Director or his delegate.
 - vi. All associated testing costs are the responsibility of the Permittee.
 - vii. At least 45 days prior to performing any required emissions testing, the Permittee must submit two copies of a testing protocol to the Regional Supervisor, DAQ for review and approval. All testing protocols must be approved by the DAQ prior to performing tests.
 - viii. To afford the Regional Supervisor, DAQ, the opportunity to have an observer present, the Permittee shall PROVIDE the Regional Office, in WRITING, at least 15 days notice of any required performance test(s).
8. 15A NCAC 2D .0524 "NEW SOURCE PERFORMANCE STANDARDS" - For the fugitive equipment leaks (FUG-02), 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 2D .0524 "New Source Performance Standards" (NSPS) as promulgated in 40 CFR 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 including Subpart A "General Provisions."
9. NOTIFICATION REQUIREMENT - As required by 15A NCAC 2D .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.

10. **FUGITIVE DUST CONTROL REQUIREMENT** - As required by 15A NCAC 2D .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 2D .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, stock pile working, plant parking lots, and plant roads (including access roads and haul roads).

11. **Selective Catalytic Reduction and Oxidation Catalyst REQUIREMENTS** - As required by 15A NCAC 2D .0611, NO_x, CO, and VOC emissions shall be controlled as described in the permitted equipment list.
- a. **Inspection and Maintenance Requirements** - To comply with the provision of this permit and ensure that emissions do not exceed the regulatory limits, the Permittee shall perform periodic inspections and maintenance (I&M) as recommended by the manufacturer. In addition, the Permittee shall perform an annual inspection of the pollution control device.
 - b. **Recordkeeping Requirements** - The results of all inspections and any variance from manufacturer's recommendations or from those given in this permit (when applicable) shall be investigated with corrections made and dates of actions recorded in a logbook. Records of all maintenance activities shall be recorded in the logbook. The logbook (in written or electronic format) shall be kept on-site and made available to DAQ personnel upon request.

12. **TOXIC AIR POLLUTANT EMISSIONS LIMITATION AND REPORTING REQUIREMENT** - Pursuant to 15A NCAC 2D .1100 "Control of Toxic Air Pollutants," and in accordance with the approved application for an air toxic compliance demonstration, the following permit limits shall not be exceeded:

Affected Source(s)	Toxic Air Pollutant	Emission Limit
natural gas-fired compressor turbine (Taurus 70-10802S, 96.0 million Btu per hour heat input, 11,107 horsepower ISO output) (CT-01)	Benzene (71-43-2)	6.08 pounds per year
	Formaldehyde (50-00-0)	4.70 pounds per hour
	Hexane, n- (110-54-3)	0.24 pounds per day fugitive and 7.37 pounds per day during blowdown
natural gas-fired compressor turbine (Centaur 50-6200LS, 60.0 million Btu per hour heat input, 6,276 horsepower ISO output) (CT-02)	Benzene (71-43-2)	3.42 pounds per year
	Formaldehyde (50-00-0)	1.17 pounds per hour
	Hexane, n- (110-54-3)	8.38 pounds per day during blowdown

natural gas-fired compressor turbine (Centaur 50-6200LS, 60.0 million Btu per hour heat input, 6,276 horsepower ISO output) (CT-02), natural gas-fired compressor turbine (Centaur 40-4700S, 51.0 million Btu per hour heat input, 4,427 horsepower ISO output) (CT-03)	Hexane, n- (110-54-3)	0.48 pounds per day fugitive emission, combined
natural gas-fired compressor turbine (Centaur 40-4700S, 51.0 million Btu per hour heat input, 4,427 horsepower ISO output) (CT-03)	Hexane, n- (110-54-3)	14.3 pounds per day during blowdown
	Benzene (71-43-2)	3.00 pounds per year
	Formaldehyde (50-00-0)	1.16 pounds per hour
natural gas-fired emergency generator (14.9 million Btu per hour heat input, 1,818 horsepower output, 1,300 kilowatts electric) (EG-01)	Benzene (71-43-2)	4.49 pounds per year
	Formaldehyde (50-00-0)	1.36 pounds per hour
	Hexane, n- (110-54-3)	0.0494 pounds per day
natural gas-fired boiler (5.25 million Btu per hour heat input) (WH-01)	Benzene (71-43-2)	0.0946 pounds per year
	Formaldehyde (50-00-0)	3.86E-04 pounds per hour
	Hexane, n- (110-54-3)	0.222 pounds per day
pipeline liquids storage tank (1,000 gallon capacity) (TK-1)	Benzene (71-43-2)	2.08 pounds per year
	Hexane, n- (110-54-3)	0.0480 pounds per day
hydrocarbon waste storage tank (2,500 gallon capacity) (TK-2)	Benzene (71-43-2)	0.0440 pounds per year
	Hexane, n- (110-54-3)	1.20E-04 pounds per day
station suction blowdown (Fug-01a)	Hexane, n- (110-54-3)	36.2 pounds per day
station discharge blowdown 1 (Fug-01b)	Hexane, n- (110-54-3)	25.9 pounds per day
station discharge blowdown 2 (Fug-01c)	Hexane, n- (110-54-3)	20.6 pounds per day

13. 15A NCAC 2D .1111 "MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY"- For the natural gas-fired emergency generator (14.9 million Btu per hour heat input, 1,818 horsepower output, 1,300 kilowatts electric) (ID No. EG-01), classified as **new** stationary RICE located at an area source of HAP emissions, 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 2D .1111, as promulgated in 40 CFR 63, Subpart ZZZZ - "National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines," including Subpart A "General Provisions."

- a. In accordance with 40 CFR §63.6590(c)(1), this source(s) shall meet the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A by meeting the requirements of 40 CFR 60 Subpart IIII for compression ignition engines or 40 CFR 60 Subpart JJJJ for spark ignition engines. No further requirements apply for such engines under 40 CFR 63 Subpart ZZZZ or Subpart A.

14. CONTROL AND PROHIBITION OF ODOROUS EMISSIONS - As required by 15A NCAC 2D .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.
15. Federal and State Rules Applicable to Sources Exempted from Air Permitting Requirements - Your facility is subject to the following federal and state rules:

40 CFR 60 - NSPS -- Subpart JJJJ -- Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

40 CFR 63 - NESHAP/MACT -- Subpart ZZZZ -- Reciprocating Internal Combustion Engines

which are applicable to some of the emission sources at your facility listed on the "Insignificant/Exempt Activities" list attached to this permit. The purpose of this permit condition is to inform you of your compliance obligations to these applicable rules as they are enforceable.

16. NOTIFICATION REQUIREMENT - In accordance with 15A NCAC 2Q .0309, this permit may be revoked unless natural gas-fired compressor turbine (Taurus 70-10802S, 96.0 million Btu per hour heat input, 11,107 horsepower ISO output) (ID No. CT-01), natural gas-fired compressor turbine (Centaur 50-6200LS, 60.0 million Btu per hour heat input, 6,276 horsepower ISO output) (ID No. CT-02), natural gas-fired compressor turbine (Centaur 40-4700S, 51.0 million Btu per hour heat input, 4,427 horsepower ISO output) (ID No. CT-03) and natural gas-fired emergency generator (14.9 million Btu per hour heat input, 1,818 horsepower output, 1,300 kilowatts electric) (ID No. EG-01) and appurtenances are constructed in accordance with the approved plans, specifications, and other supporting data. Within 15 days after start-up of the new or modified facilities, the Permittee shall provide written notice of the start-up to the Regional Supervisor, DAQ.

Any existing equipment being replaced is permitted to operate in compliance until the replacement equipment is operational.

17. TOXIC AIR POLLUTANT EMISSIONS LIMITATION REQUIREMENT - Pursuant to 15A NCAC 2Q .0711 "Emission Rates Requiring a Permit," for each of the below listed toxic air pollutants (TAPs), the Permittee has made a demonstration that facility-wide actual emissions, where all emission release points are unobstructed and vertically oriented, do not exceed the Toxic Permit Emission Rates (TPERs) listed in 15A NCAC 2Q .0711(b). The facility shall be operated and maintained in such a manner that emissions of any listed TAPs from the facility, including fugitive emissions, will not exceed TPERs listed in 15A NCAC 2Q .0711(b).

- a. A permit to emit any of the below listed TAPs shall be required for this facility if actual emissions from all sources will become greater than the corresponding TPERs.

- b. PRIOR to exceeding any of these listed TPERs, the Permittee shall be responsible for obtaining a permit to emit TAPs and for demonstrating compliance with the requirements of 15A NCAC 2D .1100 "Control of Toxic Air Pollutants".
- c. In accordance with the approved application, the Permittee shall maintain records of operational information demonstrating that the TAP emissions do not exceed the TPERs as listed below:

Pollutant	Carcinogens (lb/yr)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
Acetaldehyde (75-07-0)				28.43
Acrolein (107-02-8)				0.08
Ammonia (as NH ₃) (7664-41-7)				2.84
Benzo(a)pyrene (Component of 83329/POMTV & 56553/7PAH) (50-32-8)	3.044			
Beryllium Metal (unreacted) (Component of BEC) (7440-41-7)	0.378			
Butadiene, 1,3- (106-99-0)	40.585			
Cadmium Metal, elemental, unreacted (Component of CDC) (7440-43-9)	0.507			
Carbon tetrachloride (56-23-5)	618.006			
Chlorobenzene (108-90-7)		92.7		
Chloroform (67-66-3)	396.631			
Ethylene dibromide (dibromoethane) (106-93-4)	36.896			
Ethylene dichloride (1,2-dichloroethane) (107-06-2)	350.511			
Mercury, vapor (Component of HGC) (7439-97-6)		0.025		
Methylene chloride (75-09-2)	2213.752		1.79	
Nickel metal (Component of NIC) (7440-02-0)		0.3		
Phenol (108-95-2)			1.00	
Styrene (100-42-5)			11.16	
Tetrachloroethane, 1,1,2,2- (79-34-5)	581.110			
Toluene (108-88-3)		197.96		58.97
Vinyl chloride (75-01-4)	35.051			

Xylene (mixed isomers) (1330-20-7)		113.7		68.44
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B. 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
Raleigh Regional Office
3800 Barrett Drive
Raleigh, NC 27609
919-791-4200

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 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 cleaning device(s) and appurtenances.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.

15. 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.
16. PREVENTION OF ACCIDENTAL RELEASES - GENERAL DUTY - Pursuant to Title I Part A Section 112(r)(1) of the Clean Air Act "Hazardous Air Pollutants - Prevention of Accidental Releases - Purpose and General Duty," 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. **This condition is federally-enforceable only.**
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.

Permit issued this the 27th of February, 2018.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION



Patrick Butler, P.E.

Regional Supervisor

By Authority of the Environmental Management Commission

Air Permit No. 10466R00

Insignificant / Exempt Activities

Source	Exemption Regulation	Source of TAPs?	Source of Title V Pollutants?
I-TK-3 – aqueous ammonia tank (13,400 gallon capacity)	2Q .0102 (g)(4)	Yes	No
I-EG-02 - natural gas-fired emergency generator (148.9 horsepower, 100 kilowatts electric, NSPS JJJJ, NESHAPS ZZZZ)	2Q .0102 (h)(5)	Yes	Yes
I-TK-4 - odorant storage tank (6,000 gallon capacity)	2Q .0102 (g)(14)(B)	Yes	Yes

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1. Because an activity is exempted from being required to have a permit or permit modification 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 2D .1100 "Control of Toxic Air Pollutants" or 2Q .0711 "Emission Rates Requiring a Permit."
 3. Sample permit conditions showing the regulatory requirements for exempt sources subject to NESHAP, NSPS, and NCAC rules may be found here:
<https://deq.nc.gov/about/divisions/air-quality/air-quality-permits/specific-permit-conditions-regulatory-guide>

