

ROY COOPER  
Governor

MICHAEL S. REGAN  
Secretary

MICHAEL ABRACZINSKAS  
Director



NORTH CAROLINA  
Environmental Quality

December 9, 2019

Mr. John Townson  
Director, Environmental Management Division  
MCIEAST-Marine Corps Base Camp Lejeune  
12 Post Lane  
COMMANDING GENERAL ATTN: EMD  
Camp Lejeune, North Carolina 28547

SUBJECT: Air Quality Permit No. 06591T41  
Facility ID: 6700011  
MCIEAST-Marine Corps Base Camp Lejeune  
Camp Lejeune, Onslow County, North Carolina  
Fee Class: Title V  
PSD Status: Major

Dear Mr. Townson:

In accordance with your completed Air Quality Permit Application for the renewal of your Title V Permit, received September 27, 2018, and for administrative amendment, received September 25, 2019, we are forwarding herewith Air Quality Permit No. 06591T41 to the MCIEAST-Marine Corps Base Camp Lejeune, located at Camp Lejeune, North Carolina, 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 listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3. The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.

As the designated responsible official it is your responsibility to review, understand, and abide by all of the terms and conditions of the attached permit. It is also your responsibility to ensure that any person who operates any emission source and associated air pollution control device subject to any term or condition of the attached permit reviews, understands, and abides by the 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 request a formal adjudicatory hearing within 30 days following receipt of this permit, identifying the specific issues to be contested. This hearing request must be in the form of a written petition, conforming to NCGS (North Carolina General Statutes) 150B-23, and filed with both the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714 and the Division of Air Quality, Permitting Section, 1641 Mail Service Center, Raleigh, North Carolina 27699-1641. The form for requesting a formal adjudicatory hearing may be obtained upon request from the Office of Administrative Hearings. Please note that this permit will be stayed in its entirety upon receipt of the request for a hearing. Unless a request for a hearing is made pursuant to NCGS 150B-23, this Air Quality Permit shall be final and binding 30 days after issuance.



North Carolina Department of Environmental Quality | Division of Air Quality

217 West Jones Street | 1641 Mail Service Center | Raleigh, North Carolina 27699-1641

919.707.8400

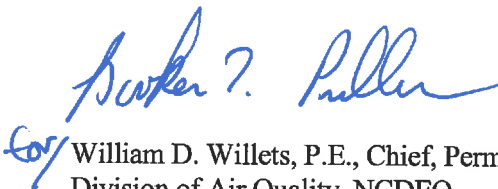
You may request modification of your Air Quality Permit through informal means pursuant to NCGS 150B-22. This request must be submitted in writing to the Director and must identify the specific provisions or issues for which the modification is sought. Please note that this Air Quality Permit will become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

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

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 December 9, 2019 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 919-707-8731 or [russell.braswell@ncdenr.gov](mailto:russell.braswell@ncdenr.gov).

Sincerely yours,

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

Enclosure

cc: Connie Horne (cover letter only)  
Kelly Fortin, EPA Region 4 (with review)  
Wilmington Regional Office  
Central Files

**ATTACHMENT to Cover Letter to Air Quality Permit No. 06591T41  
MCIEAST-Marine Corps Base Camp Lejeune**

**Summary of Changes to Permit**

The following changes were made to Air Quality Permit No. 06591T40:

Page No.*	Section*	Description of Changes
Throughout	Throughout	<ul style="list-style-type: none"> <li>• Updated dates and permit numbers;</li> <li>• Fixed formatting;</li> <li>• In general, replaced references to JP-8 with F-24</li> </ul>
n/a	Insignificant Activities List	<ul style="list-style-type: none"> <li>• Moved qualifying boilers, water heaters, and emergency generators from the Permitted Emission Source List to the Insignificant Activities List.</li> <li>• Consolidated boilers, water heaters, and emergency generators into zone-specific groups, e.g.: I-A-WH-NG: 890 small natural gas-fired water heaters located in Zone A (each less than 10 million Btu per hour heat input and meeting the definition of "hot water heater" in 40 CFR 63.7575)</li> <li>• Updated sources and source descriptions at applicant's request.</li> </ul>
3-10	Permitted Emission Source List	<ul style="list-style-type: none"> <li>• Moved qualifying boilers, water heaters, and emergency generators from the Permitted Emission Source List to the Insignificant Activities List.</li> <li>• Updated sources and source descriptions at applicant's request.</li> <li>• Removed oxidizer CD-14 because it will no longer be operated at the facility.</li> <li>• Formatted list for better clarity.</li> </ul>
n/a	n/a	<ul style="list-style-type: none"> <li>• Removed the following sections: <ul style="list-style-type: none"> <li>○ 2.1 A through E,</li> <li>○ 2.1 H through J,</li> <li>○ 2.1 T, and</li> <li>○ 2.1 W.</li> </ul> </li> <li>• Renumbered remaining sections.</li> </ul>
10-21	2.1 A	<ul style="list-style-type: none"> <li>• Grouped all remaining boilers into this section (previously Sections 2.1 F, G, and K, and 2.2 C and D).</li> <li>• Removed references to the Case-by-Case MACT for boilers because it has expired.</li> <li>• Added requirements for MACT Subpart 5D.</li> </ul>
22-27	2.1 B	<ul style="list-style-type: none"> <li>• Grouped remaining emergency reciprocating internal combustion engines (previously Section 2.1 M)</li> <li>• Combined references to MACT Subpart 4Z.</li> </ul>

Page No.*	Section*	Description of Changes
28-30	2.1 C	<ul style="list-style-type: none"> <li>• Previously Section 2.1 N</li> <li>• Added section for MACT Subpart 4Z. This is only for clarity, and does not reflect a change in requirements.</li> </ul>
31	2.1 D	<ul style="list-style-type: none"> <li>• Previously Section 2.1 V</li> </ul>
34	2.1 E	<ul style="list-style-type: none"> <li>• Previously Section 2.1 O</li> </ul>
36-38	2.1 F	<ul style="list-style-type: none"> <li>• Previously Section 2.1 L</li> <li>• Rewrote permit condition for 02D .0926 in order to more closely follow the language of the rule.</li> </ul>
39-49	2.1 G	<ul style="list-style-type: none"> <li>• Previously Section 2.1 P.</li> <li>• Added condition for 02D .0541 for abrasive blasting source. Overall, there is no change in requirements.</li> <li>• Updated format of MACT Subpart GG for clarity.</li> </ul>
50	2.1 H	<ul style="list-style-type: none"> <li>• Previously Section 2.1 Q</li> </ul>
53-55	2.1 I	<ul style="list-style-type: none"> <li>• Previously Section 2.1 R.</li> <li>• Added condition for 02D .0541 for abrasive blasting source. Overall, there is no change in requirements.</li> </ul>
56	2.1 J	<ul style="list-style-type: none"> <li>• Previously Section 2.1 S</li> </ul>
57-59	2.1 K	<ul style="list-style-type: none"> <li>• Previously Section 2.1 U</li> <li>• Removed references to the oxidizer.</li> <li>• Removed references to 02D .0503 and 02D .0516 because they only applied to the oxidizer.</li> <li>• Noted that the Permittee has performed testing to show compliance with the emission limit.</li> </ul>
63	2.2 C	<ul style="list-style-type: none"> <li>• Previously Section 2.2 E</li> </ul>
64	2.2 D	<ul style="list-style-type: none"> <li>• Previously Section 2.2 F</li> </ul>

\* This refers to the current permit unless otherwise stated.

## Insignificant Activities per 15A NCAC 02Q .0503(8)

Table I-1: Storage Tanks

SOURCE ID	DESCRIPTION
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-1700-01A	Storage tank (diesel fuel, 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)

SOURCE ID	DESCRIPTION
<b>Storage Tanks</b>	
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)
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)

SOURCE ID	DESCRIPTION
<b>Storage Tanks</b>	
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)
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)

Table I-2: Welding

SOURCE ID	DESCRIPTION
<b>Welding</b>	
I-A-FC-100-07	Welding
I-A-FC-143-02	Welding
I-A-FC-200-05	Welding

SOURCE ID	DESCRIPTION
<b>Welding</b>	
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-1410-03	Welding
I-A-HP-1502-10	Welding
I-A-HP-1765-02	Welding
I-A-HP-1829-01	Welding
I-A-HP-1854-10	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-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-44-01	Welding
I-C-RR-455-01	Welding
I-D-SR-54-01	Welding

*Table I-3: Parts Cleaners*

SOURCE ID	DESCRIPTION
<b>Parts Cleaners</b>	
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



SOURCE ID	DESCRIPTION
<b>Parts Cleaners</b>	
I-C-PNTGNCLNR-ZONE-C	Parts cleaners, enclosed paint gun cleaner

Table I-4: Paint Booths

SOURCE ID	DESCRIPTION
<b>Paint Booths</b>	
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-D-SR-46-01	Paint booth

Table I-5: Fuel Dispensing

SOURCE ID	DESCRIPTION
<b>Fuel Dispensing</b>	
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

Table I-6: Small Boilers and Water Heaters

SOURCE ID	DESCRIPTION
<b>Small Boilers and Water Heaters</b>	
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)

SOURCE ID	DESCRIPTION
<b>Small Boilers and Water Heaters</b>	
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)

Table I-7: Emergency-use Engines

SOURCE ID	DESCRIPTION
<b>Emergency-use Engines</b>	
I-A-EGEN-NEW [MACT, ZZZZ; NSPS, IIII]	99 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-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-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]

SOURCE ID	DESCRIPTION
<b>Emergency-use Engines</b>	
I-D-EGEN-NEW [MACT, ZZZZ; NSPS, IIII]	3 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]

*Table I-8: Miscellaneous Insignificant Activities*

SOURCE ID	DESCRIPTION
<b>Miscellaneous</b>	
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
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-C-AS-124-01	Woodworking 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-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-AS-SAS4596-01	Ex-situ pump-and-treat system
I-C-RR-13-01	Woodworking operation
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 or that the owner or operator of the source is exempted from demonstrating compliance

with any applicable requirement.

2. When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 02D .1100 "Control of Toxic Air Pollutants" or 02Q .0711 "Emission Rates Requiring a Permit".
3. For additional information regarding the applicability of GACT see the DAQ page titled "The Regulatory Guide for Insignificant Activities/Permits Exempt Activities". The link to this site is as follows:

<http://deq.nc.gov/about/divisions/air-quality/air-quality-permits/specific-permit-conditions-regulatory-guide>



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
06591T41	06591T40	December 9, 2019	November 30, 2024

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

**Facility Site Location:** 12 Post Lane  
**City, County, State, Zip:** Camp Lejeune, Onslow County, NC 28547

**Mailing Address:** 12 Post Lane, COMMANDING GENERAL ATTN: EMD  
**City, State, Zip:** Camp Lejeune, NC 28547

**Application Number:** 6700011.18C & .19A  
**Complete Application Date:** August 27, 2018 (.18C)  
September 25, 2019 (.19A)

**Primary SIC Code:** 9711

**Division of Air Quality,** Wilmington Regional Office  
**Regional Office Address:** 127 Cardinal Drive Extension  
Wilmington, North Carolina 28405

Permit issued this the 9<sup>th</sup> day of December, 2019.

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

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### ATTACHMENTS:

1. List of Acronyms

## SECTION 1- PERMITTED EMISSION SOURCES AND ASSOCIATED AIR POLLUTION CONTROL DEVICE AND APPURTENANCES

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

*Table 1-1: Boilers*

<b>Emission Source ID No.</b>	<b>Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
A-NH-100-01, and A-NH-100-02 <b>(MACT, DDDDD)</b>	Two No. 2 fuel oil/natural gas-fired boilers (14.645 million Btu heat input capacity each)	None	None
C-RR-15-46B, and C-RR-15-47B <b>(MACT, DDDDD; NSPS, Dc)</b>	Two No. 2 fuel oil-fired replacement boilers (10.5 million Btu per hour heat input capacity each)	None	None
A-NH-100-05A <b>(MACT, DDDDD)</b>	No. 2 fuel oil/natural gas-fired boiler (9.9 million Btu per hour heat input capacity)	None	None

*Table 1-2: Emergency-Use Reciprocating Internal Combustion Engines*

<b>Emission Source ID No.</b>	<b>Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
A-FC-442-03 <b>(MACT, ZZZZ)</b>	Diesel-fired emergency generator (1,000 kW)	None	None
A-FC-445-01 <b>(MACT, ZZZZ)</b>	Diesel-fired emergency generator (900 kW)	None	None
A-FC-443-02 <b>(MACT, ZZZZ)</b>	Diesel-fired emergency generator (900 kW)	None	None
A-FC-540-01 <b>(MACT, ZZZZ)</b>	Diesel-fired emergency generator (1,500 kW)	None	None
A-HP-128-01 <b>(MACT, ZZZZ; NSPS, III)</b>	Diesel-fired emergency generator (600 kW)	None	None
A-HP-227-01 <b>(MACT, ZZZZ; NSPS, III)</b>	Diesel-fired emergency generator (810 kW)	None	None
A-HP-24-03 <b>(MACT, ZZZZ; NSPS, III)</b>	Diesel-fired emergency generator (750 kW)	None	None
A-HP-24-04 <b>(MACT, ZZZZ; NSPS, III)</b>	Diesel-fired emergency generator (750 kW)	None	None

<b>Emission Source ID No.</b>	<b>Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
A-HP-590-01 (MACT, ZZZZ)	Diesel-fired emergency generator (750 kW)	None	None
A-MP-455-01B (MACT, ZZZZ; NSPS, III)	Diesel-fired emergency generator (1,250 kW) (1,848 bhp)	None	None
A-NH-100-10B (MACT, ZZZZ)	diesel-fired emergency generator (1,495 bhp)	None	None
A-NH-100-11B (MACT, ZZZZ)	diesel-fired emergency generator (1,495 bhp)	None	None
A-NH-100-12B (MACT, ZZZZ)	diesel-fired emergency generator (1,495 bhp)	None	None
A-NH-100-14 (MACT, ZZZZ; NSPS, III)	Diesel-fired emergency generator (910 kW)	None	None
A-WC-PT3C-01 (MACT, ZZZZ; NSPS, III)	Diesel-fired emergency generator (1,000 kW) (1,500 bhp)	None	None
C-AS-4013-01 (MACT, ZZZZ; NSPS, III)	Diesel-fired emergency generator (1,000 kW)	None	None
C-RR-134-01 (MACT, ZZZZ; NSPS, III)	Diesel-fired Emergency Generator (400 kW) (591 hp)	None	None
C-RR-400-05 (MACT, ZZZZ; NSPS, III)	Diesel-fired emergency generator (1,250 kW) (1848 hp)	None	None
C-RR-405-01 (MACT, ZZZZ; NSPS, III)	Diesel-fired emergency generator (1,250 kW)	None	None
C-RR-425-01 (MACT, ZZZZ; NSPS, III)	Diesel-fired Emergency Generator (400 kW)	None	None
C-RR-430-05 (MACT, ZZZZ; NSPS, III)	Diesel-fired emergency generator (800 kW)	None	None
C-RR-440-01 (MACT, ZZZZ; NSPS, III)	Diesel-fired emergency generator (200 kW) (311 hp)	None	None
C-SRR-470-01 (MACT, ZZZZ; NSPS, III)	Diesel-fired Emergency Generator (150 kW)	None	None



<b>Emission Source ID No.</b>	<b>Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
A-HP-1230-3 (MACT, ZZZZ; NSPS, IIII)	Diesel-fired emergency generator (1,000 kW) (1,474 hp)	None	None

*Table 1-3: Non-emergency Reciprocating Internal Combustion Engines*

<b>Emission Source ID No.</b>	<b>Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
A-HP-S185-01 (MACT, ZZZZ; NSPS, IIII)	Limited-use, diesel-fired peak shaving generator (1,600 kW)	None	None
A-FC-280-24 (MACT, ZZZZ; NSPS, IIII)	Diesel-fired generator (60 kW)	None	None
A-FC-280-26 (MACT, ZZZZ; NSPS, IIII)	Diesel-fired generator (40 kW)	None	None

*Table 1-4: Engine Test Stations and Test Stands*

<b>Emission Source ID No.</b>	<b>Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
A-FC-143-01	Diesel, gasoline, JP-5, or F-24-fired IC engine test stand (55 hp)	None	None
A-FC-241-06	Diesel or F-24-fired IC engine test stand (300 hp)	None	None
A-FC-280-07	Diesel, JP-5 or F-24-fired turbine engine test stand (1,500 hp)	None	None
A-FC-280-11	Diesel or F-24-fired IC engine test stand (525 hp)	None	None
A-FC-280-12	Diesel or F-24-fired IC engine test stand (525 hp)	None	None
A-FC-280-13	Diesel or F-24-fired IC engine test stand (525 hp)	None	None
A-FC-280-14	Diesel or F-24-fired IC engine test stand (525 hp)	None	None
A-FC-280-23	Diesel or F-24-fired IC engine test stand (525 hp)	None	None
A-FC-280-25	Diesel or F-24-fired IC engine test stand (525 hp)	None	None
A-FC-285-01	Diesel, gasoline, JP-5, or F-24-fired IC engine test stand (55 hp)	None	None
A-HP-1854-11	Diesel, JP-5, or F-24-fired turbine engine test stand (1,500 hp)	None	None
A-HP-1880-06	Diesel or F-24-fired IC engine test stand (750 hp)	None	None

<b>Emission Source ID No.</b>	<b>Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
A-HP-575-10	Diesel or F-24-fired IC engine test stand (537 hp)	None	None
A-MP-107-20	62 diesel or F-24-fired IC engine test stands (between 190 and 625 hp)	None	None
A-MP-150-01	11 diesel or F-24-fired IC engine test stands (between 190 and 625 hp)	None	None
A-MP-151-01	11 diesel or F-24-fired IC engine test stands (between 190 and 625 hp)	None	None
B-A-A47-05	Diesel or F-24-fired IC engine test stand (525 hp)	None	None
B-A-A69-01	Diesel, gasoline, JP-5, or F-24-fired IC engine test stand (55 hp)	None	None
B-BA-134-02	Diesel, gasoline, JP-5, or F-24-fired IC engine test stand (55 hp)	None	None
B-BA-72-03	Diesel, gasoline, JP-5, or F-24-fired IC engine test stand (55 hp)	None	None
B-BB-329-01	Diesel, gasoline, JP-5, or F-24-fired IC engine test stand (55 hp)	None	None
C-AS-2820-01	Gasoline-fired IC engine test stand (100 hp)	None	None
C-AS-531-01	Jet engine test stand	None	None
C-RR-430-01	Diesel, gasoline, JP-5, or F-24-fired IC engine test stand (55 hp)	None	None
C-RR-430-02	Diesel, gasoline, JP-5, or F-24-fired IC engine test stand (55 hp)	None	None

*Table 1-5: Paint Spray Booths*

<b>Emission Source ID No.</b>	<b>Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
A-FC-280-10	Dry filter paint spray booth	None	None
A-FC-286-12	Dry filter type paint spray booth	None	None
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
A-HP-1202-78	Water wash paint spray booth	None	None
A-HP-1249-03	Paint spray booth	None	None
C-AS-3900-01 (MACT, GG)	Paint hangar	None	None
C-AS-3900-02 (MACT, GG)	Paint spray booth	None	None

<b>Emission Source ID No.</b>	<b>Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
C-AS-3900-03	Grinding booth	CD-13	One cartridge-type filter (7,080 square feet of filter surface area)
C-AS-4106-01 (MACT, GG)	Paint spray booth	None	None
C-AS-4135-01	Water wash paint spray booth	None	None
C-AS-4146-05	Paint spray booth	None	None
C-AS-518-12 (MACT, GG)	Dry filter paint spray booth	None	None
C-AS-518-13 (MACT, GG)	Dry filter paint spray booth	None	None

*Table 1-6: Fugitive Emissions Operations*

<b>Emission Source ID No.</b>	<b>Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
C-AS-FUGITIVE-DEPAINTING (MACT, GG)	All fugitive chemical depainting operations subject to MACT, Subpart GG	None	None
C-AS-FUGITIVE-PAINTING (MACT, GG)	All fugitive painting operations subject to MACT, Subpart GG	None	None
C-AS-HAND WIPE (MACT, GG)	All hand wipe solvent cleaning activities subject to MACT, Subpart GG	None	None
C-AS-FLUSH (MACT, GG)	All flush cleaning activities subject to MACT, Subpart GG	None	None

*Table 1-7: Corrosion Control Hangar*

<b>Emission Source ID No.</b>	<b>Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
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
C-AS-514-02 (MACT, GG)	Chemical depainting operation	None	None

*Table 1-8: Extraction Systems*

<b>Emission Source ID No.</b>	<b>Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
A-HP-1068-01 (MACT, GGGGG)	Bio sparge soil vapor extraction system	None	None
A-HP-645-03 (MACT, GGGGG)	Bio sparge soil vapor extraction system	None	None
A-LCH-4015-04 (MACT, GGGGG)	Bio sparge soil vapor extraction system	None	None
C-AS-4141-01 (MACT, GGGGG)	Ex-situ pump-and-treat system	None	None
C-AS-497-01 (MACT, GGGGG)	Aggressive fluid vapor recovery	None	None
A-HP-1111-01 (MACT, GGGGG)	Air sparge vapor extraction system	None	None
A-HP-31-1 (MACT, GGGGG)	Air sparge soil vapor extraction system	None	None
C-TC-341-1 (MACT, GGGGG)	Ex-situ pump-and-treat system	None	None

*Table 1-9: Landfill*

<b>Emission Source ID No.</b>	<b>Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
A-HP-982-01 (NSPS, WWW)	Municipal solid waste landfill, active (668,525 megagram capacity)	None	None
A-FC-FC18-01	Municipal solid waste landfill, closed (884,982 ton capacity)	None	None

*Table 1-10: Miscellaneous Sources*

<b>Emission Source ID No.</b>	<b>Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
A-FC-286-11	Abrasive blasting operation	CD-08	One cartridge-type filter (28,800 square feet of surface area)
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

<b>Emission Source ID No.</b>	<b>Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
A-HP-915-06	Woodworking operation	CD-15A	One cartridge-type filter system (2.03:1 air to cloth ratio)
A-HP-1202-02, and A-HP-1202-04	Woodworking operations	CD-03, CD-04	Two simple cyclones (36 inches in diameter each)
A-HP-1249-04	Woodworking operation	CD-16	One cartridge-type filter system (2,880 square feet of surface area)

## 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. Five No. 2 fuel oil/natural gas-fired boilers:

- A-NH-100-01;
- A-NH-100-02;
- A-NH-100-05A;
- C-RR-15-46B; and
- C-RR-15-47B

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
particulate matter	0.60 pounds per million Btu heat input	15A NCAC 02D .0503
sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
	(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
n/a	(ID Nos. C-RR-15-46B and C-RR-15-47B) Keep records of fuel use and sulfur content	15A NCAC 02D .0524 (40 CFR Part 60, Subpart Dc)
hazardous air pollutants	ID Nos. A-NH-100-01, A-NH-100-02, and A-NH-100-05A: Work practices and scheduled tune-ups.  ID Nos. C-RR-15-46B, and C-RR-15-47B: Work practices, scheduled tune-ups, and emission limits	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, A-NH-100-05A, C-RR-15-46B, and C-RR-15-47B) 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, A-NH-100-05A, C-RR-15-46B, and C-RR-15-47B**).

**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, A-NH-100-05A, C-RR-15-46B, and C-RR-15-47B**) 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, A-NH-100-05A, C-RR-15-46B, and C-RR-15-47B**).

**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, A-NH-100-05A, C-RR-15-46B, and C-RR-15-47B**) 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.

**4. 15A NCAC 02D .0524: NEW SOURCE PERFORMANCE STANDARDS  
(40 CFR Part 60, Subpart Dc)**

- a. For these boilers (**ID Nos. C-RR-15-46B and C-RR-15-47B**), the Permittee shall comply with all applicable provisions, including the notification, testing, reporting, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 02D .0524 "New Source Performance Standards (NSPS) as promulgated in 40 CFR Part 60 Subpart Dc, including Subpart A "General Provisions."

**Emission Limitations** [15A NCAC 02Q .0508(f), 02D .0524]

- b. Pursuant to 40 CFR 60.42c(d), the Permittee shall not combust oil in these sources that contains greater than 0.5 weight percent sulfur.

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

- c. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.4.b above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524.

**Monitoring/Recordkeeping** [15A NCAC 02Q .0508(f), 40 CFR 60.48c(e)]

- d. Pursuant to 40 CFR 60.42c(h)(1), compliance with the fuel oil sulfur limits in Section 2.1 A.4.b above may be determined based on a certification from the fuel supplier, as described under 40 CFR 60.48c(f).
- e. Pursuant to 40 CFR 60.48c(e), the Permittee shall keep records, including the following information:
  - i. Calendar dates covered in the reporting period.
  - ii. Fuel supplier certifications.
- f. Pursuant to 40 CFR 60.48c(f), the fuel supplier certifications for distillate oil shall include the following information:
  - i. The name of the oil supplier;
  - ii. A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c; and
  - iii. The sulfur content or maximum sulfur content of the oil.
- g. Pursuant to 40 CFR 60.48c(g), the Permittee shall maintain records of the amount of each fuel combusted during each calendar month.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if the recordkeeping requirements in Section 2.1.G.3.d. through g are not met.

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

- h. Pursuant to 40 CFR 60.48c, 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 must be clearly identified. The summary report shall contain the following information:
  - i. Calendar dates covered in the reporting period.
  - ii. Fuel supplier certifications including the following information.
    - (A) The name of the oil supplier;
    - (B) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c; and
    - (C) The sulfur content or maximum sulfur content of the oil.
  - iii. A certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted (distillate fuel) during the reporting period.



**5. 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.5.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.5.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 NO<sub>x</sub> 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.5.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.5.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.5.j through k.**

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

1. 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.5.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]

**6. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY  
(40 CFR Part 63, Subpart DDDDD)**

**Applicability** [40 CFR 63.7485, §63.7490(d), §63.7499(q, u)]

- a. For these boilers (**ID Nos. C-RR-15-46B and C-RR-15-47B**; existing units designed to burn light liquid fuel with a heat input capacity 10 million Btu per hour or greater), 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" (Subpart 5D) and Subpart A "General Provisions."

**Definitions and Nomenclature** [§63.7575]

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

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

- c. The Permittee shall comply with the requirements of 40 CFR 63 Subpart A General Provisions according to the applicability of Subpart A to such sources as identified in Table 10 to Subpart 5D.

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

- d. The Permittee shall:
- Complete the initial tune up and the one-time energy assessment (i.e., **Section 2.1 A.6.p through s**) no later than May 20, 2019.
  - Complete the initial compliance requirements in **Section 2.1 A.6.j** no later than November 16, 2019 and according to the applicable provisions in §63.7(a)(2).

**General Compliance Requirements** [§63.7505(a), §63.7500]

- e. At all times the affected unit(s) is operating, the Permittee shall be in compliance with the emission standards in section 2.1 A.6.g, except during periods of startup and shutdown. During startup and shutdown, the Permittee shall comply only with items 5 and 6 of Table 3 of Subpart 5D.
- f. At all times, then Permittee shall operate and maintain any affected source (as defined in §63.7490), 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.

**Emission Limits** [15A NCAC 02Q .0508(f), §63.7500(a)(1), Table 2]

- g. The affected units shall meet the following emission limits:

Pollutant	Emission Limit
Hydrochloric Acid (HCl)	1.1E-03 lb per MMBtu of heat input
Mercury (Hg)	2.0E-06 lb per MMBtu of heat input
Carbon monoxide (CO)	130 ppm by volume on a dry basis corrected to 3 percent oxygen
Filterable Particulate Matter(PM) or Total Suspended Metals (TSM)	7.9E-03 lb per MMBtu of heat input or 6.2E-05 lb per MMBtu of heat input

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

- h. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test(s) are above the limit given in **Section 2.1 A.6.g** above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111.

**Notifications** [15A NCAC 02Q .0508(f), §§63.7545, 63.7530]

- i. The Permittee shall submit the following notifications:
- The Permittee shall submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin.
  - For the initial compliance demonstration for each affected source, the Permittee shall submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of all performance test and/or other initial compliance demonstrations for all affected sources at the facility The Notification of Compliance

Status report must contain all the information specified in paragraphs (e)(1) through (8) of §63.7545 as applicable.

[§§63.9(h)(2)(ii), 63.10(d)(2), 63.7545(e)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these notification requirements are not met.

**Initial compliance requirements** [15A NCAC 02Q .0508(f), §63.7510]

- j. The Permittee shall demonstrate compliance with the limits in **Section 2.1 A.6.g** by conducting initial performance test(s) and fuel analyses, establishing operating limits and conducting continuous monitoring system (CMS) evaluation(s) as necessary according to §§63.7510, 63.7525 and 63.7530. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these requirements are not met.

**Subsequent compliance requirements** [15A NCAC 02Q .0508(f), §63.7515]

- k. The Permittee shall conduct subsequent performance tests and fuel analyses as necessary according to §63.7515.
- i. If the affected boiler or process heater combusts ultra-low sulfur liquid fuel, the Permittee does not need to conduct further performance tests (stack tests or fuel analyses) if the pollutants measured during the initial compliance performance tests meet the emission limits in **Section 2.1 A.6.g**, providing the Permittee demonstrates ongoing compliance with the emissions limits by monitoring and recording the type of fuel combusted on a monthly basis.
- ii. If the Permittee intends to use a fuel other than ultra-low sulfur liquid fuel, natural gas, refinery gas, or other gas 1 fuel, the Permittee shall conduct new performance tests within 60 days of burning the new fuel type.
- l. The Permittee shall demonstrate continuous compliance with each emission limit and operating limit that applies according to §63.7540.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in **Section 2.1 A.6.k through l** are not met.

**Monitoring requirements** [15A NCAC 2Q .0508(f), §63.7525]

- m. The Permittee shall install, operate, and maintain:
- i. oxygen analyzer system(s), as defined in §63.7575, or install, certify, operate and maintain continuous emission monitoring systems for CO and oxygen (or carbon dioxide) according to the procedures §63.7525(a); and
- ii. operating load monitors.
- n. The Permittee shall meet the requirements for all monitoring systems (CMS) as applicable according to §63.7525.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in **Section 2.1 A.6.m and n** are not met.

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

- o. The Permittee shall maintain:
- i. the 30-day rolling average operating load of each unit such that it does not exceed 110 percent of the

highest hourly average operating load recorded during most recent performance test;

- ii. the 30-day rolling average oxygen content at or above the lowest hourly average oxygen concentration measured during the most recent CO performance test. If multiple performance tests are conducted, set the minimum oxygen level at the lower of the minimum values established during the performance tests;

[§§63.7500(a)(2), 63.7540, Table 4 and 8 to Subpart 5D]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in **Section 2.1 A.6.o** are not met.

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

- p. The Permittee shall conduct a tune-up of each boiler (**ID Nos. C-RR-15-46B and C-RR-15-47B**) every year as specified below. The Permittee shall conduct the tune-up while burning the type of fuel (or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up.
  - i. 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);
  - ii. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
  - iii. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown);
  - iv. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO<sub>x</sub> requirement to which the unit is subject; and
  - v. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.

[§§63.7500(a), §63.7540(a)(10)]

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

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in **Section 2.1 A.6.p through r** are not met.

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

- s. The Permittee shall have a one-time energy assessment performed by a qualified energy assessor. The energy assessment must address the requirements in Subpart 5D, 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: An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment

requirements in this table, satisfies the energy assessment requirement. [§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]

- t. The Permittee shall:
- i. Keep a copy of each notification and report submitted to comply with Subpart 5D, including all documentation supporting any Initial Notification or Notification of Compliance Status, or semiannual compliance report that has been submitted. [§§63.7555(a)(1), 63.10(b)(2)(xiv)]
  - ii. Keep records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations. [§63.10(b)(2)(viii)]
  - iii. 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 boiler or process heater;
    - (B) A description of any corrective actions taken as a part of the tune-up; and
    - (C) the type and amount of fuel used over the 12 months prior to the annual adjustment, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.
- [§63.7540(a)(10)(vi)]
- iv. For each CMS, keep records according to paragraphs (b)(1) through (5) of §63.7555.
  - v. Keep records required in Table 8 of Subpart 5D including records of all monitoring data and calculated averages for applicable operating limits, such as opacity, pressure drop, pH, and operating load, to show continuous compliance with each emission limit and operating limit that applies.
  - vi. Keep the applicable records in paragraphs (d)(1) through (13) of §63.7555.
  - vii. Maintain records in a form suitable and readily available for expeditious review;
  - viii. Keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record; and
  - ix. 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 the requirements in **Section 2.1 A.6.t** are not met.



**Reporting Requirements** [15A NCAC 02Q .0508(f), §63.7550]

- u. The Permittee shall submit a compliance report to the DAQ on a semi-annual basis, 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.
  - i. The first compliance report shall be postmarked on or before July 30, 2019 and cover the period from May 20, 2019 through June 30, 2019.
  - ii. The compliance reports shall also be submitted electronically to the EPA via the procedures in §63.7550(h).
- v. The compliance report shall contain:
  - i. The information in §63.7550(c) as applicable.
  - ii. For each deviation from an emission limit or operating limit, the report shall contain the information in §63.7550(d) and (e) as applicable.
  - w. Within 60 days after the date of completing each performance test (defined in §63.2) including any associated fuel analyses and/or CEMS performance evaluation (defined in §63.2) as required by Subpart 5D, the Permittee shall submit the results to the DAQ pursuant to 63.10(d)(2) and to the EPA via the procedures in §63.7550(h).

**7. 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.7.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:**

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

<b>Table 2.1 B-2:</b> <i>Engines constructed before December 19, 2002, site rating greater than 500 horsepower:</i>
A-FC-442-03
A-FC-443-02
A-FC-445-01
A-FC-540-01
A-HP-590-01
A-NH-100-14

<b>Table 2.1 B-3:</b> <i>Engines manufactured after April 1, 2006, site rating greater than 500 horsepower:</i>
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
C-AS-4013-01
C-RR-134-01
C-RR-400-05
C-RR-405-01
C-RR-425-01
C-RR-430-05

<b>Table 2.1 B-4:</b> <i>Engines constructed on or after June 12, 2006, site rating less than 500 horsepower:</i>
C-RR-440-01
C-SRR-470-01

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

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
sulfur dioxide	<b>(Sources in Tables 2.1 B-1 and 2)</b> 2.3 pounds per million Btu heat input	15A NCAC 02D .0516
visible emissions	20 percent opacity	15A NCAC 02D .0521
varies	<b>(Sources in Tables 2.1 B-3 and 4)</b> 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	<b>(ID Nos. A-FC-442-03, A-FC-443-02, A-FC-445-01)</b> 40 tons per year, combined.	15A NCAC 02Q .0317 (PSD Avoidance)
	<b>(ID Nos. C-RR-134-01, C-RR-400-05, C-RR-405-01, C-RR-425-01, C-RR-430-05, C-RR-440-01, and C-SRR-470-01)</b> 40 tons per year, combined See Section 2.2 B.1	

Regulated Pollutant	Limits/Standards	Applicable Regulation
toxic air pollutants	<u>State-enforceable Only</u> 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  
(40 CFR Part 60, Subpart IIII)**

- 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, 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. 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(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 B.3.c or d above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524.

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

- f. 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)]

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

- g. 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)]

- h. The Permittee shall comply with the emission standards in Section 2.1. B.3.c by purchasing an engine certified to the emission standards in Section 2.1 B.3.c. The engine shall be installed and configured according to the manufacturer's emission-related specifications. [40 CFR 60.4211(c)]
- i. In order for the engine to be considered an emergency stationary ICE under 40 CFR Part 60 Subpart IIII, any operation other than emergency operation, maintenance and testing, emergency demand response, 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.i.ii(A) through (C), below, for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by Section 2.1 B.3.i.iii counts as part of the 100 hours per calendar year allowed by Section 2.1 B.3.i.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.
  - (B) Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR 60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.
  - (C) Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
- iii. Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in Section 2.1 B.3.i.ii above. Except as provided in Section 2.1 B.3.i.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)]

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

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

- j. 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;
  - iv. any variance from manufacturer's recommendations, if any, and corrections made;
  - v. the hours of operation during maintenance and readiness testing, emergency service and non-emergency service [40 CFR 60.4214(b)];
  - vi. 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)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if the records required by Section 2.1 B.3.j are not maintained.

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

- k. The Permittee shall submit a summary report of monitoring and recordkeeping activities required by Sections 2.1 B.3.f through j 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.
- l. If the Permittee owns or operates an emergency stationary CI ICE with a maximum engine power more than 100 HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in Sections 2.1 B.3.i(ii)(B) and (C) or that operates for the purposes specified in Section 2.1 B.3.i(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 the EPA. [40 CFR 60.4214(d)]

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

**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. 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.
- c. 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.
- d. In order to meet the definition of "Stationary RICE subject to limited requirements" under §63.6590(b)(1), the Permittee shall ensure that the sources listed in Tables 2.1 B-1, 2, and 3 do not operate for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii).
- 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.

**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 major modifications, emergency generators (**ID Nos. A-FC-445-01, A-FC-443-02, and A-FC-442-03**) 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 B.5.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 of emergency generators (**ID Nos. A-FC-445-01, A-FC-443-02, and A-FC-442-03**) shall not exceed 1,160 hours per year total. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the monthly hours of operation are not kept or if the Permittee operates these sources greater than 1,160 hours per year.

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

- d. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities required by Section 2.1 B.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. 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 total monthly hours of operation for all three generators for the previous 17 months;

### 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.

Regulated 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	<u>State Enforceable Only</u> 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 ACHIEVABLE 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.

Regulated 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	<u>State Enforceable Only</u> 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-143-01 Diesel, gasoline, JP-5, or F-24-fired IC engine test stand;
- 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-1854-11 Diesel, JP-5, or F-24-fired turbine engine test stand;
- A-HP-1880-06 Diesel 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-2820-01 Gasoline-fired IC engine test stand;
- C-AS-531-01 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

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
HAPs	No applicable requirements	15A NCAC 02D .1111 <b>40 CFR Part 63, Subpart P</b>
Toxic Air Pollutants	<b><u>State Enforceable Only</u></b> See Section 2.2 A.1	15A NCAC 02D .1100
Nitrogen dioxide	Less than 40 tons per year <b><u>(ID Nos. C-RR-430-01 and C-RR-430-02 only)</u></b> See Section 2.2 B.1	15A NCAC 02Q .0317 <b>(PSD Avoidance)</b>
	Less than 40 tons per year <b><u>(ID Nos. A-FC-280-23 only)</u></b> See Section 2.2 C.1	
	Less than 40 tons per year <b><u>(ID Nos. A-FC-280-07 and 25 only)</u></b> 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 P P P P P)**

- 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 P P P P P, "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. above is considered to be an "existing affected source."
- c. Pursuant to 40 CFR 63.9290(b), existing affected sources do not have to meet the requirements of 40 CFR 63 Subpart P P P P P 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.

Regulated 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:
- 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;
  - All openings, except stub drains are equipped with covers, lids, or seals such that:
    - The cover, lid, or seal is in the closed position at all times except when in actual use;
    - Automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports;
    - 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
    - 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:
- Routine visual inspections shall be conducted through roof hatches once per month; and
  - 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. Paint Spray Booths, Depainting Operations, and Fugitive Emissions Operations:

ID No.	Source Description
Paint Spray Booths	
A-FC-280-10	Dry filter paint spray booth
A-FC-286-12	Dry filter paint spray booth
A-FC-286-13	Dry filter paint spray booth with steam heated dryer
A-FC-286-24	
A-HP-1202-78	Water wash paint spray booth
A-HP-1249-03	Paint spray booth
C-AS-3900-01	Paint hangar and paint spray booth
C-AS-3900-02	
MACT, Subpart GG	
C-AS-4106-01	Paint spray booth
MACT, Subpart GG	
C-AS-4135-01	Water wash paint spray booth
C-AS-4146-05	Paint spray booth
C-AS-518-12	Dry filter paint spray booth
MACT, Subpart GG	
C-AS-518-13	Dry filter paint spray booth
MACT, Subpart GG	
Depainting Operations	
C-AS-3900-03	Grinding booth with a cartridge-type filter (ID No. CD-13)
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)
MACT, Subpart GG	
C-AS-514-02	Chemical depainting operation
MACT, Subpart GG	
Fugitive Emissions Operations	
C-AS-FUGITIVE-DEPAINTING	All fugitive chemical depainting operations subject to MACT Subpart GG
MACT, Subpart GG	
C-AS-FUGITIVE-PAINTING	All fugitive painting operations subject to MACT Subpart GG
MACT, Subpart GG	
C-AS-HAND WIPE	All hand wipe solvent cleaning activities subject to MACT, Subpart GG
MACT, Subpart GG	
C-AS-FLUSH	All flush cleaning activities subject to MACT, Subpart GG
MACT, Subpart GG	

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate emissions	<b>For paint spray booths only</b> $E = 4.10 \times P^{0.67}$ Where: E = allowable particulate emission rate in pounds per hour P = process rate in tons per hour	15A NCAC 02D .0515

Regulated Pollutant	Limits/Standards	Applicable Regulation
Visible emissions	<b>For paint spray booths and plastic media blasting system only</b>  20 percent opacity each	15A NCAC 02D .0521
Particulate emissions	<b>Abrasive blasting only</b> Comply with VE limits	15A NCAC 02D .0541
Toxic Air Pollutants	<b><u>State Enforceable Only</u></b> See Section 2.2 A.1	15A NCAC 02D .1100
HAPs	<b>See Tables 2.1 G-2 through 4</b>	15A NCAC 02D .1111 <b>40 CFR Part 63, Subpart GG</b>

## 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-HP-1202-78, C-AS-4146-05, C-AS-4135-01, A-HP-1249-03, 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, 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**, the Permittee shall comply with all applicable provisions, including the notification, testing, 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 GG, "National Emission Standards for Hazardous Air Pollutants for Aerospace Manufacturing and Rework Facilities, including Subpart A "General Provisions," when using *nonspecialty coatings* .

*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-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 <b>MACT, Subpart GG</b>
C-AS-HAND WIPE	All hand wipe solvent cleaning activities subject to <b>MACT, Subpart GG</b>
C-AS-FUGITIVE-DEPAINTING	All fugitive chemical depainting operations subject to <b>MACT, Subpart GG</b>
C-AS-FUGITIVE-PAINTING	All fugitive painting operations subject to <b>MACT, Subpart GG</b>

- 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:

<i>Table 2.1 G-2: Cleaning Operations:</i>	
Standards	<p>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)]</p> <p><u>Table 1 [40 CFR §63.744]</u></p> <p>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.</p>

<i>Table 2.1 G-2: Cleaning Operations:</i>			
	<p>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<sub>2</sub>O at 68 °F). These cleaners also contain no HAP.</p> <p>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)]</p> <p>3. Store cleaning solvents except semi-aqueous in closed containers. [63.744(a)(2)]</p>		
	<p><u>Handwipe</u></p> <p>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)]</p> <p>2. Note the list of 13 cleaning operations exempt from composition, vapor pressure, and volume reduction requirements. [63.744(e)]</p>		
	<p><u>Spray Gun Cleaning</u></p> <p>1. Use one of the four specified techniques or their equivalent. [63.744(c)]</p> <p>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)]</p> <p>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)]</p>		
	<p><u>Flush Cleaning</u></p> <p>Operating procedures specify emptying used cleaning solvent into enclosed container, collection system, or system with equivalent emission control. [63.744(d)]</p>		
Test Methods and Procedures	<p><u>Handwipe</u></p> <p>1. Composition determination using manufacture's data. [63.750(a)]</p> <p>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)]</p>		
	<p><u>Spray Gun Cleaning</u></p> <p>None</p>	<p><u>Flush Cleaning</u></p> <p>None</p>	
Monitoring	<p><u>Handwipe</u></p> <p>None</p> <p>[63.751(a)]</p>	<p><u>Spray Gun Cleaning</u></p> <p>Monthly visual leak inspection</p>	<p><u>Flush Cleaning</u></p> <p>None</p>
Recordkeeping	<p><u>Handwipe</u></p> <p>1. If complying with composition requirements, the name, data/calculations, and annual volumes. [63.752 (b)(2)]</p> <p>2. If complying with vapor pressure limit, the name, vapor pressure, data/calculations/tests results, and monthly volumes. [63.752 (b)(4)]</p> <p>3. For noncompliant cleaning solvents used in exempt operations, the name, monthly volumes by operation, and master list of processes. [63.752(b)(4)]</p>		
Reporting	<p><u>Handwipe</u></p> <p>1. Semi-annual report: Statement certifying compliance by responsible official. [63.753(b)(1)(v)]</p> <p>2. Statement that noncompliant cleaning solvents used. [63.753(b)(1)(i)]</p> <p>3. New cleaning solvents and their composite vapor pressure or notification of compliance with composition requirements. [63.753(b)(1)(ii)]</p>		
	<p><u>Spray Gun Cleaning</u></p> <p>1. Semi-annual report: Statement certifying compliance by responsible official.[63.753(b)(1)(v)]</p> <p>2. Statement that noncompliant spray gun cleaning method used. [63.753(b)(1)(iii)]</p> <p>3. Leaks from enclosed spray gun cleaners not repaired within 15 days. [63.753(b)(1)(iv)]</p>		



<i>Table 2.1 G-3: Primer and Topcoat Application Operations:</i>	
Standards	<p><u>Uncontrolled Primers</u></p> <ol style="list-style-type: none"> <li>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)]</li> <li>2. Achieve compliance through: (1) using coatings below content limits, or (2) using monthly volume-weighted averaging to meet content limits. [63.745(e)]</li> </ol> <p><u>Uncontrolled Topcoats (including self-priming tools)</u></p> <ol style="list-style-type: none"> <li>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)]</li> <li>4. Achieve compliance through: (1) using coatings below content limits, or (2) using monthly volume-weighted averaging to meet content limits. [63.745(e)]</li> </ol> <p><u>Controlled Primers and Topcoats (including self-priming tools)</u></p> <ol style="list-style-type: none"> <li>5. Control system must reduce organic HAP and VOC emissions to the atmosphere 81 percent, using capture and destruction/removal efficiencies. [63.745(d)]</li> </ol> <p><u>All Primers and Topcoats</u></p> <ol style="list-style-type: none"> <li>6. Minimize spills during handling and transfer. [63.745 (b)]</li> <li>7. Specific application techniques must be used. [63.745(f)(1)]</li> <li>8. Exemptions from specific application techniques must be used for certain situations. [63.745(f)(3)]</li> <li>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)]</li> <li>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)]</li> <li>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)]</li> </ol>
Performance Test Periods and Tests	<p><u>Uncontrolled</u></p> <ol style="list-style-type: none"> <li>1. Performance test period for coatings not averaged: each 24 hour period; for "averaged" coatings each 30-day period. [63.749(d)(1)]</li> </ol> <p><u>Controlled</u></p> <ol style="list-style-type: none"> <li>2. Performance test period for noncarbon adsorber: three 1-hour runs; for carbon adsorber each rolling material balance period. [63.749(d)(1)]</li> <li>3. Initial performance test required for all control devices to demonstrate compliance with overall control efficiency requirement. [63.749(d)(2)]</li> </ol>

*Table 2.1 G-3: Primer and Topcoat Application Operations:*

Tests Methods and Procedures	<p><u>Organic HAP</u></p> <ol style="list-style-type: none"> <li>1. Organic HAP level determination procedures. [63.750(c) and (d)]</li> <li>2. VOC level determination procedures. [63.750(e) and (f)]</li> <li>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)]</li> <li>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 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)]</li> </ol> <p><u>Inorganic HAP</u></p> <ol style="list-style-type: none"> <li>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)]</li> </ol>
Monitoring	<ol style="list-style-type: none"> <li>1. Carbon adsorbers. [63.751(b)(1) through (7)]</li> <li>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)]</li> <li>3. Incinerators. [63.751(b)(9) through (12)]</li> <li>4. Dry particulate filters and waterwash systems. [63.751(c)]</li> <li>5. Alternate monitoring method. [63.751(c)]</li> </ol>
Recordkeeping	<ol style="list-style-type: none"> <li>1. Name and VOC content as received and as applied for all primers and topcoats. [63.752(c)(1)]</li> </ol> <p><u>Uncontrolled</u></p> <ol style="list-style-type: none"> <li>2. For "compliant" coatings, organic HAP and VOC contents as applied, data/calculations and test results used to determine HAP/VOC contents (<math>H_i</math> and <math>G_i</math>), and monthly usage. [63.752(c)(2)]</li> <li>3. For "low-HAP content" primers, annual purchase records, and data/calculations and test results used to determine <math>H_i</math> or HAP/VOC content as applied. [63.752(c)(3)]</li> <li>4. For "averaged" coatings, monthly volume-weighted average values of HAP/VOC content (<math>H_a</math> and <math>G_a</math>), and data/calculations and test results used to calculate <math>H_a</math> and <math>G_a</math> [63.752(c)(4)]</li> </ol> <p><u>Controlled</u></p> <ol style="list-style-type: none"> <li>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)]</li> <li>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)]</li> </ol> <p><u>Inorganic HAP Particulate</u></p> <ol style="list-style-type: none"> <li>7. Pressure drop across filter or water flow rate through waterwash system once per shift, and acceptable limits. [63.752(d)(1) through (3)]</li> </ol>

*Table 2.1 G-3: Primer and Topcoat Application Operations:*

Reporting	<p><u>Semiannual</u> (six months from the date of notification of compliance status)</p> <ol style="list-style-type: none"> <li>1. All instances where organic HAP/VOC limits were exceeded. [63.753(c)(1)(i) and (ii)]</li> <li>2. Control device exceedances (out-of-compliance). [63.753(c)(1)(iii), (iv), and (v)]</li> <li>3. Periods when operation not immediately shut down when the pressure drop or water flow rate was outside limits. [63.753(c)(1)(vi)]</li> <li>4. Statement certifying compliance. [63.753(c)(1)(vii)]</li> </ol> <p><u>Annual</u> (twelve months from the date of notification of compliance status)</p> <ol style="list-style-type: none"> <li>5. Number of times the pressure drop or water flow rate limits were exceeded. [63.753(c)(2)]</li> </ol>
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*Table 2.1 G-4: Depainting Operations*

Exemptions	<ol style="list-style-type: none"> <li>1. Facilities depainting six or less completed aerospace vehicles per calendar year. [63.746(a)]</li> <li>2. Depainting of parts or units normally removed from the plane for depainting (except wings and stabilizers). [63.746(a)(1)]</li> <li>3. Aerospace vehicles or components intended for public display, no longer operational, and not easily capable of being moved. [63.746(a)(2)]</li> <li>4. Depainting of radomes and parts, subassemblies, and assemblies normally removed from the primary aircraft before depainting. [63.746(a)(3)]</li> </ol>
Standards	<ol style="list-style-type: none"> <li>1. Zero organic HAP emissions from chemical strippers or softeners. [63.746(b)(1)]</li> <li>2. Minimize inorganic HAP emissions when equipment malfunctions. [63.746(b)(2)]</li> <li>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)]</li> <li>4. Follow operating requirements for depainting operations generating airborne inorganic HAP. [63.746(b)(4)]</li> <li>5. Mechanical and hand sanding are exempt from requirements of §63.746(b)(4). [63.746(b)(5)]</li> <li>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)]</li> </ol>
Performance Test Periods and Tests	<p><u>Organic HAP</u></p> <ol style="list-style-type: none"> <li>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)]</li> <li>2. Performance Test Period for noncarbon adsorber, three 1-hour test runs; for carbon adsorber each rolling material balance period. [63.749(f)(1)]</li> <li>3. Test period for spot stripping and decal removal usage limits: each calendar year. [63.749(f)(1)]</li> </ol> <p><u>Inorganic HAP</u></p> <ol style="list-style-type: none"> <li>4. Operating requirements specified in § [63.746(b)(4)] [63.749(g)]</li> </ol>
Test Methods and Procedures	<p><u>Organic HAP</u></p> <ol style="list-style-type: none"> <li>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)]</li> <li>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)]</li> </ol> <p><u>Inorganic HAP</u></p> <ol style="list-style-type: none"> <li>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.</li> </ol>

<i>Table 2.1 G-4: Depainting Operations</i>	
	[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	<ol style="list-style-type: none"> <li>1. Name and monthly volumes of each chemical stripper used or monthly weight of organic HAP used in chemical strippers. [63.752(e)(1)]</li> <li>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)]</li> <li>3. For controlled chemical strippers (other control devices), overall control efficiency and supporting test results/data/calculations. [63.752(e)(3)]</li> <li>4. List of parts/assemblies normally removed. [63.752(e)(4)]</li> <li>5. For nonchemical based equipment, name and type, and malfunction information including dates, description, and alternative methods used. [63.752(e)(5)]</li> <li>6. For spot stripping and decal removal, volume of stripper or weight of 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)]</li> <li>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)]</li> </ol>
Reporting	<p><u>Semiannual</u> (6 months from the date of notification of compliance status)</p> <ol style="list-style-type: none"> <li>1. 24-hour periods where organic HAP were emitted from depainting operations. [63.753(d)(1)(i)]</li> <li>2. New/reformulated chemical strippers and HAP contents. [63.753(d)(1)(ii),(iii), and (iv)]</li> <li>3. New nonchemical depainting techniques. [63.753(d)(1)(v)]</li> <li>4. Malfunction information or nonchemical depainting techniques including dates, description, and alternative methods used. [63.753(d)(1)(vi)]</li> <li>5. Periods when operation not immediately shut down when the pressure drop or water flow rate was outside limits. [63.753(d)(1)(vii)]</li> <li>6. List of new/discontinued aircraft models and, for new models, list of parts normally removed for depainting. [63.753(d)(1)(viii)]</li> <li>7. Organic HAP control device exceedances. [63.753(d)(3)]</li> <li>8. Statement certifying compliance. [63.753(d)(1)(ix)]</li> </ol> <p><u>Annual</u> (12 months from the date of notification of compliance status)</p> <ol style="list-style-type: none"> <li>9. Exceedances of average annual volume or weight allowance for spot stripping and decal removal. [63.753(d)(2)(i)]</li> <li>10. Number of times the pressure drop or water flow rate limits were exceeded. [63.753(d)(2)(ii)]</li> </ol>

<i>Table 2.1 G-5: Maskant Operations</i>	
Standards	<p>Minimize spills during handling and transfer [63.747(b)]</p> <p><u>Uncontrolled Maskants</u></p> <ol style="list-style-type: none"> <li>1. Organic HAP emissions: <math>\leq 622</math> g/l (5.2 lb/gal) (less water) as applied for Type I; <math>\leq 160</math> g/L (1.3 lb/gal) (less water) as applied for Type II. [63.747(c)(1)]</li> <li>2. VOC emissions: <math>\leq 622</math> g/l (5.2 lb/gal) (less water and exempt solvents) as applied for Type I, <math>\leq 160</math> g/L (1.3 lb/gal) (less water and exempt solvents) as applied for Type II. [63.747(c)(2)]</li> <li>3. Exemption for touch-up of scratched surfaces, damaged maskant, and trimmed edges. [63.747(c)(3)]</li> <li>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)]</li> </ol>

<i>Table 2.1 G-5: Maskant Operations</i>	
	<p><u>Controlled Maskants</u></p> <p>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)]</p>
Performance Test Periods and Tests	<p><u>Uncontrolled</u></p> <p>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)]</p> <p><u>Controlled</u></p> <p>2. Performance Test Period for noncarbon adsorber, three 1-hour test runs; for carbon adsorber, each rolling material balance period. [63.749(h)(1)]</p> <p>3. Initial performance test required for all control devices to demonstrate compliance with overall control efficiency requirement. [63.749(h)(2)]</p>
Test Methods and Procedures	<p>1. Organic HAP level determination procedures. [63.750(k) and (l)]</p> <p>2. VOC level determination procedures. [63.750(m) and (n)]</p> <p>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)]</p>
Monitoring	<p>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)]</p>
Recordkeeping	<p><u>Uncontrolled Maskants</u></p> <p>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) (<math>H_i</math> and <math>G_i</math>); all data, calculations, and test results; monthly volumes of each maskant. [63.752(f)(1)]</p> <p>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) (<math>H_a</math> and <math>G_a</math>); all data, calculations, and test results. [63.752(f)(2)]</p> <p><u>Controlled Maskants</u></p> <p>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)]</p> <p>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)]</p>
Reporting	<p><u>Semiannual</u> (6 months from the date of notification of compliance status)</p> <p>1. Exceedances or organic HAP/VOC limits. [63.753(e)(1) and (2)]</p> <p>2. Control device exceedances (out of compliance). [63.753(e)(3)]</p> <p>3. New maskants. [63.753(e)(4)]</p> <p>4. New control devices. [63.753(e)(5)]</p> <p>5. Statement certifying compliance. [63.753(e)(6)]</p>

## H. Woodworking Operations:

- 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);
- Woodworking operation (ID No. A-HP-1202-04) with simple cyclone (ID No. CD-04); and
- Woodworking operation (ID No. A-HP-1249-04) with cartridge filter (ID No. CD-16)

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

Regulated 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 systems (ID No. CD-15A and CD-16), 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 cartridge filter (ID No. CD-08)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Visible emissions	20 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:
- 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
  - 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:
- the date and time of each action;
  - 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 cartridge 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:**

- A-HP-982-01 (active);
- A-FC-18-01 (closed)

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

Regulated 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	<u>State Enforceable Only</u> 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. Remediation Systems:

Emission Source ID No.	Source Description
A-HP-1068-01	Bio sparge soil vapor extraction system
A-HP-1111-01	Air sparge vapor extraction system
A-HP-645-03	Bio sparge soil vapor extraction system
A-LCH-4015-04	Bio sparge soil vapor extraction system
C-AS-4141-01	Ex-situ pump-and-treat system
C-AS-497-01	Aggressive fluid vapor recovery
A-HP-31-01	Air sparge soil vapor extraction system
C-TC-341-01	Ex-situ pump-and-treat system

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Hazardous Air Pollutants	Less than 3.0 pounds per hour and 3.1 tons per year from process vents	15A NCAC 02D .1111 (40 CFR Part 63, Subpart GGGGG)
Toxic Air Pollutants	<b><u>State Enforceable Only</u></b> See Section 2.2 A.1	15A NCAC 02D .1100

### 1. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY (40 CFR Part 63, Subpart GGGGG)

#### **Applicability**

- 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 §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** [§63.7885; §63.7890]

- d. For the process vents that comprise the affected source designated under §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 K.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 K.1.d above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111.

**Monitoring/Recordkeeping Requirements** [§63.7935; §63.7946]

- f. The Permittee shall monitor and collect data according the facility's site-specific monitoring plan required in §63.7935.
  - (A) 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.
  - (B) The Permittee shall always operate and maintain the affected source, including air pollution control and monitoring equipment, according to the provisions in §63.6(e)(1)(i).
  - (C) The Permittee must develop a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in §63.6(e)(3).
  - (D) 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.
  - (E) Consistent with §§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 §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 §63.6(e).
  - (F) 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:
    - (1) 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).
    - (2) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system.
    - (3) Performance evaluation procedures and acceptance criteria (*e.g.*, calibrations).
  - (G) The site-specific monitoring plan shall address the following:
    - (1) Ongoing operation and maintenance procedures according to the general requirements of §63.8(c)(1), (3), (4)(ii), (7), and (8).

- (2) Ongoing data quality assurance procedures according to the general requirements of §63.8(d).
- (3) Ongoing recordkeeping and reporting procedures according to the general requirements of §63.10(c), (e)(1), and (e)(2)(i).
- (H) The Permittee shall operate and maintain the continuous monitoring system according to the site-specific monitoring plan.
- (I) 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 K.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 K.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:*

<b>Emission Source</b>	<b>Source Description</b>
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-405-01	Diesel-fired Emergency Generator (1250 kW) (1600 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)
C-SRR-470-01	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.

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

- c. In order to ensure compliance with the above avoidance limit, the following operational limits shall apply:
- 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
  - 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:
- 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 Requirements** [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 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- GENERAL CONDITIONS (version 5.3, 08/21/2018)\*

\*The general conditions have some specific conditions that apply only to this facility.

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

A. **General Provisions** [NCGS 143-215 and 15A NCAC 02Q .0508(i)(16)]

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

B. **Permit Availability** [15A NCAC 02Q .0507(k) and .0508(i)(9)(B)]

The Permittee shall have available at the facility a copy of this permit and shall retain for the duration of the permit term one complete copy of the application and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of Department of Environmental Quality upon request.

C. **Severability Clause** [15A NCAC 02Q .0508(i)(2)]

In the event of an administrative challenge to a final and binding permit in which a condition is held to be invalid, the provisions in this permit are severable so that all requirements contained in the permit, except those held to be invalid, shall remain valid and must be complied with.

D. **Submissions** [15A NCAC 02Q .0507(e) and 02Q .0508(i)(16)]

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

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

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

E. **Duty to Comply** [15A NCAC 02Q .0508(i)(3)]

The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit.

Noncompliance with any permit condition except conditions identified as state-only requirements constitutes a violation of the Federal Clean Air Act. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

F. **Circumvention** - STATE ENFORCEABLE ONLY

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

G. **Permit Modifications**

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

H. **Changes Not Requiring Permit Modifications**

1. Reporting Requirements  
Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:
  - a. changes in the information submitted in the application;
  - b. changes that modify equipment or processes; or
  - c. changes in the quantity or quality of materials processed.

If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.

2. Section 502(b)(10) Changes [15A NCAC 02Q .0523(a)]
  - a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
  - b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
    - i. the changes are not a modification under Title I of the Federal Clean Air Act;
    - ii. the changes do not cause the allowable emissions under the permit to be exceeded;
    - iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
    - iv. the Permittee shall attach the notice to the relevant permit.
  - c. The written notification shall include:
    - i. a description of the change;
    - ii. the date on which the change will occur;
    - iii. any change in emissions; and
    - iv. any permit term or condition that is no longer applicable as a result of the change.
  - d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
3. Off Permit Changes [15A NCAC 02Q .0523(b)]

The Permittee may make changes in the operation or emissions without revising the permit if:

- a. the change affects only insignificant activities and the activities remain insignificant after the change; or
  - b. the change is not covered under any applicable requirement.
4. Emissions Trading [15A NCAC 02Q .0523(c)]

To the extent that emissions trading is allowed under 15A NCAC 02D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 02Q .0523(c).

**I.A. Reporting Requirements for Excess Emissions and Permit Deviations**

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

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

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

**Excess Emissions**

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

**Permit Deviations**

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

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

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

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

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

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

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

1. An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.
3. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that include information as follows:
  - a. an emergency occurred and the Permittee can identify the cause(s) of the emergency;
  - b. the permitted facility was at the time being properly operated;
  - c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
  - d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

**Security Emergency Provisions For Air Toxics -(State Enforceable Only)-**

6. A "security emergency" means a situation where extremely quick action on the part of a Military Department or a Department of Defense component is needed, and when timing of such action may make it impracticable to meet one or more requirements of an applicable permit. *A security emergency applies only to State Air Toxics as listed in 15A NCAC 02D .1100 and does not apply to any Federally Enforceable provisions of this Title V Permit.* Security emergencies are actions necessary to support operation of the United States forces introduced into hostilities or introduced into situations where involvement in hostilities is indicated or a possibility, peacekeeping operations, rendering emergency humanitarian relief, actions to extinguish wildfires, immediate responses to the release or discharge of oil or hazardous material in accordance with approved Spill Prevention and Response Plans and Spill Contingency Plans, and responses to natural disasters such as hurricanes, earth quakes, or civil disturbances.
7. A "surge condition" occurs when the temporary response to the security emergency requires an increase above and beyond the normal operating levels of the installation or activity and such increase cannot be accommodated within the terms of the applicable permit limitations.
8. The responsible official of the military installation or activity responding to a security emergency shall determine when a security emergency surge condition exists and shall provide notice of the surge condition to the appropriate state or local regulating authority, and shall report such determination to the responsible Secretary of the Military Department or Head of the Department of Defense Component, in writing, within, ten working days after the start of the surge condition.
9. The responsible official of the military installation or activity shall make a determination that a security emergency surge condition exists only after making reasonable efforts to accommodate the increase with allowable requirements and permit limits.
10. If the security emergency surge condition extends beyond 30 calendar days from the date of the notice, the continued use of this security emergency provision must be approved by the Department of Defense Component.
11. Within 45 working days after the emergency surge condition has ended, the responsible official of the military installation or activity shall provide a written report to appropriate permitting authority, and to the responsible secretary of the Military Department or the Head of the Department of Defense Component, describing the amount of increased pollutants caused by the surge condition.



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

1. the identification of each term or condition of the permit that is the basis of the certification;
2. the compliance status (with the terms and conditions of the permit for the period covered by the certification);
3. whether compliance was continuous or intermittent; and
4. the method(s) used for determining the compliance status of the source during the certification period.

Q. **Certification by Responsible Official** [15A NCAC 02Q .0520]

A responsible official shall certify the truth, accuracy, and completeness of any application form, report, or compliance certification required by this permit. All certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

R. **Permit Shield for Applicable Requirements** [15A NCAC 02Q .0512]

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

S. **Termination, Modification, and Revocation of the Permit** [15A NCAC 02Q .0519]

The Director may terminate, modify, or revoke and reissue this permit if:

1. the information contained in the application or presented in support thereof is determined to be incorrect;
2. the conditions under which the permit or permit renewal was granted have changed;
3. violations of conditions contained in the permit have occurred;
4. the EPA requests that the permit be revoked under 40 CFR 70.7(g) or 70.8(d); or
5. the Director finds that termination, modification, or revocation and reissuance of the permit is necessary to carry out the purpose of NCGS Chapter 143, Article 21B.

T. **Insignificant Activities** [15A NCAC 02Q .0503]

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

U. **Property Rights** [15A NCAC 02Q .0508(i)(8)]

This permit does not convey any property rights in either real or personal property or any exclusive privileges.

V. **Inspection and Entry** [15A NCAC 02Q .0508(l) and NCGS 143-215.3(a)(2)]

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

Nothing in this condition shall limit the ability of the EPA to inspect or enter the premises of the Permittee under Section 114 or other provisions of the Federal Clean Air Act.

2. No person shall refuse entry or access to any authorized representative of the DAQ who requests entry for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

W. **Annual Fee Payment** [15A NCAC 02Q .0508(i)(10)]

1. The Permittee shall pay all fees in accordance with 15A NCAC 02Q .0200.
2. Payment of fees may be by check or money order made payable to the N.C. Department of Environmental Quality.

Annual permit fee payments shall refer to the permit number.

3. If, within 30 days after being billed, the Permittee fails to pay an annual fee, the Director may initiate action to terminate the permit under 15A NCAC 02Q .0519.

X. **Annual Emission Inventory Requirements** [15A NCAC 02Q .0207]

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

Y. **Confidential Information** [15A NCAC 02Q .0107 and 02Q .0508(i)(9)]

Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 02Q .0107, the Permittee may also submit a copy of all such information and claim directly to the EPA upon request. All requests for confidentiality must be in accordance with 15A NCAC 02Q .0107.

Z. **Construction and Operation Permits** [15A NCAC 02Q .0100 and .0300]

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

AA. **Standard Application Form and Required Information** [15A NCAC 02Q .0505 and .0507]

The Permittee shall submit applications and required information in accordance with the provisions of 15A NCAC 02Q .0505 and .0507.

BB. **Financial Responsibility and Compliance History** [15A NCAC 02Q .0507(d)(3)(A)]

The DAQ may require an applicant to submit a statement of financial qualifications and/or a statement of substantial compliance history.

CC. **Refrigerant Requirements (Stratospheric Ozone and Climate Protection)** [15A NCAC 02Q .0501(e)]

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

DD. **Prevention of Accidental Releases - Section 112(r)** [15A NCAC 02Q .0508(h)]

If the Permittee is required to develop and register a Risk Management Plan with EPA pursuant to Section 112(r) of the Clean Air Act, then the Permittee is required to register this plan in accordance with 40 CFR Part 68.

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

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

FF. **Title IV Allowances** [15A NCAC 02Q .0508(i)(1)]

This permit does not limit the number of Title IV allowances held by the Permittee, but the Permittee may not use allowances as a defense to noncompliance with any other applicable requirement. The Permittee's emissions may not exceed any allowances that the facility lawfully holds under Title IV of the Federal Clean Air Act.

GG. **Air Pollution Emergency Episode** [15A NCAC 02D .0300]

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

**HH. Registration of Air Pollution Sources** [15A NCAC 02D .0202]

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

**II. Ambient Air Quality Standards** [15A NCAC 02D .0501(c)]

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

**JJ. General Emissions Testing and Reporting Requirements** [15A NCAC 02Q .0508(i)(16)]

Emission compliance testing shall be by the procedures of Section .2600, except as may be otherwise required in Rules .0524, .0912, .1110, .1111, or .1415 of Subchapter 02D.

If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 02D .2600 and follow the procedures outlined below:

1. The owner or operator of the source shall arrange for air emission testing protocols to be provided to the Director prior to air pollution testing. Testing protocols are not required to be pre-approved by the Director prior to air pollution testing. The Director shall review air emission testing protocols for pre-approval prior to testing if requested by the owner or operator at least **45 days** before conducting the test.
2. Any person proposing to conduct an emissions test to demonstrate compliance with an applicable standard shall notify the Director at least **15 days** before beginning the test so that the Director may at his option observe the test.
3. The owner or operator of the source shall arrange for controlling and measuring the production rates during the period of air testing. The owner or operator of the source shall ensure that the equipment or process being tested is operated at the production rate that best fulfills the purpose of the test. The individual conducting the emission test shall describe the procedures used to obtain accurate process data and include in the test report the average production rates determined during each testing period.
4. Two copies of the final air emission test report shall be submitted to the Director not later than **30 days** after sample collection unless otherwise specified in the specific conditions. The owner or operator may request an extension to submit the final test report. The Director shall approve an extension request if he finds that the extension request is a result of actions beyond the control of the owner or operator.
  - a. The Director shall make the final determination regarding any testing procedure deviation and the validity of the compliance test. The Director may:
    - 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 this Section if the methods can be demonstrated to determine compliance of permitted emission sources or pollutants.
  - b. The Director may authorize the Division of Air Quality to conduct independent tests of any source subject to a rule in this Subchapter to determine the compliance status of that source or to verify any test data submitted relating to that source. Any test conducted by the Division of Air Quality using the appropriate testing procedures described in Section 02D .2600 has precedence over all other tests.

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

1. A permit shall be reopened and revised under the following circumstances:
  - a. additional applicable requirements become applicable to a facility with remaining permit term of three or more

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

**LL. Reporting Requirements for Non-Operating Equipment** [15A NCAC 02Q .0508(i)(16)]

The Permittee shall maintain a record of operation for permitted equipment noting whenever the equipment is taken from and placed into operation. 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(c)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.
2. For modifications made pursuant to 15A NCAC 02Q .0501(d)(2), the Permittee shall not begin operation of the air emission source(s) and associated air pollution control device(s) until a Title V Air Quality Permit Application is filed and a construction and operation permit following the procedures of Section .0500 (except for Rule .0504 of this Section) is obtained.
3. For modifications made pursuant to 502(b)(10), in accordance with 15A NCAC 02Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (EPA - Air Planning Branch, 61 Forsyth Street SW, Atlanta, GA 30303) in writing at least seven days before the change is made. The written notification shall include:
  - a. a description of the change at the facility;
  - b. the date on which the change will occur;
  - c. any change in emissions; and
  - d. any permit term or condition that is no longer applicable as a result of the change.

In addition to this notification requirement, with the next significant modification or Air Quality Permit renewal, the Permittee shall submit a page "E5" of the application forms signed by the responsible official verifying that the application for the 502(b)(10) change/modification, is true, accurate, and complete. Further note that modifications made pursuant to 502(b)(10) do not relieve the Permittee from satisfying preconstruction

requirements.

OO. **Third Party Participation and EPA Review** [15A NCAC 02Q .0521, .0522 and .0525(7)]

For permits modifications subject to 45-day review by the federal Environmental Protection Agency (EPA), EPA's decision to not object to the proposed permit is considered final and binding on the EPA and absent a third party petition, the failure to object is the end of EPA's decision-making process with respect to the revisions to the permit. The time period available to submit a public petition pursuant to 15A NCAC 02Q .0518 begins at the end of the 45-day EPA review period.

## ATTACHMENT

### List of Acronyms

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