ROY COOPER
Governor
ELIZABETH S. BISER
Secretary
MICHAEL ABRACZINSKAS
Director

NORTH CAROLINA
Environmental Quality

November 14, 2023

Mr. Robert Lowder
Director, Environmental Management Division
MCIEAST-Marine Corps Base Camp Lejeune
12 Post Lane
G-F/EMD/EQB
Camp Lejeune, NC 28547

SUBJECT: Air Quality Permit No. 06591T44
Facility ID: 6700011
MCIEAST-Marine Corps Base Camp Lejeune
Camp Lejeune, North Carolina
Onslow County
Fee Class: Title V
PSD Class: Major

Dear Mr. Lowder:

In accordance with your Air Permit Application for a minor modification of your Title V permit, we are forwarding herewith Air Quality Permit No. 06591T44 authorizing the construction and operation, of the emission sources and associated air pollution control devices specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 02Q .0503(8) have been identified as such in the permit. Please note the requirements for the annual compliance certification are contained in General Condition P in Section 4. The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.

These emission sources (ID Nos. A-WC-XX-01, B-BB-A72-04, B-BB-A72-05, and C-AS-3900-05) are listed as a minor modification per 15A NCAC 02Q .0515. The annual compliance certification as described in General Condition P is required. Unless otherwise notified by DAQ, the affected terms of this permit (excluding the permit shield as described General Condition R) for these emission sources shall become final on January 13, 2024. Until this date, the affected permit terms herein reflect the proposed operating language that the Permittee shall operate these emission sources pursuant to 15A NCAC 02Q .0515(f).

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

If any parts, requirements, or limitations contained in this Air Quality Permit are unacceptable to you, you have the right to file a petition for contested case hearing in the North Carolina Office of Administrative Hearings. Information regarding the right, procedure, and time limit for permittees and other

persons aggrieved to file such a petition is contained in the attached "Notice Regarding the Right to Contest A Division of Air Quality Permit Decision."

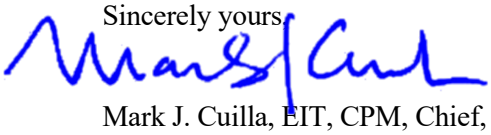
The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to existing emission source(s) and air pollution control device(s) described in this permit must be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction unless the Permittee has fulfilled the requirements of NCGS 143-215.108A(b) and received written approval from the Director of the Division of Air Quality to commence construction. Failure to receive an Air Quality Permit or written approval prior to commencing construction is a violation of NCGS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in NCGS 143-215.114A and 143-215.114B.

Onslow County has not triggered increment tracking under PSD for any pollutants, so no tracking is required.

This Air Quality Permit shall be effective from November 14, 2023 until November 30, 2024, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

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

Sincerely yours,



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

Enclosure

c: Brad Akers, EPA Region 4 (Permit)
Laserfiche (6700011)

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

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

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

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

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

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

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

* * *

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

Summary of Changes to Permit

The following changes were made to Air Permit No. 06591T43*:

Page No.	Section	Description of Changes
Throughout	Throughout	• Updated dates and permit numbers. • Fixed/updated formatting where applicable. Changes to formatting are only for clarity and conformity with DAQ's other Title V permits and are not intended to affect the Permittee's compliance requirements.
4	1	• Added the following sources to the list of Permitted Emission Sources at the Permittee's request: o A-WC-XX-01 o B-BB-A72-04 o B-BB-A72-05 o C-AS-3900-05 • Moved the following sources to the list of Permitted Emission Sources: o A-REMED o C-REMED This change was made to reflect changes to 40 CFR Part 63 Subpart GGGGG and is not the result of any change made by the Permittee.
12	2.1 B	• Added A-WC-XX-01 to this section.
23	2.1 G	• Added C-AS-3900-05 to this section.
26	2.1 G.4	• Added paragraph 2.1 G.4.b to this section. This paragraph explains the definition of "non-HAP material" and discusses the limits of "low-volume coatings." This change was made to reflect changes to 40 CFR Part 63 Subpart GG and is not the result of any change made by the Permittee.
39	2.1 L	• Added this section. • Added requirements for B-BB-A72-04 and B-BB-A72-05 to this section.
40	2.1 M	• Added this section. • Added requirements for A-REMED and C-REMED to this section.
45	3	• Made the following changes to the list of insignificant activities at the Permittee's request: o Removed I-C-RR-44-01 o Added one small emergency generator to the group I-A-EGEN-NEW o Added I-B-BB-A72-06 • Moved the following sources to the list of Permitted Emission Sources: o I-A-REMED o I-C-REMED
52	4	• Updated General Conditions to v7.0.

*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
06591T44	06591T43	January 13, 2024	November 30, 2024

NOTE: Per General Condition K, a permit application for the renewal of this Title V permit shall be submitted no later than May 31, 2024.

*The effective date listed above applies only to changes made as a result of this modification. All other terms and conditions of this permit are applicable as of the issuance date.

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:	**MCIEAST-Marine Corps Base Camp Lejeune**
Facility ID:	**6700011**
SIC Code:	**9711**
NAICS Code:	**92811**
Facility Site Location:	**12 Post Lane**
City, County, State, Zip:	**Camp Lejeune, Onslow County, North Carolina 28547**
Mailing Address:	**12 Post Lane**
City, State, Zip:	**Camp Lejeune, North Carolina 28547**
Application Number:	**6700011.23A**
Complete Application Date:	**October 2, 2023**
Division of Air Quality, Regional Office Address:	**Wilmington Regional Office 127 Cardinal Drive Extension Wilmington, North Carolina 28405**

Permit issued this the 14th day of November 2023.

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

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
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	Ref. Section
A-NH-100-01, and A-NH-100-02 **MACT DDDDD**	Two No. 2 fuel oil/natural gas-fired boilers (14.645 million Btu heat input capacity each)	None	None	A
A-NH-100-05A **MACT DDDDD**	No. 2 fuel oil/natural gas-fired boiler (9.9 million Btu per hour heat input capacity)	None	None	A
A-FC-540-01 **MACT ZZZZ**	Diesel-fired emergency generator (1,500 kW)	None	None	B
A-HP-128-01 **MACT ZZZZ, NSPS IIII**	Diesel-fired emergency generator (600 kW)	None	None	B
A-HP-227-01 **MACT ZZZZ, NSPS IIII**	Diesel-fired emergency generator (810 kW)	None	None	B
A-HP-24-03 **MACT ZZZZ, NSPS IIII**	Diesel-fired emergency generator (750 kW)	None	None	B
A-HP-24-04 **(MACT ZZZZ, NSPS IIII)**	Diesel-fired emergency generator (750 kW)	None	None	B
A-HP-590-01 **MACT ZZZZ**	Diesel-fired emergency generator (750 kW)	None	None	B
A-MP-455-01B **MACT ZZZZ, NSPS IIII**	Diesel-fired emergency generator (1,250 kW) (1,848 bhp)	None	None	B
A-NH-100-10B **MACT ZZZZ**	Diesel-fired emergency generator (1,495 bhp)	None	None	B
A-NH-100-11B **MACT ZZZZ**	Diesel-fired emergency generator (1,495 bhp)	None	None	B
A-NH-100-12B **MACT ZZZZ**	Diesel-fired emergency generator (1,495 bhp)	None	None	B
A-NH-100-14 **MACT ZZZZ, NSPS IIII**	Diesel-fired emergency generator (910 kW)	None	None	B
A-WC-PT3C-01 **MACT ZZZZ, NSPS IIII**	Diesel-fired emergency generator (1,000 kW) (1,500 bhp)	None	None	B
C-AS-4013-01 **MACT ZZZZ, NSPS IIII**	Diesel-fired emergency generator (1,000 kW)	None	None	B
C-RR-134-01 **MACT ZZZZ, NSPS IIII**	Diesel-fired Emergency Generator (400 kW) (591 hp)	None	None	B
C-RR-400-05 **MACT ZZZZ, NSPS IIII**	Diesel-fired emergency generator (1,250 kW) (1848 hp)	None	None	B
C-RR-406-01 **MACT ZZZZ, NSPS IIII**	Diesel-fired emergency generator (2,500 kW)	None	None	B

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description	Ref. Section
C-RR-425-01 **MACT ZZZZ, NSPS IIII**	Diesel-fired Emergency Generator (400 kW)	None	None	B
C-RR-430-05 **MACT ZZZZ, NSPS IIII**	Diesel-fired emergency generator (800 kW)	None	None	B
C-RR-440-01 **MACT ZZZZ, NSPS IIII**	Diesel-fired emergency generator (200 kW) (311 hp)	None	None	B
A-HP-24C-01 **MACT ZZZZ, NSPS IIII**	Diesel-fired Emergency Generator (150 kW)	None	None	B
A-HP-1230-3 **MACT ZZZZ, NSPS IIII**	Diesel-fired emergency generator (1,000 kW) (1,474 hp)	None	None	B
A-HP-S185-01 **MACT ZZZZ, NSPS IIII**	Limited-use, diesel-fired peak shaving generator (2,000 kW)	None	None	C
A-FC-280-24 **MACT ZZZZ, NSPS IIII**	Diesel-fired generator (60 kW)	None	None	D
A-FC-280-26 **MACT ZZZZ, NSPS IIII**	Diesel-fired generator (40 kW)	None	None	D
A-WC-XX-01* **MACT ZZZZ, NSPS IIII**	Diesel-fired emergency generator (2,000 kW)	None	None	B
B-BB-50-01 **MACT ZZZZ, NSPS IIII**	Tactical generators located at the Marine Corps Engineer School (used for instructional purposes only, each diesel or F-24-fired, each with less than 282 horsepower)	None	None	K
A-FC-241-06	Diesel or F-24-fired IC engine test stand (300 hp)	None	None	E
A-FC-280-07	Diesel, JP-5 or F-24-fired turbine engine test stand (1,500 hp)	None	None	E
A-FC-280-11	Diesel or F-24-fired IC engine test stand (525 hp)	None	None	E
A-FC-280-12	Diesel or F-24-fired IC engine test stand (525 hp)	None	None	E
A-FC-280-13	Diesel or F-24-fired IC engine test stand (525 hp)	None	None	E
A-FC-280-14	Diesel or F-24-fired IC engine test stand (525 hp)	None	None	E
A-FC-280-23	Diesel or F-24-fired IC engine test stand (525 hp)	None	None	E
A-FC-280-25	Diesel or F-24-fired IC engine test stand (525 hp)	None	None	E
A-FC-285-01	Diesel, gasoline, JP-5, or F-24-fired IC engine test stand (55 hp)	None	None	E
A-HP-575-10	Diesel or F-24-fired IC engine test stand (537 hp)	None	None	E
A-MP-107-20	62 diesel or F-24-fired IC engine test stands (between 190 and 625 hp)	None	None	E

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description	Ref. Section
A-MP-150-01	11 diesel or F-24-fired IC engine test stands (between 190 and 625 hp)	None	None	E
A-MP-151-01	11 diesel or F-24-fired IC engine test stands (between 190 and 625 hp)	None	None	E
B-A-A47-05	Diesel or F-24-fired IC engine test stand (525 hp)	None	None	E
B-A-A69-01	Diesel, gasoline, JP-5, or F-24-fired IC engine test stand (55 hp)	None	None	E
B-BA-134-02	Diesel, gasoline, JP-5, or F-24-fired IC engine test stand (55 hp)	None	None	E
B-BA-72-03	Diesel, gasoline, JP-5, or F-24-fired IC engine test stand (55 hp)	None	None	E
B-BB-329-01	Diesel, gasoline, JP-5, or F-24-fired IC engine test stand (55 hp)	None	None	E
B-BB-A72-04*	Diesel, gasoline, JP-5, or F-24-fired outboard motor testing tank (130 hp)	None	None	L
B-BB-A72-05*	Diesel, gasoline, JP-5, or F-24-fired outboard motor testing tank (130 hp)	None	None	L
C-AS-480-01	Jet engine test stand	None	None	E
C-RR-430-01	Diesel, gasoline, JP-5, or F-24-fired IC engine test stand (55 hp)	None	None	E
C-RR-430-02	Diesel, gasoline, JP-5, or F-24-fired IC engine test stand (55 hp)	None	None	E
C-RR-430-04	Two diesel-fired IC engine training test stands (625 hp, each)	None	None	E
A-FC-280-10	Dry filter paint spray booth	None	None	G
A-FC-286-12	Dry filter type paint spray booth	None	None	G
A-FC-286-13, A-FC-286-24	Dry filter paint spray booth (ID No. A-FC-286-13) with steam heated dryer (ID No. A-FC-286-24)	None	None	G
C-AS-3900-01 **MACT GG**	Paint hangar	None	None	G
C-AS-3900-02 **MACT GG**	Paint spray booth	None	None	G
C-AS-3900-05* **MACT GG**	Dry filter paint spray booth	None	None	G
C-AS-3900-03	Grinding booth	CD-13	One cartridge-type filter (7,080 square feet of filter surface area)	G
C-AS-4106-01 **MACT GG**	Paint spray booth	None	None	G
C-AS-518-12 **MACT GG**	Dry filter paint spray booth	None	None	G
C-AS-518-13 **MACT GG**	Dry filter paint spray booth	None	None	G
C-AS-FUGITIVE-DEPAINTING **MACT GG**	All fugitive chemical depainting operations subject to MACT, Subpart GG	None	None	G
C-AS-FUGITIVE-PAINTING **MACT GG**	All fugitive painting operations subject to MACT, Subpart GG	None	None	G

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description	Ref. Section
C-AS-HAND WIPE **MACT GG**	All hand wipe solvent cleaning activities subject to MACT, Subpart GG	None	None	G
C-AS-FLUSH **MACT GG**	All flush cleaning activities subject to MACT, Subpart GG	None	None	G
C-AS-514-01 **MACT GG**	Plastic media blasting system	CD-17-A, CD-17-B, CD-17-C	three cartridge filter systems (16,800 square feet of filter area each) each in series with a HEPA filter	G
C-AS-514-02 **MACT GG**	Chemical depainting operation	None	None	G
A-HP-982-01 **NSPS WWW**	Municipal solid waste landfill, active (668,525 megagram capacity)	None	None	J
A-FC-FC18-01	Municipal solid waste landfill, closed (884,982 ton capacity)	None	None	J
A-FC-286-11	Abrasive blasting operation	CD-08	One fabric filter (15,600 square feet of surface area)	I
A-HP-972-01A	One above-ground gasoline storage tank equipped with an internal floating roof and vertical fixed roof (60,000 gallons maximum capacity)	None	None	F
A-HP-915-06	Woodworking operation	CD-15A	One cartridge-type filter system (2.03:1 air to cloth ratio)	H
A-HP-1202-02, and A-HP-1202-04	Woodworking operations	CD-03, CD-04	Two simple cyclones (36 inches in diameter each)	H
A-REMED **(MACT GGGGG)**	Five existing remediation systems located in Zone A	NA	NA	M
C-REMED **(MACT GGGGG)**	Five existing remediation systems located in Zone C	NA	NA	M

* Pursuant to application 6700011.23A, these emission sources **(ID No(s) ID Nos. A-WC-XX-01, B-BB-A72-04, B-BB-A72-05, and C-AS-3900-05)** are listed as a minor modification per 15A NCAC 02Q .0515. The annual compliance certification as described in General Condition P is required. Unless otherwise notified by DAQ, the affected terms of this permit (excluding the permit shield as described General Condition R) for these emission source shall become final on January 13, 2024. Until this date, the affected permit terms herein reflect the proposed operating language that the Permittee shall operate these emission sources pursuant to 15A NCAC 02Q .0515(f).

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. Three-No. 2 fuel oil/natural gas-fired boilers (ID Nos. A-NH-100-01; A-NH-100-02; and A-NH-100-05A)

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

Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.60 pounds per million Btu heat input	15A NCAC 02D .0503
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	**(ID Nos. A-NH-100-01 and A-NH-100-02)** Less than 250 tons per year, combined	15A NCAC 02Q .0317 (PSD Avoidance)
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Hazardous air pollutants	**ID Nos. A-NH-100-01, A-NH-100-02, and A-NH-100-5A:** Work practices and scheduled tune-ups.	15A NCAC 02D .1111 (40 CFR Part 63, Subpart DDDDD)
Toxic air pollutants	**See Section 2.2 A.**	15A NCAC 02D .1100

1. 15A NCAC 02D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

a. Emissions of particulate matter from the combustion of natural gas and/or No. 2 fuel oil that are discharged from these boilers **(ID Nos. A-NH-100-01, A-NH-100-02, and A-NH-100-05A)** into the atmosphere shall not exceed 0.60 pound per million Btu heat input, each.

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

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

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

c. No monitoring/recordkeeping/reporting is required for particulate emissions from the firing of natural gas and/or No. 2 fuel oil in these boilers **(ID Nos. A-NH-100-01, A-NH-100-02, and A-NH-100-05A)**.

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

a. Emissions of sulfur dioxide from these boilers **(ID Nos. A-NH-100-01, A-NH-100-02, and A-NH-100-05A)** shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

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

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

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

c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions when burning natural gas, and/or No. 2 fuel oil in these boilers **(ID Nos. A-NH-100-01, A-NH-100-02, and A-NH-100-05A)**.

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

a. Visible emissions from these boilers **(ID Nos. A-NH-100-01, A-NH-100-02, and A-NH-100-05A)** shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

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

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

c. No monitoring/recordkeeping/reporting is required for visible emissions when burning natural gas and/or No. 2 fuel oil in these sources **(ID Nos. A-NH-100-01, A-NH-100-02, and A-NH-100-05A)**.

4. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY (40 CFR Part 63, Subpart DDDDD)

Applicability [§63.7485, §63.7490(d), §63.7499(l)]

a. For these boilers (**ID Nos. A-NH-100-01 and A-NH-100-02;** existing sources designed to burn gas 1 fuels, with oil during curtailment, with a heat input capacity equal to or greater than 10 million Btu per hour) and this boiler (**ID No. A-NH-100-05A;** new sources designed to burn gas 1 fuels, with oil during curtailment, with a heat input capacity between 5 and 10 million Btu per hour), the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart DDDDD, "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters" and Subpart A "General Provisions."

Definitions and Nomenclature [§63.7575]

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

c. The Permittee shall only burn liquid fuel for periodic testing of liquid fuel, maintenance, or operator training, not to exceed a combined total of 48 hours during any calendar year, and during periods of gas curtailment or gas supply interruptions of any duration. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these requirements are not met.

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

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

Compliance Date [§63.7510(e), §63.56(b)]

e. The Permittee shall complete the initial tune up and the one-time energy assessment (existing sources only) no later than May 20, 2019.

Notifications [§63.7545(e), §§63.7530(e), (f)]

f. The Permittee shall submit a Notification of Compliance Status. The notification must be signed by a responsible official and submitted by July 19, 2019. The notification shall contain the following:
   i. A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, and description of the fuel(s) burned.
   ii. the following certification(s) of compliance, as applicable:
      (A) "This facility completed the required initial tune-up for all of the boilers and process heaters covered by 40 CFR 63 Subpart DDDDD at the site according to the procedures in.§63.7540(a)(10)(i) through (vi)" [i.e., **Section 2.1 A.4.h.i and j.ii**]; and
      (B) "This facility has had an energy assessment performed according to §63.7530(e)" [i.e., **Section 2.1 A.4.i]** and is an accurate depiction of the facility at the time of the assessment, or that the maximum number of on-site technical hours specified in the definition of energy assessment applicable to the facility has been expended.

(C) "No secondary materials that are solid waste were combusted in any affected unit." [§63.7545(c)]

g. The Permittee shall submit a notification of intent to fire an alternative fuel (i.e., fuel oil) within 48 hours of the declaration of each period of natural gas curtailment or supply interruption. The notification must include the information in §63.7545(f). [§63.7545(f)]

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

h. i. The Permittee shall conduct a tune-up of the source(s) annually (for boilers **ID Nos. A-NH-100-01 and A-NH-100-02**) or biennially (for boiler **ID No. A-NH-100-05A**) as specified below.
(A) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown;
(B) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
(C) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown);
(D) Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject; and
(E) Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.
[§§63.7500(a), §63.7540(a)(10) and (11)]

ii. Each annual tune-up shall be conducted no more than 13 months after the previous tune-up, and each biennial tune-up shall be conducted no more than 25 months after the previous tune-up. [§63.7515(d)]

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

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

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in **Section 2.1 A.4.h** are not met.

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

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

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

j. The Permittee shall keep the following:

i. A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status, or semiannual compliance report that has been submitted, according to the requirements in §63.10(b)(2)(xiv). [§63.7555(a)(1)]

ii. maintain on-site and submit, if requested by the Administrator, an annual report containing the information in paragraphs (A) through (C) below:
(A) the concentrations of carbon monoxide in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the source;
(B) a description of any corrective actions taken as a part of the tune-up; and
(C) the type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.
[§63.7540(a)(10)(vi)]

iii. the associated records for **Section 2.1 A.4.h through i**.

iv. the following records, pursuant to 15A NCAC 02Q .0508(f) and §63.7555(h):
(A) types of fuels combusted during periods of gas curtailment, gas supply interruption, periodic testing maintenance and operator training;
(B) date and duration of periods of gas curtailment and gas supply interruption; and
(C) date and duration of periods of testing, maintenance and operator training while combusting liquid fuel.

k. The Permittee shall:
i. maintain records in a form suitable and readily available for expeditious review;
ii. keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record; and
iii. keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The Permittee can keep the records offsite for the remaining 3 years.
[§63.7560, 63.10(b)(1)]
The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if records are not maintained as described in **Sections 2.1 A.4.j through k**.

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

l. The Permittee shall submit compliance reports to the DAQ on an annual basis for the existing boilers **(ID Nos. A-NH-100-01 and A-NH-100-02)** and on a 5-year basis for the new boiler **(ID No. A-NH-100-05A)**. The first report shall cover the period beginning on May 20, 2019 and ending on December 31, 2019. The first report shall be postmarked on or before January 30, 2020. Subsequent annual reports shall cover the periods from January 1 to December 31. The Permittee shall submit the compliance report postmarked on or before January 30 of each calendar year for the preceding 12-month period. [§63.7550(b)]

m. The compliance report must also be submitted electronically via the Compliance and Emissions Data Reporting Interface (CEDRI). CEDRI can be accessed through the EPA's Central Data Exchange (CDX) (https://cdx.epa.gov/). You must use the appropriate electronic report in CEDRI for this subpart. Instead of using the electronic report in CEDRI for this subpart, you may submit an alternate electronic file consistent with the XML schema listed on the CEDRI Web site (http://www.epa.gov/ttn/chief/cedri/index.html), once the XML schema is available. If the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, you must submit the report to the Administrator at the appropriate address listed in §63.13. You must begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI. [§63.7550(h)(3)]

n. The compliance report must contain the following information:
i. company name and address;
ii. process unit information, emissions limitations, and operating parameter limitations;
iii. date of report and beginning and ending dates of the reporting period;
iv. include the date of the most recent tune-up for each unit required according to **Section 2.1 A.4.h.** Include the date of the most recent burner inspection..
v. statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
[§63.7550(a) and (c), Table 9]

5. 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 modifications, these boilers **(ID Nos. A-NH-100-01 and A-NH-100-02)**, shall discharge into the atmosphere less than 250 tons of sulfur dioxide per consecutive 12-month period.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.5.a above in this section, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

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

c. Monitoring/Recordkeeping/Reporting is not required for these boilers **(ID Nos. A-NH-100-01 and A-NH-100-02)** for avoidance of PSD while burning natural gas or No. 2 fuel oil. Fuels which contain more sulfur than No. 2 fuel oil (maximum sulfur content 1% by weight) shall not be combusted in either boiler without modification of this permit to include appropriate limitations, monitoring, recordkeeping and reporting requirements to ensure compliance with the above annual limit.

B. Emergency-use diesel-fired reciprocating internal combustion engines:

Table 2.1 B-1: *Engines constructed on or after December 19, 2002, and on or before April 1, 2006, site rating greater than 500 horsepower:*
A-NH-100-10B
A-NH-100-11B
A-NH-100-12B

Table 2.1 B-2: *Engines constructed before December 19, 2002, site rating greater than 500 horsepower:*
A-FC-540-01
A-HP-590-01
A-NH-100-14

Table 2.1 B-3: *Engines manufactured after April 1, 2006, site rating greater than 500 horsepower:*
A-HP-128-01
A-HP-227-01
A-HP-24-03
A-HP-24-04
A-HP-1230-3
A-MP-455-01B
A-WC-PT3C-01
A-WC-XX-01
C-AS-4013-01
C-RR-134-01
C-RR-400-05
C-RR-406-01
C-RR-425-01
C-RR-430-05

Table 2.1 B-4: *Engines constructed on or after June 12, 2006, site rating less than 500 horsepower:*
C-RR-440-01
A-HP-24C-01

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

Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	**(Sources in Tables 2.1 B-1 and 2)** 2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Varies	**(Sources in Tables 2.1 B-3 and 4)** See Section 2.1 B.3.	15A NCAC 02D .0524 (40 CFR Part 60, Subpart IIII)
Hazardous air pollutants	No requirements See Section 2.1 B.4	15A NCAC 02D .1111 (40 CFR Part 63, Subpart ZZZZ)
Nitrogen oxides	**(ID Nos. C-RR-134-01, C-RR-400-05, C-RR-425-01, C-RR-430-05, C-RR-440-01, and A-HP-24C-01)** 40 tons per year, combined See Section 2.2 B.1	15A NCAC 02Q .0317 (PSD Avoidance)
Toxic air pollutants	**State-enforceable Only** See Section 2.2 A.1	15A NCAC 02D .1100

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

a. Emissions of sulfur dioxide from each emergency generator listed in Tables 2.1 B-1 and 2 shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

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

c. No monitoring, recordkeeping, or reporting is required for sulfur dioxide emissions from the firing of diesel fuel in any emergency generator listed in Tables 2.1 B-1, 2, 3, and 4.

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

a. Visible emissions from each emergency generator listed in Tables 2.1 B-1, 2, 3, and 4 shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

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

c. No monitoring, recordkeeping, or reporting is required for visible emissions from the firing of diesel fuel in any emergency generator listed in Tables 2.1 B-1, 2, 3, and 4.

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

Applicability [40 CFR 60.4200(a)(2)(i)]

a. For emergency-use engines manufactured after April 1, 2006 (Table 2.1 B-3) and emergency-use engines constructed on or after June 12, 2006 (Table 2.1 B-4), the Permittee shall comply with all applicable provisions, including the requirements for emission standards, notification, testing, reporting, record keeping, and monitoring, contained in Environmental Management Commission Standard 15A NCAC 02D .0524 "New Source Performance Standards" as promulgated in 40 CFR Part 60 Subpart IIII "Standards of Performance for Stationary Compression 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 60.4219 shall apply.

General Provisions [15A NCAC 02Q .0508(b)]

c. Pursuant to 40 CFR 60 .4218, the Permittee shall comply with the General Provisions of 40 CFR Part 60 Subpart A as presented in Table 8 of 40 CFR Part 60 Subpart IIII.

Emission Standards [15A NCAC 02Q .0508(b)]

d. The Permittee shall comply with the emission standards for new non-road CI engines in 40 CFR 60.4202, for all pollutants, for the same model year and maximum engine power for these sources. [40 CFR 60.4205(b)]

Fuel Requirements [15A NCAC 02Q .0508(b)]

e. Beginning October 1, 2010, the Permittee shall use diesel fuel in the engines that meets the following requirements as specified in 40 CFR 109.305, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted:

i. a maximum sulfur content of 15 ppm; and
ii. a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.
[40 CFR 60.4207(b)]

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

f. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limits given in Section 2.1 B.3.d or e above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524.

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

g. The engine has the following monitoring requirements:
   i. The engines shall be equipped with a non-resettable hour meter prior to startup. [40 CFR 60.4209(a)]
   ii. The engines, which are equipped with a diesel particulate filter, must be installed with backpressure monitors that notifies the owner or operator when the high backpressure limit of the engine is approached. [40 CFR 60.4209(b)]

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if these monitoring requirements are not met.

Compliance Requirements [15A NCAC 02Q .0508(b)]

h. The Permittee shall:
   i. operate and maintain the engines and control devices according to the manufacturer's emission related-written instructions over the entire life of the engine;
   ii. change only those emission-related settings that are permitted by the manufacturer; and
   iii. meet the requirements of 40 CFR 89, 94 and/or 1068 as applicable.
   [40 CFR 60.4206 and 60.4211(a)]

i. The Permittee shall comply with the emission standards in Section 2.1. B.3.d by purchasing an engine certified to the emission standards in Section 2.1 B.3.d. The engine shall be installed and configured according to the manufacturer's emission-related specifications. [40 CFR 60.4211(c)]

j. In order for the engine to be considered an emergency stationary internal combustion engine (ICE) as defined in Section 2.1 B.3.b, 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.
   i. There is no time limit on the use of emergency stationary ICE in emergency situations.
   ii. The Permittee may operate the emergency stationary ICE for any combination of the purposes specified in Sections 2.1 B.3.j.ii(A) below for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by Section 2.1 B.3.j.iii below counts as part of the 100 hours per calendar year allowed by this Section 2.1 B.3.j.ii.
      (A) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The 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.
   iii. Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in Section 2.1 B.3.j.ii above. Except as provided in Section 2.1 B.3.j.iii(A) below, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.
      (A) 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:
         (1) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;
         (2) 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.
         (3) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(4) The power is provided only to the facility itself or to support the local transmission and distribution system.
(5) 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 60.4211(f)]

k. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524, if the compliance requirements in Sections 2.1 B.3.h through j are not met.

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

l. The following records shall be maintained:
   i. The results of inspection and maintenance made pursuant to Section 2.1 B.3.h shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
      (A) the date and time of each recorded action;
      (B) the results of each inspection;
      (C) the results of any maintenance performed on the engine;
      (D) any variance from manufacturer's recommendations, if any, and corrections made;
      (E) the hours of operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time [40 CFR 60.4214(b)]; and
      (F) if a PM filter is used, records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached [40 CFR 60.4214(c)];
   ii. documentation from the manufacturer that the engine is certified to meet the emission standards in Section 2.1 B.3.d; and
   iii. records showing the fuel combusted meets the requirements in Section 2.1 B.3.e.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if these recordkeeping requirements are not met.

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

m. The Permittee shall submit a summary report of monitoring and recordkeeping activities required by Sections 2.1 B.3.g through l 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.
n. If the Permittee owns or operates an emergency stationary CI ICE with a maximum engine power more than 100 HP that operates for the purposes specified in Section 2.1 B.3.j(iii)(A) above, the Permittee shall submit an annual report according to the requirements at 40 CFR 60.4214(d). This report must be submitted to the Regional Supervisor and directly to the EPA pursuant to 40 CFR 60.4214(d)(3). [40 CFR 60.4214(d)] The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if this reporting requirement is not met.

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

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

a. For each source listed in Tables 2.1 B-1, 2, 3, and 4, the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR Part 63, Subpart ZZZZ, "National Emission Standards for Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines."
b. The Permittee shall ensure that the sources listed in Tables 2.1 B-1, 2, 3 and 4 meet the definition of an "emergency stationary RICE" at 40 CFR 63.6675.
c. Pursuant to §63.6590(b)(1)(i), the sources listed in Tables 2.1 B-1 and B-3 do not have to meet the requirements of 40 CFR Part 63, Subpart ZZZZ and Subpart A except for the initial notification requirements of §63.6645(f). The Permittee has previously submitted the required initial notification.
d. Pursuant to §63.6590(b)(3)(iii), the sources listed in Table 2.1 B-2 do not have to meet the requirements of 40 CFR Part 63, Subpart ZZZZ and Subpart A.

e. Pursuant to §63.6590(c)(6), the sources listed in Table 2.1 B-4 shall demonstrate compliance with Subpart ZZZZ by demonstrating compliance with 40 CFR Part 60, Subpart IIII (see Section 2.1 B.3). No further requirements apply under Subpart ZZZZ for these engines.

C. Limited-use diesel-fired peak-shaving generator (ID No. A-HP-S185-01)

The following provides a summary of limits and/or standards for the emission source(s) described above.

Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	2.3 pounds per million Btu heat input each	15A NCAC 02D .0516
Nitrogen dioxide	Less than 40 tons per year	15A NCAC 02Q .0317 (PSD Avoidance)
Visible emissions	20 percent opacity each boiler	15A NCAC 02D .0521
Hazardous Air Pollutants	Operate less than 100 hours per year	15A NCAC 02Q .0317 (MACT Avoidance)
Toxic Air Pollutants	**State Enforceable Only** See Section 2.2 A.1	15A NCAC 02D .1100

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

a. Emissions of sulfur dioxide from this source **(ID No. A-HP-S185-01)** shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 C.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

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

c. No monitoring, recordkeeping, or reporting is required for sulfur dioxide emissions from the firing of diesel fuel oil in this source **(ID No. A-HP-S185-01)**.

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

a. Visible emissions from this source **(ID No. A-HP-S185-01)** shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 C.2.a above in this section, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

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

c. No monitoring, recordkeeping, or reporting is required for visible emissions from the firing of diesel fuel oil in this source **(ID No. A-HP-S185-01)**.

3. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY (40 CFR Part 63, Subpart ZZZZ)

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

a. For the limited-use diesel-fired peak-shaving generator **(ID No. A-HP-S185-01**; i.e. existing limited-use stationary RICE with a site rating greater than 500 horsepower**)**, the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission

Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR Part 63, Subpart ZZZZ, "National Emission Standards for Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines."

b. Pursuant to §63.6590(b)(3)(iv), this source **(ID No. A-HP-S185-01)** does not have to meet the requirements of 40 CFR Part 63, Subpart ZZZZ and Subpart A.

4. 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, this source **(ID No. A-HP-S185-01)** shall discharge into the atmosphere less than 40 tons of nitrogen dioxide total, per consecutive 12-month period.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 C.4.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

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

c. The Permittee shall keep monthly records of the hours of operation in a logbook (written or in electronic format). The hours of operation for this source **(ID No. A-HP-S185-01)** shall not exceed 1,480 hours per year. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the annual hours of operation are not kept or if the Permittee operates these sources greater than 1,480 hours per year.

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

d. The Permittee shall submit a semi-annual summary report of the monitoring/recordkeeping required by Section 2.1 C.4.c above, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
   i. The monthly nitrogen dioxide emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months;
   ii. The monthly hours of operation for this peak shaver/emergency generator for the previous 17 months.

5. 15A NCAC 02Q .0317: AVOIDANCE CONDITIONS for 15A NCAC 02D .1111: MAXIMUM ACHEIVABLE CONTROL TECHNOLOGY

a. In order to avoid applicability of 40 CFR Part 63, Subpart ZZZZ, "National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines," the Permittee shall limit the operation of the diesel-fired peak shaving generator **(ID No. A-HP-S185-01)** to less than 100 hours per calendar year such that it meets the definition of a limited use stationary RICE under 40 CFR 63.6675.

b. If the diesel-fired peak shaving generator **(ID No. A-HP-S185-01)** operates 100 hours or more per calendar year, the Permittee shall comply with the requirements for an existing non-emergency stationary compression ignition RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions under 40 CFR Part 63, Subpart ZZZZ.

Monitoring/Recordkeeping/Reporting

c. The Permittee shall record the hours of operation of the diesel-fired peak shaving generator **(ID No. A-HP-S185-01).** The hours of operation shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these records are not maintained.

d. The Permittee shall submit a summary report of monitoring and recordkeeping activities given in Section 2.1 C.5.c 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 must be clearly identified.

D. Two diesel-fired generators (ID Nos. A-FC-280-24 and A-FC-280-26)

The following provides a summary of limits and/or standards for the emission source(s) described above.

Pollutant	Limits/Standards	Applicable Regulation
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Various	See Section 2.1 D.2	15A NCAC 02D .0524 (40 CFR Part 60, Subpart IIII)
Nitrogen dioxide	**(A-FC-280-24 only)** Less than 40 tons per year See Section 2.2 C.1	15A NCAC 02Q .0317 (PSD Avoidance)
	(A-FC-280-26 only) Less than 40 tons per year See Section 2.2 D.1	15A NCAC 02Q .0317 (PSD Avoidance)
Hazardous Air Pollutants	Comply with NSPS Subpart IIII	15A NCAC 02D .1111 (40 CFR Part 63, Subpart ZZZZ)
Toxic Air Pollutants	**State Enforceable Only** See Section 2.2.A.1	15A NCAC 02D .1100

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

a. Visible emissions from these sources **(ID Nos. A-FC-280-24 and A-FC-280-26)** shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

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

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

c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of diesel fuel in these sources **(ID Nos. A-FC-280-24 and A-FC-280-26)**.

2. 15A NCAC 02D .0524: NEW SOURCE PERFORMANCE STANDARDS (40 CFR Part 60, Subpart IIII)

a. For these diesel-fired generators **(ID No. A-FC-280-24 and -26),** the Permittee shall comply with all applicable provisions, including the requirements for emission standards, notification, testing, reporting, record keeping, 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 IIII, including Subpart A "General Provisions."

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

b. Pursuant to 40 CFR 60 .4218, The Permittee shall comply with the General Provisions of 40 CFR Part 60 Subpart A as presented in Table 8 of 40 CFR Part 60 Subpart IIII.

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

c. Pursuant to 40 CFR 60.4204(b), the Permittee shall comply with the emission standards for new compression ignition (CI) engines in 40 CFR 60.4201, for all pollutants, for the same model year and maximum engine power for this engine.

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

d. Beginning October 1, 2010, the Permittee shall use diesel fuel in the engines that meets the following requirements as specified in 40 CFR 80.510(b), except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted:
   i. a maximum sulfur content of 15 ppm; and
   ii. a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent
   [40 CFR 60.4207(b), and 40 CFR 80.510(b)]

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

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

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

f. The Permittee shall operate and maintain the engines and control devices in accordance with the manufacturer's written instructions or procedures developed by the Permittee that are approved by the engine manufacturer over the entire life of the engine. The Permittee may only change engine settings that are permitted by the manufacturer. The Permittee shall also meet the requirements of 40 CFR 89, 94 and/or 1068 as applicable. [40 CFR 60.4206 and 60.4211(a)]

g. The Permittee shall comply with the emission standards specified Section 2.1 D.2.c by purchasing an engine certified to the emission standards in Section 2.1 D.2.c. The engine must be installed and configured according to the manufacturer's specifications. [40 CFR 60.4211(c)]
   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if the requirements in Sections 2.1 D.2.f and g are not met.

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

i. To ensure compliance, the Permittee shall perform inspections and maintenance on the engine as recommended by the manufacturer per 40 CFR 60.4206 and 40 CFR 60.4211(a). The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each inspection;
   iii. the results of any maintenance performed on the engine; and
   iv. any variance from manufacturer's recommendations, if any, and corrections made.
   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if these records are not maintained.

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

j. The Permittee shall 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.

3. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY (40 CFR Part 63, Subpart ZZZZ)

Applicability [40 CFR 63.2231]

a. For these diesel-fired generators **(ID No. A-FC-280-24 and -26),** the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR Part 63, Subpart ZZZZ. "National Emission Standards for Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines."

Stationary RICE subject to Regulations under 40 CFR Part 60 [40 CFR 63.6590(c)]

b. Pursuant to 40 CFR 63.6590(c), the engine must meet the requirements of 40 CFR Part 63 Subpart ZZZZ and Subpart A by meeting the requirements of 40 CFR Part 60 Subpart IIII. No further requirements apply for these engines under 40 CFR Part 63 Subpart ZZZZ and Subpart A. If the requirements in condition b. are not met, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111.

E. Engine Test Stands:

- **A-FC-241-06 Diesel or F-24-fired IC engine test stand;**
- **A-FC-280-07 Diesel, JP-5, or F-24-fired turbine engine test stand;**
- **A-FC-280-25 Diesel or F-24-fired IC engine test stand;**
- **A-FC-280-11 Diesel or F-24-fired IC engine test stand;**
- **A-FC-280-12 Diesel or F-24-fired IC engine test stand;**
- **A-FC-280-13 Diesel or F-24-fired IC engine test stand;**
- **A-FC-280-14 Diesel or F-24-fired IC engine test stand;**
- **A-FC-280-23 Diesel or F-24-fired IC engine test stand;**
- **A-FC-285-01 Diesel, gasoline, JP-5, or F-24-fired IC engine test stand;**
- **A-HP-575-10 Diesel or F-24-fired IC engine test stand;**
- **A-MP-107-20 Diesel or F-24-fired IC engine test stands;**
- **A-MP-150-01 Diesel or F-24-fired IC engine test stands;**
- **A-MP-151-01 Diesel or F-24-fired IC engine test stands;**
- **B-A-A47-05 Diesel or F-24-fired IC engine test stand;**
- **B-A-A69-01 Diesel, gasoline, JP-5, or F-24-fired IC engine test stand;**
- **B-BA-134-02 Diesel, gasoline, JP-5, or F-24-fired IC engine test stand;**
- **B-BA-72-03 Diesel, gasoline, JP-5, or F-24-fired IC engine test stand;**
- **B-BB-329-01 Diesel, gasoline, JP-5, or F-24-fired IC engine test stand;**
- **C-AS-499-01 Jet engine test stand;**
- **C-RR-430-01 Diesel, gasoline, JP-5, or F-24-fired IC engine test stand; and**
- **C-RR-430-02 Diesel, gasoline, JP-5, or F-24-fired IC engine test stand**
- **C-RR-430-04 Two diesel-fired IC engine training test stands**

The following provides a summary of limits and/or 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
HAPs	No applicable requirements	15A NCAC 02D .1111 **40 CFR Part 63, Subpart PPPPP**
Toxic Air Pollutants	**State Enforceable Only** See Section 2.2 A.1	15A NCAC 02D .1100
Nitrogen dioxide	Less than 40 tons per year **(ID Nos. C-RR-430-01 and C-RR-430-02 only)** See Section 2.2 B.1	15A NCAC 02Q .0317 **(PSD Avoidance)**
	Less than 40 tons per year **(ID No. A-FC-280-23 only)** See Section 2.2 C.1	
	Less than 40 tons per year **(ID Nos. A-FC-280-07 and 25 only)** See Section 2.2 D.1	

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

a. Emissions of sulfur dioxide from the sources listed in Section 2.1 E above shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 E.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

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

c. No monitoring, recordkeeping, or reporting is required for sulfur dioxide emissions from the emission sources listed in Section 2.1 E above fired by gasoline, diesel fuel, F-24, or JP-5 fuel.

2. 15A NCAC 02D .1111: MAXIMUM ACHIEVEABLE CONTROL TECHNOLOGY (40 CFR Part 63, Subpart PPPPP)

a. The Permittee shall comply with all applicable provisions, including the notification, testing, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" as promulgated in 40 CFR Part 63 Subpart PPPPP, "National Emission Standards for Hazardous Air Pollutants for Engine Test Cells/Stands" for the sources in Section 2.1 E above. [40 CFR 63.9285]

Applicability [40 CFR 63.9290]

b. Pursuant to 40 CFR 63.9290(a), each emission source in Section 2.1 E (except ID No. C-RR-430-04) above is considered to be an "existing affected source." Pursuant to 40 CFR 63.9290(b), existing affected sources do not have to meet the requirements of 40 CFR 63 Subpart PPPPP and Subpart A.

c. Pursuant to 40 CFR 63.9290(d)(3), the diesel-fired IC engine training test stands **(ID No. C-RR-430-04)** does not have to meet the requirements of 40 CFR 63 Subpart PPPPP and Subpart A.

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

d. No monitoring/recordkeeping/reporting is required for the sources in Section 2.1 E to demonstrate compliance with 15A NCAC 02D .1111.

F. One above-ground, vertical fixed roof, gasoline storage tank (ID No. A-HP-972-01A)

The following provides a summary of limits and/or standards for the emission source(s) described above.

Pollutant	Limits/Standards	Applicable Regulation
Volatile organic compounds	Work practice standards	15A NCAC 02D .0925
	Vapor balance system and proper maintenance of system components	15A NCAC 02D .0926

1. 15A NCAC 02D .0925: PETROLEUM LIQUID STORAGE IN FIXED ROOF TANKS

a. The Permittee shall not use the storage vessel unless:
   i. Each storage vessel has been retrofitted with an internal floating roof equipped with a closure seal, or seals, to close the space between the roof edge and tank wall;
   ii. All openings, except stub drains are equipped with covers, lids, or seals such that:
      (A) The cover, lid, or seal is in the closed position at all times except when in actual use;
      (B) Automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports;
      (C) Rim vents, if provided, are set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting; and
      (D) The storage vessel is maintained such that there are no visible holes, tears, or other openings in the seal or any seal fabric or materials.

   [15A NCAC 02D .0925(d)(1)-(3)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0925 if the requirements under Section 2.1 F.1.a are not met.

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

c. Inspection and maintenance shall be performed as follows:
   i. Routine visual inspections shall be conducted through roof hatches once per month; and

ii. A complete inspection of the floating roof and seal shall be conducted whenever the tank is emptied for maintenance, shell inspection, cleaning, or for other non-operational reasons or whenever excessive vapor leakage is observed.

[15A NCAC 02D .0925(d)(4) and (5)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0925 if the tanks are not inspected and maintained.

Recordkeeping [15A NCAC 02Q .0508(f) and 15A NCAC 02D .0903]

d. The Permittee shall maintain a logbook (written or electronic format) of the following records:
   i. Reports of the results of the required inspections;
   ii. The average monthly storage temperature, and true vapor pressures of petroleum liquids stored; and
   iii. The throughput quantities and types of petroleum liquids for each storage vessel.

   [15A NCAC 02D .0925(d)(6)]

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0925 if these records are not maintained.

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

e. The Permittee shall submit a summary report of the monitoring and recordkeeping required by Section 2.1 F.c and d postmarked on or before January 30 and July 30 of each calendar year for the preceding six-month period. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 02D .0926: BULK GASOLINE PLANTS

a. This Rule applies to the unloading, loading, and storage facilities of all bulk gasoline plants and of all tank trucks or trailers delivering or receiving gasoline at bulk gasoline plants.
b. The Permittee shall not load tank trucks or trailers unless the unloading stationary storage tank and the receiving tank truck or trailer are equipped with an outgoing vapor balance system as described in Section 2.1 F.2.d below, and the receiving tank truck or trailer is equipped for bottom filling. [15A NCAC 02D .0926(d)]
c. The Permittee shall not transfer gasoline between tank truck or trailer and stationary storage tank unless:
   i. The vapor balance system is in good working order and is connected and operating;
   ii. Tank truck or trailer hatches are closed at all times during loading and unloading operations; and
   iii. The tank truck's or trailer's pressure/vacuum relief valves and hatch covers and the truck tanks or storage tanks or associated vapor and liquid lines are vapor tight during loading or unloading.

   [15A NCAC 02D .0926(h)]
d. The required vapor balance system shall consist of the following major components:
   i. a vapor space connection on the stationary storage tank equipped with fittings which are vapor tight and will be automatically and immediately closed upon disconnection so as to prevent release of organic material;
   ii. a connecting pipe or hose equipped with fittings which are vapor tight and will be automatically and immediately closed upon disconnection so as to prevent release of organic material; and
   iii. a vapor space connection on the tank truck or trailer equipped with fittings which are vapor tight and will be automatically and immediately closed upon disconnection so as to prevent release of organic material.

   [15A NCAC 02D .0926(i)]
e. All gasoline storage tanks shall be painted white or silver. [15A NCAC 02D .0926(j)]
f. The pressure relief valves shall be set at the highest setting on tank trucks or trailers loading or unloading at the facility in accordance with state or local fire codes or the National Fire Prevention Association guidelines. [15A NCAC 02D .0926(k)]
g. Tank trucks and trailers shall be certified leak tight in accordance with 15A NCAC 02D .0932. [15A NCAC 02D .0926(n)]

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0926 if the requirements under Sections 2.1 F.2.b through g are not met.

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

h. The Permittee shall follow good work practice standards for the tanks and vapor balance system such as avoiding spillage, checking for leaks, not releasing gasoline to sewers, keeping instrumentation and gauges in good working condition, etc.
i. The Permittee shall maintain readily accessible records of malfunctions detected, corrections made, and any maintenance performed on the tanks and the vapor balance system. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0926 if these records are not maintained.

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

k. The Permittee shall submit a summary report of the monitoring and recordkeeping activities required by Sections 2.1 F.h and i above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

G. Dry filter paint spray booths (ID Nos. A-FC-280-10, A-FC-286-12, C-AS-518-12, and C-AS-518-13),

Dry filter paint spray booth with steam heated dryer (ID Nos. A-FC-286-13 and A-FC-286-24),

Paint hangar and paint spray booth (ID No. C-AS-3900-01 and C-AS-3900-02),

Dry filter paint spray booth (ID No. C-AS-3900-05),

Paint spray booths (ID Nos. C-AS-4106-01),

Grinding booth (ID No. C-AS-3900-03) with a cartridge-type filter (ID No. CD-13),

Plastic media blasting system with three cartridge filter systems (ID Nos. CD-17-A, CD-17 - B, CD-17-C) in series with a HEPA filter,

Chemical depainting operation (ID No. C-AS-514-02), and

All fugitive chemical depainting operations (ID No. C-AS-FUGITIVE-DEPAINTING)

The following provides a summary of limits and/or standards for the emission source(s) described above.

Pollutant	Limits/Standards	Applicable Regulation
Particulate emissions	**For paint spray booths only** $E = 4.10 \times P^{0.67}$ Where: E = allowable particulate emission rate in pounds per hour P = process rate in tons per hour	15A NCAC 02D .0515
Visible emissions	**For paint spray booths and plastic media blasting system only** 20 percent opacity each	15A NCAC 02D .0521
Particulate emissions	**Abrasive blasting only** Comply with VE limits	15A NCAC 02D .0541
Toxic Air Pollutants	**State Enforceable Only** See Section 2.2 A.1	15A NCAC 02D .1100
HAPs	**See Tables 2.1 G-2 through 4**	15A NCAC 02D .1111 **40 CFR Part 63, Subpart GG**

1. 15A NCAC 02D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

a. Emissions of particulate matter from the paint spray booths listed in Section 2.1 G. shall not exceed an allowable emission rate as calculated by the following equation:
$E = 4.10 \times P^{0.67}$
Where:
E = allowable emission rate in pounds per hour
P = process rate in tons per hour
Liquid and gaseous fuels and combustion air are not considered as part of the process rate.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 G.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.

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

c. The Permittee shall maintain production records of the paint spray booths which specify the types of materials and finishes processed such that the process rate "P" in tons per hour, as specified by the formula above, can be derived and shall make these records available to a DAQ authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if the production records are not maintained or the types of materials and finishes are not monitored.

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

d. No reporting is required to demonstrate compliance with particulate emission limits for the paint spray booths listed in Section 2.1 G.

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

a. Visible emissions from the paint spray booths listed in Section 2.1 G. shall not be more than 20 percent opacity each when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 G.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

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

c. To ensure compliance, once a month, the Permittee shall observe the emission points of each source **(ID Nos. A-FC-286-12, A-FC-286-13, A-FC-280-10 and C-AS-514-01)** for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. If visible emissions from this source are observed to be above normal, the Permittee shall either:
   i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
   ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 G.2.a. above.

   The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if the required monthly observations are not conducted as required or if the above-normal emissions are not corrected within the monitoring period or the percent opacity demonstration cannot be made.

d. To ensure compliance, once a month the Permittee shall observe the pressure drop readings of the gauge on booths **(ID Nos. C-AS-4106-01, C-AS-3900-01, C-AS-3900-02, C-AS-3900-03, C-AS-3900-05, and C-AS-518-12)**. The system shall not exceed the recommended manufactures operating pressure differential. The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if the booth operates with a pressure differential that exceeds the filter manufacturer's recommendations.

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

e. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each action;
   ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions;
   iii. the results of any corrective actions performed; and
   iv. the results of the pressure drop readings of the gauge on the booths.

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

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

f. The Permittee shall submit a summary report of the monitoring and recordkeeping required by Sections 2.1 G.2.d and e above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

3. 15A NCAC 02D .0541: CONTROL OF EMISSIONS FROM ABRASIVE BLASTING

a. The Permittee shall ensure that the abrasive blasting operations conducted in this source **(ID No. C-AS-514-01)** and vented to the atmosphere comply with the requirements set forth in 15A NCAC 02D .0521 "Control of Visible Emissions" (see Section 2.1 G.2).

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 G.3.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0541.

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

c. Particulate matter emissions from the plastic media blasting system (**ID No. C-AS-514-01**) shall be controlled by the filter systems (**ID Nos. CD-17-A, CD-17-B and CD-17-C**). To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
   i. a monthly visual inspection of the system ductwork and material collection unit for leaks; and
   ii. an annual (for each 12-month period following the initial inspection) internal inspection of the filter systems' structural integrity.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0541 if the ductwork and bagfilters are not inspected and maintained.

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

d. The results of inspection and maintenance required by Section 2.1 G.3.c above shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each inspection;
   iii. the results of any maintenance performed on the filter systems; and
   iv. any variance from manufacturer's recommendations, if any, and corrections made.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0541 if these records are not maintained.

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

e. The Permittee shall submit the results of any maintenance performed on the filter systems (**ID Nos. CD-17-A, CD-17-B and CD-17-C**) within 30 days of a written request by the DAQ.

f. The Permittee shall submit a summary report of monitoring and recordkeeping activities required by Sections 2.1 G.3.c and d, above, postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

4. 15A NCAC 02D .1111: MAXIMUM ACHIEVEABLE CONTROL TECHNOLOGY (40 CFR Part 63, Subpart GG)

a. For the sources listed in **Table 2.1 G-1,** below, the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR Part 63 Subpart GG "National Emission Standards for Aerospace Manufacturing and Rework Facilities" and Subpart A "General Provisions."

b. i. The requirements of 40 CFR Part 63, Subpart GG do not apply to primers, topcoats, specialty coatings, chemical milling maskants, strippers, and cleaning solvents that meet the definition of non-HAP material. [40 CFR 63.741(f)]

ii. *Non-HAP material* means, for the purposes of this subpart, a primer, topcoat, specialty coating, chemical milling maskant, cleaning solvent, or stripper that contains no more than 0.1 percent by mass of any individual organic HAP that is an Occupational Safety and Health Administration-defined carcinogen as specified in 29 CFR 1910.1200(d)(4) and no more than 1.0 percent by mass for any other individual HAP. [40 CFR 63.742]

iii. The requirements for primers, topcoats, specialty coatings, and chemical milling maskants in 40 CFR 63.745 and 63.747 do not apply to the use of low-volume coatings in these categories for which the annual total of each separate formulation used at a facility does not exceed 50 gallons, and the combined annual total of all such primers, topcoats, specialty coatings, and chemical milling maskants used at a facility does not exceed 200 gallons. Primers, topcoats, and specialty coatings exempted under Section 2.1 H.4.b, above, and under 40 CFR 63.745(f)(3) and (g)(4) are not included in the annual limits. Chemical milling maskants exempted under 40 CFR 63.747(c)(3) are also not included in these limits. [40 CFR 63.741(g)]

Table 2.1 G-1: Sources subject to MACT Subpart GG

ID No.	Source Description
C-AS-3900-01 C-AS-3900-02	Paint hangar and paint spray booth
C-AS-4106-01	Paint spray booth
C-AS-3900-05	Dry filter paint spray booth
C-AS-518-12	Dry filter paint spray booth
C-AS-518-13	Dry filter paint spray booth
C-AS-514-01	Plastic media blasting system with three cartridge filter systems (16, 800 square feet of filter area each) each in series with a HEPA filter (ID Nos. CD-17-A, CD-17-B, CD-17-C)
C-AS-514-02	Chemical depainting operation
C-AS-FLUSH	All flush cleaning activities subject to **MACT, Subpart GG**
C-AS-HAND WIPE	All hand wipe solvent cleaning activities subject to **MACT, Subpart GG**
C-AS-FUGITIVE-DEPAINTING	All fugitive chemical depainting operations subject to **MACT, Subpart GG**
C-AS-FUGITIVE-PAINTING	All fugitive painting operations subject to **MACT, Subpart GG**

b. In accordance with 40 CFR 63.745(g)(4)(ix), the Permittee shall be allowed to paint aerospace parts in flightline and hangars adjacent to the flightline at Marine Corps Air Station, New River when not technically feasible to paint in a booth.

c. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if work practice standards, monitoring, and recordkeeping are not conducted in accordance with 40 CFR Part 63 Subpart GG, as summarized in the following table:

Table 2.1 G-2: Cleaning Operations:	
Standards	1. Must comply with the following requirements unless the cleaning solvent use is identified in Table 1 below or contains HAP and VOC below the de minimis levels specified in §63.741 (f). [63.744(a)] Table 1 [40 CFR §63.744] Aqueous – Cleaning solvents in which water is the primary ingredient greater or equal to 80 percent of cleaning solvent solution as applied must be water). Detergents surfactants, and bioenzyme mixtures and nutrients may be combined with the water along with a variety of additives such as organic solvents (e.g., high boiling point alcohols), builders, saponifiers, inhibitors, emulsifiers, pH buffers, and antifoaming agents. Aqueous solutions must have a flash point greater than 93 °C (200°F) (as reported by the manufacturer) and the solution must be miscible with water. Hydrocarbon based – Cleaners that are composed of photochemically reactive hydrocarbons and oxygenated hydrocarbons and have a maximum vapor pressure 7 mm Hg at 20 °C (3.75 in. H_2O at 68 °F). These cleaners also contain no HAP. 2. Place cleaning solvent-laden cloth, paper, or other absorbent applicators in bags or other closed containers upon completing their use. [63.744(a)(1)] 3. Store cleaning solvents except semi-aqueous in closed containers. [63.744(a)(2)]
	Handwipe 1. Except for cleaning of spray gun equipment, all hand wipe cleaning solvent must meet a composition requirement as listed in table 1 (40 CFR §63.744) as listed above, have a composite vapor pressure 45 mm Hg at 20 °C, or meet the 60 percent volume reduction requirements specified in an alternative compliance plan. [63.744(b)] 2. Note the list of 13 cleaning operations exempt from composition, vapor pressure, and volume reduction requirements. [63.744(e)]
	Spray Gun Cleaning 1. Use one of the four specified techniques or their equivalent. [63.744(c)] 2. For enclosed spray gun cleaners, if leaks are found during the required monthly inspection, repair as soon as practicable, but within 15 days. [63.744(c)(1)(ii)] 3. If cleaning solvent solutions that contain HAP and VOC below the de minimis levels are used, those cleaning operations using such solutions are exempt from requirements. [63.744(c)]
	Flush Cleaning Operating procedures specify emptying used cleaning solvent into enclosed container, collection system, or system with equivalent emission control. [63.744(d)]
Test Methods and Procedures	Handwipe 1. Composition determination using manufacture's data. [63.750(a)] 2. Vapor pressure determination using readily available sources such as MSDS if single component; composite vapor pressure determined by manufacturer's supplied data or ASTM E 2260-911 and by equation provided for multiple component solvents. [63.750(b)]
	Spray Gun Cleaning Flush Cleaning None None
Monitoring	Handwipe Spray Gun Cleaning Flush Cleaning None Monthly visual leak inspection None [63.751(a)]
Recordkeeping	Handwipe 1. If complying with composition requirements, the name, data/calculations, and annual volumes. [63.752 (b)(2)] 2. If complying with vapor pressure limit, the name, vapor pressure, data/calculations/tests results, and monthly volumes. [63.752 (b)(4)] 3. For noncompliant cleaning solvents used in exempt operations, the name, monthly volumes by operation, and master list of processes. [63.752(b)(4)]
Reporting	Handwipe 1. Semi-annual report: Statement certifying compliance by responsible official. [63.753(b)(1)(v)] 2. Statement that noncompliant cleaning solvents used. [63.753(b)(1)(i)]

Table 2.1 G-2: Cleaning Operations:	
	3. New cleaning solvents and their composite vapor pressure or notification of compliance with composition requirements. [63.753(b)(1)(ii)]
	Spray Gun Cleaning 1. Semi-annual report: Statement certifying compliance by responsible official.[63.753(b)(1)(v)] 2. Statement that noncompliant spray gun cleaning method used. [63.753(b)(1)(iii)] 3. Leaks from enclosed spray gun cleaners not repaired within 15 days. [63.753(b)(1)(iv)]

Table 2.1 G-3: Primer and Topcoat Application Operations:	
Standards	Uncontrolled Primers 1. Organic HAP and VOC content Limit: 350 grams per liter (g/L)(2.9 lb/gal less water for HAP; and less water and exempt solvents for VOC) as applied. [63.745(c)(1-2)] 2. Achieve compliance through: (1) using coatings below content limits, or (2) using monthly volume-weighted averaging to meet content limits. [63.745(e)] Uncontrolled Topcoats (including self-priming tools) 3. Organic HAP and VOC content limit: 420 g/L (3.5 lb/gal less water for HAP; and less water and exempt solvents for VOC) as applied. [63.745(c)(3-4)] 4. Achieve compliance through: (1) using coatings below content limits, or (2) using monthly volume-weighted averaging to meet content limits. [63.745(e)] Controlled Primers and Topcoats (including self-priming tools) 5. Control system must reduce organic HAP and VOC emissions to the atmosphere 81 percent, using capture and destruction/removal efficiencies. [63.745(d)] All Primers and Topcoats 6. Minimize spills during handling and transfer. [63.745 (b)] 7. Specific application techniques must be used. [63.745(f)(1)] 8. Exemptions from specific application techniques must be used for certain situations. [63.745(f)(3)] 9. All application equipment must be operated according to manufacturer's specifications, company procedures, or locally specified operating procedures (whichever is most stringent). [63.745(f)(2)] 10. Operating requirements for the application of primers or topcoats that contain inorganic HAP, including control with either particulate filters (see Tables 1 through 4 of 63.745) or waterwash system. Painting operation(s) must be shutdown if operated outside manufacturer's specified limits. [63.745(g)(1) through (3)] 11. Exemptions from operating requirements for the application of primers or topcoats that contain inorganic HAP, including control with either particulate filters or waterwash system provided for certain application operations. [63.745(g)(4)]
Performance Test Periods and Tests	Uncontrolled 1. Performance test period for coatings not averaged: each 24 hour period; for "averaged" coatings each 30-day period. [63.749(d)(1)] Controlled 2. Performance test period for noncarbon adsorber: three 1-hour runs; for carbon adsorber each rolling material balance period. [63.749(d)(1)] 3. Initial performance test required for all control devices to demonstrate compliance with overall control efficiency requirement. [63.749(d)(2)]
Tests Methods and Procedures	Organic HAP 1. Organic HAP level determination procedures. [63.750(c) and (d)] 2. VOC level determination procedures. [63.750(e) and (f)] 3. Overall control efficiency of carbon adsorber system determined using provided procedures; for other control devices, determine capture efficiency and destruction efficiency. For capture efficiency, use procedure T in Appendix B to 40 CFR 52.741 for total enclosures and 40 CFR 52.741(a)(4)(iii) procedures for all other enclosures. [63.750(g) and (h)] 4. For alternative application methods, first determine emission levels for initial 30-day period or five aircraft using only HVLP or electrostatic, or a time period specified by the permitting agency. Then use alternative application method for period of time necessary to coat equivalent amount of parts with

Table 2.1 G-3: Primer and Topcoat Application Operations:	
	same coatings. Alternative application method may be used when emissions generated during the test period are less than or equal to the emissions generated during the initial 30-day period or live aircraft. Dried film thickness must be within specification for initial 30-day period or five aircraft as demonstrated under actual production conditions. [63.750(i)] <u>Inorganic HAP</u> 5. Dry particulate filter certification; use Method 319 to meet or exceed the efficiency data points in Tables 1 and 2 of §63.745 for existing sources, or Tables 3 and 4 of §63.745 for new sources [63.750 (o)]
Monitoring	1. Carbon adsorbers. [63.751(b)(1) through (7)] 2. Temperature monitoring equipment to be installed, calibrated, maintained, and operated according to manufacturer's specifications. Use CEMS as an alternative. [63.751(b)(8)] 3. Incinerators. [63.751(b)(9) through (12)] 4. Dry particulate filters and waterwash systems. [63.751(c)] 5. Alternate monitoring method. [63.751(c)]
Recordkeeping	1. Name and VOC content as received and as applied for all primers and topcoats. [63.752(c)(1)] <u>Uncontrolled</u> 2. For "compliant" coatings, organic HAP and VOC contents as applied, data/calculations and test results used to determine HAP/VOC contents (H_i and G_ii), and monthly usage. [63.752(c)(2)] 3. For "low-HAP content" primers, annual purchase records, and data/calculations and test results used to determine H_i or HAP/VOC content as applied. [63.752(c)(3)] 4. For "averaged" coatings, monthly volume-weighted average values of HAP/VOC content (H_a and G_a), and data/calculations and test results used to calculate H_a and G_a [63.752(c)(4)] <u>Controlled</u> 5. For incinerators, overall control efficiency test results/data/calculations used in determining the overall control efficiency; and continuous records of incinerator temperature(s). [63.752(c)(5)] 6. For carbon adsorbers, overall control efficiency and length of rolling period and all supporting test results/data/calculations used in determining the overall control efficiency. [63.752(c)(6)] <u>Inorganic HAP Particulate</u> 7. Pressure drop across filter or water flow rate through waterwash system once per shift, and acceptable limits. [63.752(d)(1) through (3)]
Reporting	<u>Semiannual</u> (six months from the date of notification of compliance status) 1. All instances where organic HAP/VOC limits were exceeeded. [63.753(c)(1)(i) and (ii)] 2. Control device exceedances (out-of-compliance). [63.753(c)(1)(iii), (iv), and (v)] 3. Periods when operation not immediately shut down when the pressure drop or water flow rate was outside limits. [63.753(c)(1)(vi)] 4. Statement certifying compliance. [63.753(c)(1)(vii)] <u>Annual</u> (twelve months from the date of notification of compliance status) 5. Number of times the pressure drop or water flow rate limits were exceeded. [63.753(c)(2)]

Table 2.1 G-4: Depainting Operations	
Exemptions	1. Facilities depainting six or less completed aerospace vehicles per calendar year. [63.746(a)] 2. Depainting of parts or units normally removed from the plane for depainting (except wings and stabilizers). [63.746(a)(1)] 3. Aerospace vehicles or components intended for public display, no longer operational, and not easily capable of being moved. [63.746(a)(2)] 4. Depainting of radomes and parts, subassemblies, and assemblies normally removed from the primary aircraft before depainting. [63.746(a)(3)]
Standards	1. Zero organic HAP emissions from chemical strippers or softeners. [63.746(b)(1)] 2. Minimize inorganic HAP emissions when equipment malfunctions. [63.746(b)(2)]

Table 2.1 G-4: Depainting Operations	
	3. Facility (average) allowance for spot stripping and decal removal; 26 gallons of strippers or 190 pounds of HAP per commercial aircraft per year; and 50 gallons of strippers or 365 pounds of HAP per military aircraft per year. [63.746(b)(3)] 4. Follow operating requirements for depainting operations generating airborne inorganic HAP. [63.746(b)(4)] 5. Mechanical and hand sanding are exempt from requirements of §63.746(b)(4). [63.746(b)(5)] 6. Control HAP emissions at 81 percent efficiency for systems installed before effective date (September 1, 1995), and 95 percent efficiency for newer systems. [63.746(c)]
Performance Test Periods and Tests	Organic HAP 1. Initial performance test of all control of all control devices is required to demonstrate compliance with overall control efficiency requirement. [63.749(f)(1), (f)(2), and (f)(3)] 2. Performance Test Period for noncarbon adsorber, three 1-hour test runs; for carbon adsorber each rolling material balance period. [63.749(f)(1)] 3. Test period for spot stripping and decal removal usage limits: each calendar year. [63.749(f)(1)] Inorganic HAP 4. Operating requirements specified in § [63.746(b)(4)] [63.749(g)]
Test Methods and Procedures	Organic HAP 1. Overall control efficiency of carbon adsorber system may be determined using specified procedures and equations 9 through 14; for other control devices, must determine capture and destruction efficiencies (use equations 15 through 18 to calculate overall control efficiency). For capture efficiency, use Procedure T in Appendix B to 40 CFR 52.741 for total enclosures and 40 CFR 52.741(a)(4)(iii) procedures for all other enclosures. [63.750(g) and (h)] 2. Spot stripping and decal removal: Procedures are provided for determining volume of chemical strippers (equation 20) or weight of organic HAP used per aircraft (equation 21). [63.750(j)] Inorganic HAP 3. Dry particulate filter certification: use Method 319 to meet or exceed the efficiency data points in Tables 1 and 2 of §63.745 for existing sources or Tables 3 and 4 of §63.745 for new sources. [63.750(o)]
Monitoring	Continuously monitor the pressure drop across filters, or the water flow rate through the waterwash system and read and record the pressure drop, or the water flow rate for waterwash system, once per shift. [63.751(d)]
Recordkeeping	1. Name and monthly volumes of each chemical stripper used or monthly weight of organic HAP used in chemical strippers. [63.752(e)(1)] 2. For controlled chemical strippers (carbon adsorber), overall control efficiency and length of rolling period and all supporting test results/data/calculations; certification of the accuracy of the device. [63.752(e)(2)] 3. For controlled chemical strippers (other control devices), overall control efficiency and supporting test results/data/calculations. [63.752(e)(3)] 4. List of parts/assemblies normally removed. [63.752(e)(4)] 5. For nonchemical based equipment, name and type, and malfunction information including dates, description, and alternative methods used. [63.752(e)(5)] 6. For spot stripping and decal removal, volume of stripper or weight or organic HAP used, annual number of aircraft stripped, annual average volume or weight per aircraft, and all data/calculations used to calculate volume or weight per aircraft. [63.752(e)(6)] 7. Pressure drop across filter or the visual continuity of the water curtain and water flow rate for waterwash systems, once per shift and include acceptable limits. [63.752(e)(7)]
Reporting	Semiannual (6 months from the date of notification of compliance status) 1. 24-hour periods where organic HAP were emitted from depainting operations. [63.753(d)(1)(i)] 2. New/reformulated chemical strippers and HAP contents. [63.753(d)(1)(ii),(iii), and (iv)] 3. New nonchemical depainting techniques. [63.753(d)(1)(v)] 4. Malfunction information or nonchemical depainting techniques including dates, description, and alternative methods used. [63.753(d)(1)(vi)] 5. Periods when operation not immediately shut down when the pressure drop or water flow rate was outside limits. [63.753(d)(1)(vii)]

Table 2.1 G-4: Depainting Operations	
	6. List of new/discontinued aircraft models and, for new models, list of parts normally removed for depainting. [63.753(d)(1)(viii)] 7. Organic HAP control device exceedances. [63.753(d)(3)] 8. Statement certifying compliance. [63.753(d)(1)(ix)] Annual (12 months from the date of notification of compliance status) 9. Exceedances of average annual volume or weight allowance for spot stripping and decal removal. [63.753(d)(2)(i)] 10. Number of times the pressure drop or water flow rate limits were exceeded. [63.753(d)(2)(ii)]

Table 2.1 G-5: Maskant Operations	
Standards	Minimize spills during handling and transfer [63.747(b)] Uncontrolled Maskants 1. Organic HAP emissions: ≤622 g/l (5.2 lb/gal) (less water) as applied for Type I; ≤ 160 g/L (1.3 lb/gal) (less water) as applied for Type II. [63.747(c)(1)] 2. VOC emissions: ≤622 g/l (5.2 lb/gal) (less water and exempt solvents) as applied for Type I, ≤ 160 g/L (1.3 lb/gal) (less water and exempt solvents) as applied for Type II. [63.747(c)(2)] 3. Exemption for touch-up of scratched surfaces, damaged maskant, and trimmed edges. [63.747(c)(3)] 4. Comply by either: (1) using maskants below content limits, or (2) using monthly volume-weighted averaging provisions described in §63.743(d). [63.747(e)] Controlled Maskants 5. If control device is used, system must capture and control all emissions from maskant operation and must achieve an overall control efficiency of at least 81.%. [63.747(d)]
Performance Test Periods and Tests	Uncontrolled 1. Performance Test Period for maskants that are not averaged, each 24-hour period; for maskants that are averaged, each 30-day period (unless otherwise specified). [63.749(h)(1)] Controlled 2. Performance Test Period for noncarbon adsorber, three 1-hour test runs; for carbon adsorber, each rolling material balance period. [63.749(h)(1)] 3. Initial performance test required for all control devices to demonstrate compliance with overall control efficiency requirement. [63.749(h)(2)]
Test Methods and Procedures	1. Organic HAP level determination procedures. [63.750(k) and (l)] 2. VOC level determination procedures. [63.750(m) and (n)] 3. Overall control efficiency of carbon adsorber system determined using specified procedures and equations 9 through 14; for other control devices, determine capture and destruction efficiencies (use equations 15 through 18 to calculate overall control efficiency). For capture efficiency, use Procedure T in Appendix B to 40 CFR 52.741 for total enclosures and 40 CFR 52.741(a)(4)(iii) procedures for all other enclosures. [63.750(g) and (h)]
Monitoring	Incinerators and carbon adsorbers: temperature sensors with continuous recorders for incinerators; and install, calibrate, maintain, and operate temperature monitors according to manufacturer's specifications. Use CEMS as an alternative. [63.751(b)]
Recordkeeping	Uncontrolled Maskants 1. For maskants not averaged, mass of organic HAP and VOC emitted per unit volume of chemical milling maskant (less water for HAP; and less water and exempt solvents for VOC) (H_i and G_i); all data, calculations, and test results; monthly volumes of each maskant. [63.752(f)(1)] 2. For "averaged" maskants, monthly volume-weighted average mass of organic HAP or VOC emitted per unit volume of chemical milling maskant as applied (less water for HAP; and less water and exempt solvents for VOC) (H_a and G_a); all data, calculations, and test results. [63.752(f)(2)] Controlled Maskants 3. For carbon adsorbers, overall control efficiency and length of rolling period and all supporting test results/data/calculations used in determining the overall control efficiency; certification of the accuracy of the device that measures the amount of HAP or VOC recovered. [63.752(f)(3)]

Table 2.1 G-5: Maskant Operations	
	4. For incinerators, overall control efficiency; test results, data, and calculations used in determining the overall control efficiency; length of rolling material balance period with data and calculations; record of certification of the accuracy of the device that measures amount of HAP or VOC recovered; or record of carbon replacement time for nonregenerative carbon adsorbers; and incinerator temperature(s). [63.752(f)(4)]
Reporting	Semiannual (6 months from the date of notification of compliance status) 1. Exceedances or organic HAP/VOC limits. [63.753(e)(1) and (2)] 2. Control device exceedances (out of compliance). [63.753(e)(3)] 3. New maskants. [63.753(e)(4)] 4. New control devices. [63.753(e)(5)] 5. Statement certifying compliance. [63.753(e)(6)]

H. Woodworking operation (ID No. A-HP-915-06) with cartridge-type filter system (ID No. CD-15A); Woodworking operation (ID No. A-HP-1202-02) with simple cyclone (ID No. CD-03); and Woodworking operation (ID No. A-HP-1202-04) with simple cyclone (ID No. CD-04)

The following provides a summary of limits and/or standards for the emission source(s) described above.

Pollutant	Limits/Standards	Applicable Regulation
Particulate emissions	Adequate ductwork and properly designed collectors	15A NCAC 02D .0512
Visible emissions	20 percent opacity	15A NCAC 02D .0521

1. 15A NCAC 02D .0512: PARTICULATES FROM MISC. WOOD PRODUCTS FINISHING PLANTS

a. The Permittee shall not cause, allow, or permit particulate matter caused by the working, sanding, or finishing of wood to be discharged from any stack, vent, or building into the atmosphere without providing, as a minimum for its collection, adequate duct work and properly designed collectors. In no case shall the ambient air quality standards be exceeded beyond the property line.

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

b. Particulate matter emissions from these sources shall be controlled as described in Section 2.1 H above. To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include:
   i. monthly external inspection of the ductwork, and cyclones, noting the structural integrity; and
   ii. an annual internal inspection of the cartridge filter system **(ID No. CD-15A),** noting the structural integrity and the condition of the filters.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if the ductwork, cyclones, and cartridge filter are not inspected and maintained.

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

c. The results of inspection and maintenance required by Section 2.1 H.1.b above shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each inspection; and
   iii. the results of maintenance performed on any control device.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if these records are not maintained.

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

d. The Permittee shall submit the results of any maintenance performed on the control devices within 30 days of a written request by the DAQ.

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

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

a. Visible emissions from the woodworking operations listed in Section 2.1 H. shall not be more than 20 percent opacity each when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 H.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

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

c. To ensure compliance, once a month the Permittee shall observe the emission points of each source for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. If visible emissions from this source are observed to be above normal, the Permittee shall either:
   i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
   ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 H.2.a above.

   The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if the required monthly observations are not conducted as required or if the above-normal emissions are not corrected within the monitoring period or the percent opacity demonstration cannot be made.

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

d. The results of the monitoring required by Section 2.1 H.2.c shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each action;
   ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
   iii. the results of any corrective actions performed.

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

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

e. The Permittee shall submit a summary report of the monitoring and recordkeeping required by Sections 2.1 H.c and d above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

I. One abrasive blasting operation (ID No. A-FC-286-11) with fabric filter (ID No. CD-08)

The following provides a summary of limits and/or standards for the emission source(s) described above.

Pollutant	Limits/Standards	Applicable Regulation
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Particulate emissions	Comply with VE limits	15A NCAC 02D .0541

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

a. Visible emissions from this source **(ID No. A-FC-286-11)** shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

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

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

c. To ensure compliance, once a month the Permittee shall observe the emission points of each source for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. If visible emissions from this source are observed to be above normal, the Permittee shall either:
   i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or

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

The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if the required monthly observations are not conducted as required or if the above-normal emissions are not corrected within the monitoring period or the percent opacity demonstration cannot be made.

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

d. The results of the monitoring required by Section 2.1 I.1.c above shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each action;
   ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
   iii. the results of any corrective actions performed.

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

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

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

2. 15A NCAC 02D .0541: CONTROL OF EMISSIONS FROM ABRASIVE BLASTING

a. The Permittee shall ensure that the abrasive blasting operations conducted in this source **(ID No. A-FC-286-11)** and vented to the atmosphere comply with the requirements set forth in 15A NCAC 02D .0521 "Control of Visible Emissions" (see Section 2.1 I.1).

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 I.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0541.

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

c. Particulate matter emissions from this source **(ID No. A-FC-286-11)** shall be controlled by the fabric filter (**ID No. CD-08**). To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
   i. a monthly visual inspection of the system ductwork and material collection unit for leaks; and
   ii. an annual (for each 12-month period following the initial inspection) internal inspection of the filter systems' structural integrity.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0541 if the ductwork and filter are not inspected and maintained.

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

d. The results of inspection and maintenance required by Section 2.1 I.2.c shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each inspection;
   iii. the results of any maintenance performed on the filter systems; and
   iv. any variance from manufacturer's recommendations, if any, and corrections made.

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0541 if these records are not maintained.

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

e. The Permittee shall submit a summary report of monitoring and recordkeeping activities required by Sections 2.1 I.2.c and d, above, postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

J. Two municipal solid waste landfills (ID Nos. A-HP-982-01 (active) and A-FC-18-01 (closed)

The following provides a summary of limits and/or standards for the emission source(s) described above.

Pollutant	Limits/Standards	Applicable Regulation
Landfill design capacity each	**(A-HP-982-01, only)** Less than 2.5 million megagrams and 2.5 million cubic meters Less than 50 Mg of non-methane organic compound emissions	15A NCAC 02D .0524 (40 CFR Part 60, Subpart WWW)
Toxic Air Pollutants	**State Enforceable Only** See Section 2.2 A.1	15A NCAC 02D .1100

1. 15A NCAC 02D .0524: NEW SOURCE PERFORMANCE STANDARDS (40 CFR Part 60, Subpart WWW)

a. For **A-HP-982-01**, the Permittee shall comply with all applicable provisions, including the requirements for emission standards, notification, testing, reporting, record keeping, 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 WWW, “NSPS for Municipal Solid Waste Landfills,” including Subpart A “General Provisions.”

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

b. No monitoring, recordkeeping, or reporting is required for any air emissions from this landfill while the design capacity of the landfill remains below 2.5 million Mg and 2.5 million cubic meters. [40 CFR 60.752(a)(2)]
   i. This facility has evaluated the toxic air pollutants at maximum rates resulting from increasing amounts of waste placed in the landfill over the lifetime of the landfill from 1998 to 2033.

K. Tactical generators located at the Marine Corps Engineer School (used for instructional purposes only, each diesel or F-24-fired, each with less than 282 horsepower) (ID No. B-BB-50-01)

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
NOx+NMHC, CO, and PM	No requirements	15A NCAC 02D .0524 (40 CFR Part 60, Subpart IIII)
Hazardous air pollutants	No requirements	15A NCAC 02D .1111 (40 CFR Part 63, Subpart ZZZZ)
Nitrogen oxides, particulate matter, sulfur dioxide, carbon monoxide, volatile organic compounds	Limit total engine operating time to less than 51,753 hours per consecutive 12-month period.	15A NCAC 02Q .0317 (PSD Avoidance)

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

a. Emissions of sulfur dioxide from this source **(ID No. B-BB-50-01)** shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 K.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

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

c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions when burning diesel or F-24 fuel in this source **(ID No. B-BB-50-01).**

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

a. Visible emissions from this source **(ID No. B-BB-50-01)** shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 K.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

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

c. No monitoring/recordkeeping/reporting is required for visible emissions when burning diesel or F-24 fuel in this source **(ID No. B-BB-50-01)**.

3. 15A NCAC 02D .0524: NEW SOURCE PERFORMANCE STANDARDS (40 CFR Part 60, Subpart IIII)

Applicability [40 CFR 60.4200]

a. For tactical generators at the Marine Corps Engineer School **(ID No. B-BB-50-01**; i.e. stationary CI RICE exempt as described in 40 CFR Part 1068, Subpart C**)**, the Permittee shall comply with all applicable provisions, including the requirements for emission standards, notification, testing, reporting, record keeping, 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 IIII, including Subpart A "General Provisions."

b. Pursuant to §60.4200(d), this source **(ID No. B-BB-50-01)** is exempt from the requirements of 40 CFR Part 60, Subpart IIII.

4. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY (40 CFR Part 63, Subpart ZZZZ)

Applicability [40 CFR 63.6585]

a. For the tactical generators at the Marine Corps Engineer School **(ID No. B-BB-50-01**; i.e. stationary RICE used for national security purposes**)**, the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR Part 63, Subpart ZZZZ, "National Emission Standards for Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines."

b. Pursuant to §63.6585(e), this source **(ID No. B-BB-50-01)** is exempt from the requirements of 40 CFR Part 63, Subpart ZZZZ.

5. 15A NCAC 02Q .0317: AVOIDANCE CONDITIONS
(Avoidance of 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION)

a. In order to avoid applicability of this regulation, the Marine Corps Engineer School **(ID No. B-BB-50-01)** shall discharge into the atmosphere less than the following:
   i. 25 tons of particulate matter (PM);
   ii. 15 tons PM10;
   iii. 10 tons of PM2.5;
   iv. 40 tons of sulfur dioxide;
   v. 40 tons of nitrogen oxides;
   vi. 100 tons of carbon monoxide; and
   vii. 40 tons of volatile organic compounds.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 K.5.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

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

c. In order to demonstrate compliance with the limits in Section 2.1 K.5.a above, the Permittee shall operate the Marine Corps Engineer School **(ID No. B-BB-50-01)** such that the total engine operating time of all engines in the School is less than 51,753 hours per consecutive 12-month period. If the total engine operating time of all engines in the School exceeds this limit, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

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

d. The Permittee shall keep a record (written or electronic format) of the total engine operating time of all engines in the Marine Corps Engineer School **(ID No. B-BB-50-01)**. At the end of each calendar month, the Permittee shall calculate:
   i. the monthly total engine operating time for that month; and
   ii. the rolling 12-month total engine operating time for the 12-month period ending on that month.
   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if these monitoring requirements are not met.

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

e. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of the monitoring and recordkeeping activities required by Section 2.1 K.5.d 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 monthly and rolling 12-month total hours of engine operating time over the previous 17 months.

L. Two outboard motor testing tanks (ID Nos. B-BB-A72-04 and B-BB-A72-05)

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

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

a. Emissions of sulfur dioxide from these sources **(ID Nos. B-BB-A72-04 and B-BB-A72-05)** shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 L.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

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

c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions when burning diesel, gasoline, JP-5, and/or F-24 in these sources **(ID Nos. B-BB-A72-04 and B-BB-A72-05)**.

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

a. Visible emissions from these sources **(ID Nos. B-BB-A72-04 and B-BB-A72-05)** shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 L.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

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

c. No monitoring/recordkeeping/reporting is required for visible emissions when burning diesel, gasoline, JP-5, and/or F-24 in these sources **(ID Nos. B-BB-A72-04 and B-BB-A72-05)**.

M. Site remediation activities (ID Nos. A-REMED and C-REMED)

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

Pollutant	Limits/Standards	Applicable Regulation
Hazardous Air Pollutants	Recordkeeping	15A NCAC 02D .1111 40 CFR Part 63 Subpart GGGGG

1. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

a. For the site remediation systems listed above, the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR Part 63, Subpart GGGGG "National Emission Standards for Hazardous Air Pollutants: Site Remediation." [40 CFR 63.7881]

Definitions and Nomenclature

b. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.7957 shall apply.

General Provisions

c. The Permittee shall comply with the requirements of 40 CFR Part 63 Subpart A "General Provisions" according to the applicability of Subpart A to such sources, as identified in Table 3 of 40 CFR Part 63, Subpart GGGGG.

General Standards and Process Vents [40 CFR 63.7885; 40 CFR 63.7890]

d. For the process vents that comprise the affected source designated under 40 CFR 63.7882, the Permittee shall reduce the total emissions of HAP listed in Table 1 of 40 CFR Subpart GGGGG to a level less than 3.0 pounds per hour and 3.1 tons per year. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these requirements are not met.

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

e. i. The Permittee has demonstrated compliance with the emission limit in Section 2.1 M.1.d above (test reference number 2018-230ST). [40 CFR 63.7891(b)(1)]
   ii. If additional emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limits given in Sections 2.1 M.1.d above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111.

Monitoring/Recordkeeping Requirements [40 CFR 63.7935; 40 CFR 63.7946]

f. The Permittee shall monitor and collect data according to the facility's site-specific monitoring plan required in 40 CFR 63.7935.
   i. The Permittee be in compliance with the emissions limitations (including operating limits) and the work practice standards in this subpart at all times, except during periods of startup, shutdown, and malfunction.
   ii. The Permittee shall always operate and maintain the affected source, including air pollution control and monitoring equipment, according to the provisions in 40 CFR 63.6(e)(1)(i).
   iii. The Permittee must develop a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in 40 CFR 63.6(e)(3).
   iv. The Permittee shall report each instance in which the Permittee did not meet each emissions limitation and each operating limit that applies to the Permittee. This includes periods of startup, shutdown, and malfunction. The Permittee shall also report each instance in which The Permittee did not meet the requirements for work practice standards that apply to the Permittee. These instances are deviations from the emissions limitations and work practice standards in this subpart. These deviations must be reported according to the requirements in §63.7951.
   v. Consistent with 40 CFR 63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if the Permittee demonstrate to the Administrator's satisfaction that the Permittee were operating in accordance with 40 CFR 63.6(e)(1). The Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in 40 CFR 63.6(e).
   vi. For each monitoring system required in this section, The Permittee shall develop and make available for inspection by the permitting authority, upon request, a site-specific monitoring plan that addresses the following:

(A) Installation of the continuous monitoring system sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device).
(B) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system.
(C) Performance evaluation procedures and acceptance criteria (e.g., calibrations).

vii. The site-specific monitoring plan shall address the following:
(A) Ongoing operation and maintenance procedures according to the general requirements of 40 CFR 63.8(c)(1), (3), (4)(ii), (7), and (8).
(B) Ongoing data quality assurance procedures according to the general requirements of §63.8(d).
(C) Ongoing recordkeeping and reporting procedures according to the general requirements of §63.10(c), (e)(1), and (e)(2)(i).

viii. The Permittee shall operate and maintain the continuous monitoring system according to the site-specific monitoring plan.

ix. The Permittee shall conduct a performance evaluation of each continuous monitoring system according to the site-specific monitoring plan.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in Section 2.1 M.1.f are not met.

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

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

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

A. Facility-wide Emission Sources:

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 (application no. 6700011.11C) for an air toxic compliance demonstration, the permit limits in Attachment A to application no. 6700011.11C, excluding sources subject to a rule under 40 CFR Part 63 (e.g., Subpart ZZZZ), shall not be exceeded.

Monitoring/Recordkeeping/Reporting

b. No monitoring, recordkeeping or reporting is required.

STATE ENFORCEABLE ONLY

2. 15A NCAC 02D .1100: CONTROL OF TOXIC AIR POLLUTANTS

Applicability

a. These sources are subject to 15A NCAC 02D .1100 "Control of Toxic Air Pollutants" but have not been considered in an evaluation pursuant to 15A NCAC 02Q .0706 "Modifications."

b. The Division shall notify the Permittee 60 days prior to reopening the permit, if necessary, to establish emission limitations, monitoring, recordkeeping or reporting necessary to ensure compliance with 15A NCAC 02D .1100. [NCGS 143-215.108(c)]

B. The following sources subject to PSD Avoidance requirements:

Table 2.2 B-1: Generators and Test Stands Subject to PSD Avoidance:

Emission Source	Source Description
C-RR-134-01	Diesel-fired Emergency Generator (400 kW) (591 hp)
C-RR-400-05	Diesel-fired emergency generator (1250 kW) (1848 hp)
C-RR-425-01	Diesel-fired Emergency Generator (400 kW)
C-RR-430-01	Diesel, gasoline, JP-5, or F-24-fired Internal Combustion Engine test stand (55 HP)
C-RR-430-02	Diesel, gasoline, JP-5, or F-24-fired Internal Combustion Engine test stand (55 HP)
C-RR-430-05	Diesel-fired Emergency Generator (600 kW)
C-RR-440-01	Diesel-fired emergency generator (200 kW) (311 hp)
A-HP-24C-01	Diesel-fired Emergency Generator (150 kW)

1. 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, the sources in Table 2.2 B-1 shall discharge into the atmosphere less than 40 tons of nitrogen oxides total, per consecutive 12-month period.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.2 B.1.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

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

c. In order to ensure compliance with the above avoidance limit, the following operational limits shall apply:

i. the Permittee shall limit the operation of the emergency generators in Table 2.2 B-1 to less than 350 hours per consecutive 12-month period, each; and
ii. the Permittee shall limit the operation of the two test stands **(ID Nos. C-RR-430-01 and C-RR-430-02)** to less than 180 hours per consecutive 12-month period, each.

If the Permittee operates these sources greater than the hours per year in Section 2.2 B.1.c, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

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

d. In order to ensure the enforceability of the operational limits set forth above, the Permittee shall maintain the following records:
i. the hours of operation of each source listed in Table 2.2 B-1.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if these records are not maintained.

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

e. The Permittee shall submit a summary report of the 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 must be clearly identified. The report shall contain the following:
i. the monthly hours of operation for each source listed in Table 2.2 B-1 for the previous 17 months;
ii. the total hours of operation for each source listed in Table 2.2 B-1 calculated for each of the 12-month periods over the previous 17 months;
iii. the total monthly nitrogen oxide emissions from the sources listed in Table 2.2 B-1 for the previous 17 months; and
iv. the total nitrogen oxide emissions from the sources listed in Table 2.2 B-1 calculated for each of the 12-month periods over the previous 17 months.

C. The following sources are subject to PSD Avoidance requirements: One diesel/F-24-fired internal combustion engine test stand (A-FC-280-23); and One diesel-fired generator (A-FC-280-24).

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

a. In order to avoid applicability of this regulation, these emission sources **(ID Nos. A-FC-280-23 and A-FC-280-24)** shall discharge into the atmosphere less than 40 tons of nitrogen oxides per consecutive 12-month period.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.2 C.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

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

c. The Permittee shall operate each source no more than 3,016 hours per year. If the Permittee operates these sources greater than 3,016 hours per year, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

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

d. The Permittee shall measure and record (written or electronic format), on a monthly basis:
i. the monthly and rolling 12-month total number of hours of operation of each of these sources **(ID Nos. A-FC-280-23 and A-FC-280-24)**.
ii. the monthly and rolling 12-month total actual nitrogen oxide emissions from each of these sources **(ID Nos. A-FC-280-23 and A-FC-280-24)**.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if these monitoring requirements are not met.

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

e. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of the monitoring and recordkeeping activities given in Section 2.2 C.1.d 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. The monthly and rolling 12-month total hours of operation for each source over the previous 17 months; and
ii. The monthly and rolling 12-month total nitrogen oxide emissions for the previous 17 months.

D. The following sources subject to PSD Avoidance requirements: One diesel/F-24-fired turbine engine test stand (A-FC-280-25); One diesel/JP-5/F-24-fired internal combustion engine test stand (A-FC-280-07); and One diesel-fired generator (A-FC-280-26)

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

a. In order to avoid applicability of this regulation, these emission sources **(ID Nos. A-FC-280-25, A-FC-280-07, and A-FC-280-26)** the above emission sources shall discharge into the atmosphere less than 40 tons of nitrogen oxides per consecutive 12-month period.

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.2 D.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

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

c. The Permittee shall operate each of these emission sources **(ID Nos. A-FC-280-25, A-FC-280-07, and A-FC-280-26)** no more than 500 hours per year. If the Permittee operates any of these sources greater than 500 hours per year, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

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

d. The Permittee shall measure and record (written or electronic format), on a monthly basis:
   i. the monthly and rolling 12-month total number of hours of operation of each of these emission sources **(ID Nos. A-FC-280-25, A-FC-280-07, and A-FC-280-26)**; and
   ii. the monthly and rolling 12-month total actual nitrogen oxide emissions from each of these emission sources **(ID Nos. A-FC-280-25, A-FC-280-07, and A-FC-280-26).**

   The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if these monitoring requirements are not met.

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

e. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of the monitoring and recordkeeping activities required by Section 2.2 D.1.d 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. The monthly and rolling 12-month total hours of operation for each source over the previous 17 months; and
   ii. The monthly and rolling 12-month total nitrogen oxide emissions for the previous 17 months.

SECTION 3 - Insignificant Activities per 15A NCAC 02Q .0503(8)

Emission Source ID No.	Emission Source Description[1,2]
Storage Tanks	
I-A-FC-100-03A	Storage tank (F-24, AST)
I-A-FC-100-04A	Storage tank (F-24, AST)
I-A-FC-241-02A	Storage tank (F-24, AST)
I-A-FC-241-05A	Storage tank (diesel fuel, AST)
I-A-FC-280-01A	Storage tank (F-24, AST)
I-A-FC-280-03A	Storage tank (F-24, AST)
I-A-FC-298-01U	Storage tank (gasoline, UST)
I-A-FC-298-02U	Storage tank (gasoline, UST)
I-A-FC-298-03U	Storage tank (gasoline, UST)
I-A-FC-442-01A	Storage tank (diesel fuel, AST)
I-A-FC-443-03A	Storage tank (diesel fuel, AST)
I-A-FC-445-01A	Storage tank (diesel fuel, AST)
I-A-HP-1232-01U	Storage tank (gasoline, UST)
I-A-HP-1232-02U	Storage tank (gasoline, UST)
I-A-HP-1232-03U	Storage tank (gasoline, UST)
I-A-HP-1232-04U	Storage tank (gasoline, UST)
I-A-HP-1232-05U	Storage tank (diesel fuel, UST)
I-A-HP-1613-01A	Storage tank (gasoline, AST)
I-A-HP-1613-02A	Storage tank (gasoline, AST)
I-A-HP-1613-03A	Storage tank (gasoline, AST)
I-A-HP-1765-01A	Storage tank (fuel oil, AST)
I-A-HP-590-01A	Storage tank (diesel fuel, AST)
I-A-HP-961-01A	Storage tank (gasoline, AST)
I-A-HP-961-02A	Storage tank (gasoline, AST)
I-A-HP-961-03A	Storage tank (biodiesel, AST)
I-A-HP-961-04A	Storage tank (diesel fuel, AST)
I-A-HP-961-05A	Storage tank (diesel fuel, AST)
I-A-HP-961-06A	Storage tank (diesel fuel, AST)
I-A-HP-989-01A	Storage tank (fuel oil, AST)
I-A-HP-H1-02A	Storage tank (diesel fuel, AST)
I-A-HP-S1735-01A	Storage tank (fuel oil, AST)
I-A-HP-S971-01A	Storage tank (kerosene, AST)
I-A-HP-S973-01A	Storage tank (F-24, AST)
I-A-LCH-4034-01A	Storage tank (gasoline, AST)
I-A-LCH-4034-02A	Storage tank (gasoline, AST)
I-A-LCH-4034-03A	Storage tank (gasoline, AST)
I-A-MP-119-01A	Storage tank (diesel fuel, AST)
I-A-MP-230-01	Storage tank (fuel oil, AST)

Emission Source ID No.	Emission Source Description[1,2]
Storage Tanks	
I-A-MP-230-02A	Storage tank (fuel oil, AST)
I-A-MP-90-01A	Storage tank (F-24, AST)
I-A-MP-90-02A	Storage tank (F-24, AST)
I-A-MP-90-03A	Storage tank (gasoline, AST)
I-A-NH-100-02A	Storage tank (diesel fuel, AST)
I-A-NH-100-03A	Storage tank (diesel fuel, AST)
I-A-NH-100-04A	Storage tank (diesel fuel, AST)
I-A-NH-100-06A	Storage tank (diesel fuel, AST)
I-A-NH-100-07A	Storage tank (diesel fuel, AST)
I-A-NH-100-08A	Storage tank (diesel fuel, AST)
I-A-NH-100-09A	Storage tank (diesel fuel, AST)
I-A-NH-118-01A	Storage tank (gasoline, AST)
I-A-PG-TP457-01A	Storage tank (fuel oil, AST)
I-A-PP-1943-01A	Storage tank (diesel fuel, AST)
I-A-PP-820-01U	Storage tank (diesel fuel, UST)
I-A-PP-820-02U	Storage tank (gasoline, UST)
I-A-PP-820-03U	Storage tank (gasoline, UST)
I-A-PP-820-04U	Storage tank (gasoline, UST)
I-A-PP-825-01A	Storage tank (fuel oil, AST)
I-A-SA-52-01A	Storage tank (F-24, AST)
I-A-SA-52-02A	Storage tank (F-24, AST)
I-A-SA-52-03A	Storage tank (F-24, AST)
I-A-SA-52-04A	Storage tank (F-24, AST)
I-A-SA-77-01A	Storage tank (F-24, AST)
I-A-TT-2463-01A	Storage tank (diesel fuel, AST)
I-A-TT-2478-01U	Storage tank (gasoline, UST)
I-A-TT-2478-02U	Storage tank (gasoline, UST)
I-A-TT-2478-03U	Storage tank (gasoline, UST)
I-A-TT-2478-04U	Storage tank (diesel fuel, UST)
I-B-A-1-01A	Storage tank (fuel oil, AST)
I-B-A-47-01A	Storage tank (diesel fuel, AST)
I-B-BA-134-01A	Storage tank (gasoline, AST)
I-B-BB-102-02A	Storage tank (F-24, AST)
I-B-BB-177-01U	Storage tank (gasoline, UST)
I-B-BB-177-02U	Storage tank (gasoline, UST)
I-B-BB-177-03U	Storage tank (gasoline, UST)
I-B-BB-246-01A	Storage tank (gasoline, AST)
I-C-AS-122-01A	Storage tank (diesel fuel, AST)
I-C-AS-143-01A	Storage tank (gasoline, AST)
I-C-AS-146-01A	Storage tank (JP-5 recovered product, AST)

Emission Source ID No.	Emission Source Description[1,2]
Storage Tanks	
I-C-AS-212-01A	Storage tank (diesel fuel, AST)
I-C-AS-2820-01A	Storage tank (gasoline, AST)
I-C-AS-3504-01A	Storage tank (fuel oil, AST)
I-C-AS-3625-01A	Storage tank (fuel oil, AST)
I-C-AS-4135-01A	Storage tank (gasoline, AST)
I-C-AS-4135-02A	Storage tank (F-24, AST)
I-C-AS-4159-02A	Storage tank (F-24, AST)
I-C-AS-4159-03A	Storage tank (F-24, AST)
I-C-AS-498-01U	Storage tank (JP-5, UST)
I-C-AS-498-02U	Storage tank (JP-5, UST)
I-C-AS-512-01U	Storage tank (JP-5, UST)
I-C-AS-512-02U	Storage tank (JP-5, UST)
I-C-AS-705-01U	Storage tank (fuel oil, UST)
I-C-CG-TC1500-01A	Storage tank (diesel fuel, AST)
I-C-CG-TC365-01A	Storage tank (gasoline, AST)
I-C-CG-TC365-02A	Storage tank (diesel fuel, AST)
I-C-CG-TC365-03A	Storage tank (F-24, AST)
I-C-CG-TC365-04A	Storage tank (F-24, AST)
I-C-CG-TC365-06A	Storage tank (E85, AST)
I-C-RR-15-01A	Storage tank (fuel oil, AST)
I-C-RR-15-02A	Storage tank (fuel oil, AST)
I-C-RR-15-03A	Storage tank (fuel oil, AST)
I-C-RR-15-04A	Storage tank (gasoline, AST)
I-C-RR-15-05A	Storage tank (diesel fuel, AST)

Emission Source ID No.	Emission Source Description[1,2]
Welding	
I-A-FC-100-07	Welding
I-A-FC-143-02	Welding
I-A-FC-200-05	Welding
I-A-FC-286-10	Welding
I-A-FC-286-14	Welding
I-A-FC-286-15	Welding
I-A-FC-40-03	Welding
I-A-FC-441-01	Welding
I-A-HP-1202-06	Welding
I-A-HP-1202-10	Welding
I-A-HP-1249-05	Welding
I-A-HP-40a-01	Welding
I-A-HP-1502-10	Welding

Emission Source ID No.	Emission Source Description[1,2]
Welding	
I-A-HP-1765-02	Welding
I-A-HP-1829-01	Welding
I-A-HP-575-11	Welding
I-A-NH-100-13	Welding
I-B-A-A47-06	Welding
I-B-A-A66-01	Welding
I-B-BB-51-04	Welding
I-B-BB-362-10	Welding
I-C-AS-114-02	Welding
I-C-AS-122-01	Welding
I-C-AS-4106-06	Welding
I-C-AS-4135-02	Welding
I-C-AS-4146-06	Welding
I-C-AS-4158-01	Welding
I-C-AS-518-01	Welding
I-C-RR-430-03	Welding
I-C-RR-455-01	Welding
I-D-SR-54-01	Welding

Emission Source ID No.	Emission Source Description[1,2]
Parts Cleaners	
I-A-DEGR-ZONE-A	Parts cleaners, non-aqueous
I-A-PNTGNCLNR-ZONE-A	Parts cleaners, enclosed paint gun cleaner
I-B-DEGR-ZONE-B	Parts cleaners, non-aqueous
I-C-DEGR-ZONE-C	Parts cleaners, non-aqueous
I-C-PNTGNCLNR-ZONE-C	Parts cleaners, enclosed paint gun cleaner

Emission Source ID No.	Emission Source Description[1,2]
Paint Booths	
I-A-HP-1016-01	Paint booth
I-A-HP-40-01	Paint booth
I-C-AS-255-01	Paint booth
I-C-AS-265-01	Paint booth
I-C-AS-4135-07, I-C-AS-4135-08	Dry filter paint spray booth with natural gas-fired make up air heater rated at 1.2 million Btu per hour
I-C-AS-4146-10, I-C-AS-4146-11	Dry filter paint spray booth with natural gas-fired make up air heater rated at 1.2 million Btu per hour
I-D-SR-46-01	Paint booth

Emission Source ID No.	Emission Source Description[1,2]
Fuel Dispensing	
I-A-DISP-DIESEL	Consolidated Fuel Dispensing – Diesel, Zone A
I-A-DISP-E85	Consolidated Fuel Dispensing –E85, Zone A
I-A-DISP-GAS	Consolidated Fuel Dispensing – Gasoline, Zone A
I-A-DISP-F24	Consolidated Fuel Dispensing – F-24, Zone A
I-B-DISP-DIESEL	Consolidated Fuel Dispensing – Diesel, Zone B
I-B-DISP-GAS	Consolidated Fuel Dispensing – Gasoline, Zone B
I-B-DISP-F24	Consolidated Fuel Dispensing – F-24, Zone B
I-C-DISP-DIESEL	Consolidated Fuel Dispensing – Diesel, Zone C
I-C-DISP-GAS	Consolidated Fuel Dispensing – Gasoline, Zone C
I-C-DISP-JP5	Consolidated Fuel Dispensing – JP-5, Zone C
I-C-DISP-F24	Consolidated Fuel Dispensing – F-24, Zone C

Emission Source ID No.	Emission Source Description[1,2]
Small Boilers and Water Heaters	
I-A-BL-NG **[MACT DDDDD]**	30 small natural gas-fired boilers located in Zone A (each less than 11.6 million Btu per hour heat input) [MACT, DDDDD]
I-A-WH-NG	738 small natural gas-fired water heaters located in Zone A (each less than 11.6 million Btu per hour heat input and meeting the definition of "hot water heater" in 40 CFR 63.7575)
I-A-WH-OIL	6 small No. 2 fuel oil-fired water heaters located in Zone A (each less than 7.87 million Btu per hour heat input and meeting the definition of "hot water heater" in 40 CFR 63.7575)
I-A-WH-P	2 small propane/LPG-fired water heaters located in Zone A (each less than 7.99 million Btu per hour heat input and meeting the definition of "hot water heater" in 40 CFR 63.7575)
I-B-BL-NG **[MACT DDDDD]**	11 small natural gas-fired boilers located in Zone B (each less than 11.6 million Btu per hour heat input) [MACT, DDDDD]
I-B-WH-NG	25 small natural gas-fired water heaters located in Zone B (each less than 11.6 million Btu per hour heat input and meeting the definition of "hot water heater" in 40 CFR 63.7575)
I-B-WH-OIL	3 small No. 2 fuel oil-fired water heaters located in Zone B (each less than 7.87 million Btu per hour heat input and meeting the definition of "hot water heater" in 40 CFR 63.7575)
I-B-WH-P	2 small propane/LPG-fired water heaters located in Zone B (each less than 7.99 million Btu per hour heat input and meeting the definition of "hot water heater" in 40 CFR 63.7575)
I-C-BL-NG **[MACT DDDDD]**	7 small natural gas-fired boilers located in Zone C (each less than 11.6 million Btu per hour heat input) [MACT DDDDD]
I-C-WH-NG	303 small natural gas-fired water heaters located in Zone C (each less than 11.6 million Btu per hour heat input and meeting the definition of "hot water heater" in 40 CFR 63.7575)
I-C-WH-P	75 small propane/LPG-fired water heaters located in Zone C (each less than 7.99 million Btu per hour heat input and meeting the definition of "hot water heater" in 40 CFR 63.7575)
I-C-WH-OIL	6 small No. 2 fuel oil-fired water heaters located in Zone C (each less than 7.87 million Btu per hour heat input and meeting the definition of "hot water heater" in 40 CFR 63.7575)

Emission Source ID No.	Emission Source Description[1,2]
Emergency-use Engines	
I-A-EGEN-NEW **[MACT ZZZZ; NSPS IIII]**	100 small diesel-fired emergency-use reciprocating internal combustion engines located in Zone A and subject to NSPS Subpart IIII (each less than 893 horsepower) [MACT ZZZZ; NSPS IIII]
I-A-EGEN-EX **[MACT, ZZZZ]**	100 small diesel-fired emergency-use reciprocating internal combustion engines located in Zone A and not subject to NSPS Subpart IIII (each less than 893 horsepower) [MACT ZZZZ]
I-A-FC-442-03A **[MACT ZZZZ; NSPS IIII]**	Diesel-fired emergency generator (1,528 horsepower) [MACT ZZZZ; NSPS IIII]
I-A-FC-443-02A **[MACT ZZZZ; NSPS IIII]**	Diesel-fired emergency generator (1,207 horsepower) [MACT ZZZZ; NSPS IIII]
I-A-FC-445-02A **[MACT ZZZZ; NSPS IIII]**	Diesel-fired emergency generator (1,207 horsepower) [MACT ZZZZ; NSPS IIII]
I-B-EGEN-NEW **[MACT ZZZZ; NSPS IIII]**	11 small diesel-fired emergency-use reciprocating internal combustion engines located in Zone B and subject to NSPS Subpart IIII (each less than 893 horsepower) [MACT ZZZZ; NSPS IIII]
I-B-EGEN-EX **[MACT ZZZZ]**	10 small diesel-fired emergency-use reciprocating internal combustion engines located in Zone B and not subject to NSPS Subpart IIII (each less than 893 horsepower) [MACT ZZZZ]
I-C-AS-SAS120L-01 **[MACT ZZZZ; NSPS, JJJJ]**	Natural gas-fired emergency generator (60 horsepower) [MACT ZZZZ; NSPS JJJJ]
I-A-MP-RS27-01 **MACT ZZZZ, NSPS JJJJ**	Natural gas-fired emergency generator (XX horsepower)
I-A-MP-RS27-02 **MACT ZZZZ; NSPS, JJJJ**	Natural gas-fired emergency generator (XX horsepower)
I-A-MP-RS27-03 **MACT ZZZZ, NSPS JJJJ**	Natural gas-fired emergency generator (XX horsepower)
I-A-MP-RS27-04 **MACT ZZZZ, NSPS JJJJ**	Natural gas-fired emergency generator (XX horsepower)
I-A-MP-RS27-05 **MACT ZZZZ, NSPS JJJJ**	Natural gas-fired emergency generator (XX horsepower)
I-C-AS-256-02 **[MACT ZZZZ; NSPS IIII]**	Diesel-fired emergency generator (1,214 horsepower) [MACT ZZZZ; NSPS IIII]
I-C-EGEN-NEW **[MACT ZZZZ; NSPS IIII]**	38 small diesel-fired emergency-use reciprocating internal combustion engines located in Zone C and subject to NSPS Subpart IIII (each less than 893 horsepower) [MACT ZZZZ; NSPS IIII]
I-C-EGEN-EX **[MACT ZZZZ]**	58 small diesel-fired emergency-use reciprocating internal combustion engines located in Zone C and not subject to NSPS Subpart IIII (each less than 893 horsepower) [MACT ZZZZ]
I-D-EGEN-NEW **[MACT ZZZZ; NSPS IIII]**	4 small diesel-fired emergency-use reciprocating internal combustion engines located in Zone D and subject to NSPS Subpart IIII (each less than 893 horsepower) [MACT ZZZZ; NSPS IIII]
I-D-EGEN-EX **[MACT ZZZZ]**	3 small diesel-fired emergency-use reciprocating internal combustion engines located in Zone D and not subject to NSPS Subpart IIII (each less than 893 horsepower) [MACT ZZZZ]

Emission Source ID No.	Emission Source Description[1,2]
Miscellaneous	
I-A-FC-286-16	Dry ice blasting cleaning operation
I-A-FC-440-01	Wastewater treatment facility
I-A-FC-SFC553A-01	Undercoat tent

Emission Source ID No.	Emission Source Description[1,2]
Miscellaneous	
I-A-HP-1016-02	Woodworking operation
I-A-HP-1249-06	Grinding
I-A-HP-20-03	Lime storage
I-A-HP-670-01	Lime storage
I-A-HP-670-02	Lime storage
I-A-HP-84-02	Screen printing
I-A-PG-978-01	Diesel-fired expended ordnance deformer (80 hp)
I-A-PG-978-02	Propane-fired safety certification unit (16 hp propane-fired generator with propane burner)
I-B-BB-A72-06	Boat repair/patch operations
I-C-AS-265-02	Epoxy Curing Bench
I-C-AS-3900-04	Corrosion control-blade repair curing table
I-C-AS-4100-01	Aircraft fuselage panel repair curing table
I-C-AS-4106-02	Temporary sanding operation with portable dust collectors
I-C-AS-514-03	Closed-loop water treatment system
I-C-AS-514-04	Natural gas-fired pressure washer
I-C-AS-514-05	Natural gas-fired pressure washer
I-C-AS-516-02	Aircraft fuselage panel repair curing table
I-C-AS-518-14	Natural gas-fired direct contact heater (2.646 million Btu per hour heat input capacity)
I-C-RR-149-01	Woodworking operations
I-C-RR-480-01	Woodworking operations
I-WC-S770-01	Portable incinerator for Law Enforcement

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

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

SECTION 4 - GENERAL CONDITIONS (version 7.0, 08/21/2023)

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

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

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

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

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

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

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

E. **Duty to Comply** [15A NCAC 02Q .0508(i)(3)]
The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition except conditions identified as state-only requirements constitutes a violation of the Federal Clean Air Act. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

F. **Circumvention** - STATE ENFORCEABLE ONLY
The facility shall be properly operated and maintained at all times in a manner that will effect an overall reduction in air pollution. Unless otherwise specified by this permit, no emission source may be operated without the concurrent operation of its associated air pollution control device(s) and appurtenances.

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

H. **Changes Not Requiring Permit Modifications**
1. Reporting Requirements [15A NCAC 02Q .0508(f)]
Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:
   a. changes in the information submitted in the application;
   b. changes that modify equipment or processes; or
   c. changes in the quantity or quality of materials processed.

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

I.A **Reporting Requirements for Excess Emissions** [15A NCAC 02D .0535(f) and 02Q .0508(f)(2)]

1. "Excess Emissions" - means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections .0500, .0900, .1200, or .1400 of Subchapter 02D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 02Q .0700. *(Note: Definitions of excess emissions under 02D .1110 and 02D .1111 shall apply where defined by rule.)*
2. If a source is required to report excess emissions under NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or the operating permit provides for periodic (e.g., quarterly) reporting of excess emissions, reporting shall be performed as prescribed therein.
3. If the source is not subject to NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 02D .0535 as follows:
   a. Pursuant to 15A NCAC 02D .0535, if excess emissions last for more than four hours resulting from a malfunction, a breakdown of process or control equipment, or any other abnormal condition, the owner or operator shall:
      i. notify the Regional Supervisor or Director of any such occurrence by 9:00 a.m. Eastern Time of the Division's next business day of becoming aware of the occurrence and provide:
         - name and location of the facility;
         - nature and cause of the malfunction or breakdown;
         - time when the malfunction or breakdown is first observed;
         - expected duration; and
         - estimated rate of emissions;
      ii. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished; and
      iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 02D .0535(f)(3).

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

1. "Permit Deviations" - for the purposes of this condition, any action or condition not in accordance with the terms and conditions of this permit including those attributable to upset conditions as well as excess emissions as defined above lasting less than four hours.
2. Pursuant to 15A NCAC 02Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) quarterly by notifying the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 02D .0535. A written report to the Regional Supervisor shall include the probable cause of such deviation and any corrective actions or preventative actions taken. The responsible official shall certify all deviations from permit requirements.

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

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

1. Any excess emissions that do not occur during start-up and shut-down shall be considered a violation of the appropriate rule unless the owner or operator of the sources demonstrates to the Director that the excess emissions are a result of a malfunction. The Director shall consider, along with any other pertinent information, the criteria contained in 15A NCAC 02D .0535(c)(1) through (7).
2. 15A NCAC 02D .0535(g). Excess emissions during start-up and shut-down shall be considered a violation of the appropriate rule if the owner or operator cannot demonstrate that excess emissions are unavoidable.

J. **RESERVED**

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

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

L. **Need to Halt or Reduce Activity Not a Defense** [15A NCAC 02Q .0508(i)(4)]
It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

M. **Duty to Provide Information (submittal of information)** [15A NCAC 02Q .0508(i)(9)]
1. The Permittee shall furnish to the DAQ, in a timely manner, any reasonable information that the Director may request in **writing** to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.
2. The Permittee shall furnish the DAQ copies of records required to be kept by the permit when such copies are requested by the Director. For information claimed to be confidential, the Permittee may furnish such records directly to the EPA upon request along with a claim of confidentiality.

N. **Duty to Supplement** [15A NCAC 02Q .0507(f)]
The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the DAQ. The Permittee shall also provide additional information as necessary to address any requirement that becomes applicable to the facility after the date a complete permit application was submitted but prior to the release of the draft permit.

O. **Retention of Records** [15A NCAC 02Q .0508(f) and 02Q .0508(l)]
The Permittee shall retain records of all required monitoring data and supporting information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring information, and copies of all reports required by the permit. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. Any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request.

P. **Compliance Certification** [15A NCAC 02Q .0508(n)]
The Permittee shall submit to the DAQ and the EPA (Air Enforcement Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303 or through the EPA CEDRI) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all terms and conditions in the permit (including emissions limitations, standards, or work practices), except for conditions identified as being State-enforceable Only. It shall be the responsibility of the current owner to submit a compliance certification for the entire year regardless of who owned the facility during the year. The compliance certification shall comply with additional requirements as may be specified under Sections 114(a)(3) or 504(b) of the Federal Clean Air Act. The compliance certification shall specify:
1. the identification of each term or condition of the permit that is the basis of the certification;
2. the compliance status (with the terms and conditions of the permit for the period covered by the certification);
3. whether compliance was continuous or intermittent;
4. the method(s) used for determining the compliance status of the source during the certification period;
5. each deviation and take it into account in the compliance certification; and
6. as possible exceptions to compliance, any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 (CAM) occurred.

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

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

d. the ability of the Director or the EPA under Section 114 of the Federal Clean Air Act to obtain information to determine compliance of the facility with its permit.

3. A permit shield does not apply to any change made at a facility that does not require a permit or permit revision made under 15A NCAC 02Q .0523.
4. A permit shield does not extend to minor permit modifications made under 15A NCAC 02Q .0515.

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

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

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

V. **Inspection and Entry** [15A NCAC 02Q .0508(l) and NCGS 143-215.3(a)(2)]
1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
   a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
   b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
   c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
   d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.

   Nothing in this condition shall limit the ability of the EPA to inspect or enter the premises of the Permittee under Section 114 or other provisions of the Federal Clean Air Act.
2. No person shall refuse entry or access to any authorized representative of the DAQ who requests entry for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

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

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

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

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

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

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

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

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

EE. **National Emission Standards Asbestos – 40 CFR Part 61, Subpart M** [15A NCAC 02D .1110]
The Permittee shall comply with all applicable standards for demolition and renovation activities pursuant to the requirements of 40 CFR Part 61, Subpart M. The permittee shall not be required to obtain a modification of this permit in order to perform the referenced activities.

FF. **Title IV Allowances** [15A NCAC 02Q .0508(i)(1)]
This permit does not limit the number of Title IV allowances held by the Permittee, but the Permittee may not use allowances as a defense to noncompliance with any other applicable requirement. The Permittee's emissions may not exceed any allowances that the facility lawfully holds under Title IV of the Federal Clean Air Act.

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

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

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

the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.

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

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

KK. **Reopening for Cause** [15A NCAC 02Q .0517]

1. A permit shall be reopened and revised under the following circumstances:
    a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
    b. additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
    c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
    d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 02Q .0513(c).
3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 02Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 02Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.

4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

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

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

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

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

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