

ROY COOPER  
Governor

ELIZABETH S. BISER  
Secretary

MICHAEL ABRACZINSKAS  
Director



TBD, 2022

Captain James M. Belmont  
Commanding Officer  
Fleet Readiness Center East  
PSC Box 8021, Building 137  
Cherry Point, N.C. 28533

SUBJECT: Air Quality Permit No. 05506T46  
Facility ID: 2500159  
Fleet Readiness Center East  
Cherry Point, North Carolina  
Craven County  
Fee Class: Title V  
PSD Class: Major

Dear Captain Belmont:

In accordance with your Air Permit Application for a renewal of your Title V permit, we are forwarding herewith Air Quality Permit No. 05506T46 authorizing the construction and operation, of the emission sources and associated air pollution control devices specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 02Q .0503(8) have been identified as such in the permit. Please note the requirements for the annual compliance certification are contained in General Condition P in Section 4. The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.

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

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

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



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

Captain Belmont

TBD, 2022

Page 2

143-215.108A and may subject the Permittee to civil or criminal penalties as described in NCGS 143-215.114A and 143-215.114B.

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

This Air Quality Permit shall be effective from TBD, 2022 until TBD, 2027, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

Should you have any questions concerning this matter, please contact Richard Simpson at (919) 707-8476 or richard.simpson@ncdenr.gov.

Sincerely yours,

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

Enclosure

c: Brad Akers, EPA Region 4  
Washington Regional Office  
Laserfiche  
Connie Horne (Cover letter only)

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

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

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

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

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

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

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

\* \* \*

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

## Summary of Changes to Permit

The following changes were made to Air Permit No. 05506T45.\*

<b>Page No.</b>	<b>Section</b>	<b>Description of Changes</b>
Cover and throughout	Throughout	Updated all tables, dates, and permit revision numbers. Permit was updated with the latest Permit Shell 7.0.
-----	Permit	Changed: Permit number, replaces permit number, effective date, application number, effective date of permit.
48-56	Section 4	The General Conditions in Section 4 of the permit were updated to the latest version.

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



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

## AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
05506T46	05506T45	December TBD, 2022	November 30, 2027

NOTE: Per General Condition K, a permit application for the renewal of this Title V permit shall be submitted no later than **TBD**, 2027.

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:** Fleet Readiness Center East  
**Facility ID:** 2500159  
**SIC Code:** 9711  
**NAICS Code:** 92811

**Facility Site Location:** A Street – Marine Corps Air Station  
**City, County, State, Zip:** Cherry Point, Craven County, North Carolina 28533-0021  
**Mailing Address:** PSC Box 8021  
**City, State, Zip:** Cherry Point, North Carolina 28533-0021

**Application Number(s):** 2500159.22B  
**Complete Application Date(s):** January 25, 2022

**Division of Air Quality,  
Regional Office Address:** Washington Regional Office  
943 Washington Square Mall  
Washington, NC 27889

Permit issued this the **TBD** day of December, 2022.

---

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

## Table of Contents

### List of Acronyms

- SECTION 1: PERMITTED EMISSION SOURCE(S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE(S) AND APPURTENANCES
- SECTION 2: SPECIFIC LIMITATIONS AND CONDITIONS
- 2.1 Emission Source(s) Specific Limitations and Conditions (Including specific requirements, testing, monitoring, recordkeeping, and reporting requirements)
  - 2.2 Multiple Emission Source(s) Specific Limitations and Conditions (Including specific requirements, testing, monitoring, recordkeeping, and reporting requirements)
- SECTION 3: INSIGNIFICANT ACTIVITIES PER 15A NCAC 02Q .0503(8)
- SECTION 4: GENERAL PERMIT CONDITIONS

List of Acronyms

<b>AOS</b>	Alternative Operating Scenario
<b>BACT</b>	Best Available Control Technology
<b>BAE</b>	Baseline Actual Emissions
<b>Btu</b>	British thermal unit
<b>CAA</b>	Clean Air Act
<b>CAM</b>	Compliance Assurance Monitoring
<b>CEMS</b>	Continuous Emission Monitoring System
<b>CFR</b>	Code of Federal Regulations
<b>CO</b>	Carbon Monoxide
<b>COMS</b>	Continuous Opacity Monitoring System
<b>CSAPR</b>	Cross-State Air Pollution Rule
<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>GHGs</b>	Greenhouse Gases
<b>HAP</b>	Hazardous Air Pollutant
<b>LAER</b>	Lowest Achievable Emission Rate
<b>MACT</b>	Maximum Achievable Control Technology
<b>NAA</b>	Non-Attainment Area
<b>NAAQS</b>	National Ambient Air Quality Standards
<b>NAICS</b>	North American Industry Classification System
<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>NSR</b>	New Source Review
<b>OAH</b>	Office of Administrative Hearings
<b>PAE</b>	Projected Actual Emissions
<b>PAL</b>	Plantwide Applicability Limitation
<b>PM</b>	Particulate Matter
<b>PM<sub>2.5</sub></b>	Particulate Matter with Nominal Aerodynamic Diameter of 2.5 Micrometers or Less
<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>PTE</b>	Potential to Emit
<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>TAP</b>	Toxic Air Pollutant
<b>tpy</b>	Tons Per Year
<b>VOC</b>	Volatile Organic Compound

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

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Building No.	Control Device Description	Ref.
D0069 <b>MACT GG</b>	paint booth and associated spray gun cleaning operation	CD-D0069	84	dry particulate filter system <sup>EA</sup>	A.
D0061 <b>MACT GG</b>	paint booth and associated spray gun cleaning operation	CD-D0061	129	dry particulate filter system <sup>EA</sup>	A.
D0066 <b>MACT GG</b>	paint booth and associated spray gun cleaning operation	CD-D0066	129	dry particulate filter system <sup>EA</sup>	A.
A0019 <b>MACT GG</b>	paint booth and associated spray gun cleaning operation	CD-A0019	133	dry particulate filter system <sup>NA</sup>	A.
A0032 <b>MACT GG</b>	paint booth and associated spray gun cleaning operation	CD-A0032	133	dry particulate filter system <sup>NA</sup>	A.
A0178 <b>MACT GG</b>	Sermetal spray booth and associated spray gun cleaning operation	CD-A0178	133	dry particulate filter system venting to activated carbon filter <sup>NA</sup>	A.
C0005 <b>MACT GG</b>	paint booth and associated spray gun cleaning operation	CD-C0005	137	dry particulate filter system <sup>EA</sup>	A.
C0056 <b>MACT GG</b>	paint booth and associated spray gun cleaning operation	CD-C0056	137	dry particulate filter system <sup>EA</sup>	A.
C0062 <b>MACT GG</b>	paint booth and associated spray gun cleaning operation	CD-C0062	137	dry particulate filter system <sup>EA</sup>	A.
D0008 <b>MACT GG</b>	paint booth and associated spray gun cleaning operation	CD-D0008	137	dry particulate filter system <sup>EA</sup>	A.
D0009 <b>MACT GG</b>	paint booth and associated spray gun cleaning operation	CD-D0009	137	dry particulate filter system <sup>EA</sup>	A.
D0036 <b>MACT GG</b>	paint booth and associated spray gun cleaning operation	CD-D0036	137	dry particulate filter system <sup>EA</sup>	A.
D0131 <b>MACT GG</b>	paint booth and associated spray gun cleaning operation	CD-D0131	137	dry particulate filter system <sup>EA</sup>	A.
D0106 <b>MACT GG</b>	paint booth and associated spray gun cleaning operation	CD-D0106	245	dry particulate filter system with 16 filter banks <sup>EA</sup>	A.
D0129 <b>MACT GG</b>	paint booth and associated spray gun cleaning operation	CD-D0129	245	dry particulate filter system with three cross flow stage filter banks <sup>IA</sup>	A.
D0226* <b>MACT GG</b>	paint booth and associated spray gun cleaning operation	CD-D0226A CD-D0226B*	245	3-stage paint overspray filtration system and carbon adsorption capture system <sup>NA</sup>	A.
D0052 <b>MACT GG</b>	paint booth and associated spray gun cleaning operation	CD-D0052	1798	dry particulate filter system with six filter banks <sup>EA</sup>	A.
D0056 <b>MACT GG</b>	paint booth and associated spray gun cleaning operation	CD-D0056	3767	dry particulate filter system <sup>EA</sup>	A.
A0179 <b>MACT GG</b>	paint booth and associated spray gun cleaning operation	CD-A0179	4032	dry particulate filter system <sup>NA</sup>	A.
B0101 <b>MACT GG</b>	paint booth and associated spray gun cleaning operation	CD-B0101	4224	dry particulate filter system <sup>EA</sup>	A.
E0160 <b>MACT GG</b>	paint booth and associated spray gun cleaning operation	CD-E0160	4225	dry particulate filter system <sup>EA</sup>	A.
E0080 <b>MACT GG</b>	abrasive blasting operation	CD-E0080	133	cartridge filter venting to HEPA filter <sup>NA</sup>	B.



Emission Source ID No.	Emission Source Description	Control Device ID No.	Building No.	Control Device Description	Ref.
D0097 <b>MACT GG</b>	abrasive blasting operation	CD-D0097	137	cartridge filter <sup>EAF</sup>	B.
D0221 <b>MACT GG</b>	laser depainting system	CD-D0221	423	dry particulate cartridge filter system (80 square feet of surface area) with add-on HEPA filter system (66 square feet of surface area) <sup>NAF</sup>	B. and C.
D0053 <b>MACT GG</b>	abrasive blasting operation	CD-D0053	1798	cartridge filter (15,024 square feet of surface area and HEPA filter with 1,252 square feet of surface area) <sup>NAF</sup>	B.
D0184 <b>MACT GG</b>	abrasive blasting operation	CD-D0184	3766	filter system with three cartridge filter banks (7,500 square feet of filter surface area each) <sup>EAF</sup>	B.
D0182 <b>MACT GG</b>	abrasive blasting operation with three two-stage filter systems	CD-D0182A	4034	cartridge filter venting to HEPA filter <sup>NAF</sup>	B.
		CD-D0182B		cartridge filter venting to HEPA filter <sup>NAF</sup>	
		CD-D0182C		cartridge filter venting to HEPA filter <sup>NAF</sup>	
		CD-D0182D		cartridge filter venting to HEPA filter <sup>NAF</sup>	
[Total filter surface area of each couplet is 27,778 square feet]					
D0183 <b>MACT GG</b>	media recovery unit 1 of 2	CD-D0183A	4034	cartridge filter venting to HEPA filter <sup>NAF</sup>	B.
		CD-D0183B			
[Total filter surface area of couplet is 5,040 square feet]					
D0205 <b>MACT GG</b>	media recovery unit 2 of 2	CD-D0205A	4034	cartridge filter venting to HEPA filter <sup>NAF</sup>	B.
		CD-D0205B			
[Total filter surface area of couplet is 2,520 square feet]					
A0145 <b>MACT GG</b>	Paint stripping tank	None	137	None	C.
D0120 <b>MACT GG</b>	depainting/chemical stripping area (strip hangar)	None	137	None	C.
A0009	metal spray/high velocity oxygenated fuel thermal spray (HVOF) booth	CD-A0009 CD-A0012	133	cartridge filter venting to shared HEPA filter	D.
A0010	metal spray/high velocity oxygenated fuel (HVOF) thermal spray booth	CD-A0010 CD-A0012	133	cartridge filter venting to shared HEPA filter	D.
A0011	metal spray/high velocity oxygenated fuel (HVOF) thermal spray booth	CD-A0010 CD-A0012	133	cartridge filter venting to shared HEPA filter	D.
E0089	high velocity oxygenated fuel (HVOF) thermal spray booth	CD-E0089	4225	venturi air scrubber	D.
E0165	high velocity oxygenated fuel (HVOF) thermal spray booth	CD-E0165	4225	cartridge/HEPA filter system	D.
E0207	high velocity oxygenated fuel thermal spray booth with surface pretreatment process	CD-E0207A	4225	venturi air scrubber	D.
		CD-E0207B	4225	split stream counter cyclonic dust collector	D.
T0099 <b>MACT N</b>	hard chrome plating tank	CR2R	4035	four stage composite mesh pad scrubber	E

<b>Emission Source ID No.</b>	<b>Emission Source Description</b>	<b>Control Device ID No.</b>	<b>Building No.</b>	<b>Control Device Description</b>	<b>Ref.</b>
T0100 <b>MACT N</b>	hard chrome plating tank	CR2R	4035	four stage composite mesh pad scrubber	E
T0105 <b>MACT N</b>	hard chrome plating tank	CR2R	4035	four stage composite mesh pad scrubber	E
T0106 <b>MACT N</b>	hard chrome plating tank	CR2R	4035	four stage composite mesh pad scrubber	E
T0155 <b>MACT N</b>	hard chrome plating tank	CR2R	4035	four stage composite mesh pad scrubber	E
T0218 <b>MACT N</b>	hard chrome plating tank	CR2R	4035	four stage composite mesh pad scrubber	E
T0074	nickel strike tank	AOH2	4035	vertical packed-bed tower scrubber	F
T0127	plating tank	AOH3	4035	vertical packed-bed tower scrubber	F.
T0131	plating tank	AOH3	4035	vertical packed-bed tower scrubber	F.
T0184	Zinc nickel plating tank	AOH4	4035	vertical packed-bed tower scrubber	F.
T0188	nickel strike tank	AOH4	4035	vertical packed-bed tower scrubber	F.
A0001 <b>MACT P P P P P</b>	distillate/distillate equivalent fuel-fired turbine engine-APU test cell	None	133	None	G.
A0002 <b>MACT P P P P P</b>	distillate/distillate equivalent fuel-fired turbine engine-APU test cell	None	133	None	G.
A0003 <b>MACT P P P P P</b>	distillate/distillate equivalent fuel-fired turbine engine-APU test cell	None	133	None	G.
A0004 <b>MACT P P P P P</b>	distillate/distillate equivalent fuel-fired turbine engine-APU test cell	None	133	None	G.
D0147 <b>MACT P P P P P</b>	distillate/distillate equivalent fuel-fired turbine engine-APU test cell	None	137	None	G.
D0148 <b>MACT P P P P P</b>	distillate/distillate equivalent fuel-fired turbine engine-APU test cell	None	137	None	G.
D0149 <b>MACT P P P P P</b>	distillate/distillate equivalent fuel-fired turbine engine-APU test cell	None	137	None	G.
D0150 <b>MACT P P P P P</b>	distillate/distillate equivalent fuel-fired turbine engine-APU test cell	None	137	None	G.
D0151 <b>MACT P P P P P</b>	distillate/distillate equivalent fuel-fired turbine engine-APU test cell	None	137	None	G.
D0152 <b>MACT P P P P P</b>	distillate/distillate equivalent fuel-fired turbine engine-APU test cell	None	137	None	G.
A0077 <b>MACT P P P P P</b>	distillate/distillate equivalent fuel-fired turbine engine-APU test cell	None	3402	None	G.

<b>Emission Source ID No.</b>	<b>Emission Source Description</b>	<b>Control Device ID No.</b>	<b>Building No.</b>	<b>Control Device Description</b>	<b>Ref.</b>
A0058 <b>MACT P P P P P</b>	distillate/distillate equivalent fuel-fired turbine engine-APU test cell F402	None	4188	None	G.
D0127	wood working operation and dust collection system	CD-D0127	84	simple cyclone (104 inches in diameter)	H.
B0040 <b>MACT G G</b>	Solvent cleaning spray booth	None	133	None	I.
D0113 <b>MACT D D D D D</b>	heat exchanger rated at 9.5 million Btu per hour, JP5-fired	None	137	None	J
D0114 <b>MACT D D D D D</b>	heat exchanger rated at 9.5 million Btu per hour, JP5-fired	None	137	None	J
E0088	hydrogen fluoride cleaning electric furnace	CD-E0088A CD-E0088B CD-E0088C CD-E0088D	4225	Four venturi/packed tower scrubbers using water/sodium hydroxide scrubbing solution in parallel	**

EAF Existing affected facility for primer and topcoat application, and repainting operations applicability, standards, and control requirements.

IAF Interim affected facility for primer and topcoat application operations applicability, standards, and control requirements.

NAF New affected facility for primer and topcoat application and repainting operations applicability, standards, and control requirements.

Ref = Item location in Section 2.1 - Specific Limitations and Conditions

\*The carbon adsorption capture system (ID No. CD-D0226B) installed on paint booth (ID No. D0226) will not be utilized for 40 CFR 63 Subpart GG compliance. However, if the carbon adsorption capture system (ID No. CD-D0226B) is utilized for compliance with 40 CFR 63.745(d), then the owner or operator shall conduct an initial performance test pursuant to 40 CFR 63.749(d) to demonstrate compliance with the overall reduction efficiency according to the procedures of 40 CFR 63.750(g) unless a waiver is obtained under 40 CFR 63.7(e)(2)(iv) or 63.7(h) is obtained.

\*\*The hydrogen cleaning electric furnace (I.D. No. E0088) is listed in Section 1 of this permit as an emission source. However, there are no applicable regulations since a facility modeling demonstration approved by DAQ per memo on March 21, 2016 provided insignificant fluoride emissions.

## **SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS**

### **2.1 Emission Source(s) and Control Device(s) Specific Limitations and Conditions**

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

**A. Building 84: Paint booth (ID No. D0069) with dry particulate filter system (ID No. CD-D0069) and associated spray gun cleaning operation**

**Building 129: Paint booth (ID No. D0061) with dry particulate filter system (ID No. CD-D0061) and associated spray gun cleaning operation  
Paint booth (ID No. D0066) with dry particulate filter system (ID No. CD-D0066) and associated spray gun cleaning operation**

**Building 133: Paint booth (ID No. A0019) with dry particulate filter system (ID No. CD-A0019)  
Paint booth (ID No. A0032) with dry particulate filter system (ID No. CD-A0032) and associated spray gun cleaning operation, both with shared electric drying oven  
Sermetal spray booth (ID No. A0178) and associated spray gun cleaning operation with dry particulate filter system venting to activated carbon filter (ID No. CD-A0178)**

**Building 137: Paint booth (ID No. C0005) with dry particulate filter system (ID No. CD-C0005)  
Paint booth (ID No. C0056) with dry particulate filter system (ID No. CD-C0056)  
Paint booth (ID No. C0062) with dry particulate filter system (ID No. CD-C0062)  
Paint booth (ID No. D0008) with dry particulate filter system (ID No. CD-D0008)  
Paint booth (ID No. D0009) with dry particulate filter system (ID No. CD-D0009)  
Paint booth (ID No. D0036) with dry particulate filter system (ID No. CD-D0036)  
Paint booth (ID No. D0131) with dry particulate filter system (ID No. CD-D0131),  
and each booth having an associated spray gun cleaning operation**

**Building 245: Paint booth (ID No. D0106) with dry particulate filter system (16 filter banks; ID No. CD-D0106) and associated spray gun cleaning operation  
Paint booth (ID No. D0129) with dry particulate filter system (three stage cross flow filter banks; ID No. CD-D0129) and associated spray gun cleaning operation  
Paint booth (ID No. D0226) with 3-stage paint overspray filtration system (ID No. CD-D0226A) and carbon adsorption capture system (ID No. CD-D0226B)\***

**Building 1798: Paint booth (ID No. D0052) with dry particulate filter system (6 filter banks; ID No. CD-D0052) and associated spray gun cleaning operation**

**Building 3767: Paint booth (ID No. D0056) with dry particulate filter system (ID No. CD-D0056) and associated spray gun cleaning operation**

**Building 4032: Paint booth (ID No. A0179) with dry particulate filter system (ID No. CD-A0179) and associated spray gun cleaning operation**

**Building 4224: Paint booth (ID No. B0101) with dry particulate filter system (ID No. CD-B0101) and associated spray gun cleaning operation**

**Building 4225: Paint booth (ID No. E0160) with dry particulate filter system (ID No. CD-E0160) and associated spray gun cleaning operation**

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

Pollutant	Limits/Standards	Applicable Regulation
Visible emissions	20 percent opacity for all sources listed above except ID No. C0056 and D0106	15A NCAC 02D .0521
Visible emissions	40 percent opacity for ID No. C0056 and D0106	15A NCAC 02D .0521
Hazardous air pollutants and volatile organic compounds	<p>MACT Standards for Aerospace Manufacturing and Rework Facilities - Primer and Top Coat Application  <b>See Section 2.2 A.2.</b></p> <p><i>* The carbon adsorption capture system (ID No. CD-D0226B) installed on paint booth (ID No. D0226) will not be utilized for 40 CFR 63 Subpart GG compliance. However, if the carbon adsorption capture system (ID No. CD-D0226B) is utilized for compliance with 40 CFR 63.745(d), then the owner or operator shall conduct an initial performance test pursuant to 40 CFR 63.749(d) to demonstrate compliance with the overall reduction efficiency according to the procedures of 40 CFR 63.750(g) unless a waiver is obtained under 40 CFR 63.7(e)(2)(iv) or 63.7(h) is obtained.</i></p>	15A NCAC 02D .1111 40 CFR Part 63, Subpart GG
Toxic air pollutants	<p>Annual Emissions Rates for Toxic Air Pollutants Determined Pursuant to Acceptable Ambient Concentration Limits  <b>See Section 2.2 B.2.</b></p>	15A NCAC 02D .1100

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

- a. Visible emissions from all paint booths except for (ID No. C0056 and D0106) 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.
- b. Visible emissions from paint booth (ID No. C0056 and D0106) shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 90 percent opacity.

**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.1.a and b above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

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

- d. No monitoring, recordkeeping or reporting is required.

**B. Building 133: Abrasive blasting operation (ID No. E0080) with cartridge filter venting to HEPA filter (ID No. CD-E0080)**

**Building 137: Abrasive blasting operation (ID No. D0097) with cartridge filter (ID No. CD-D0097)**

**Building 423: Laser depainting system (ID No. D0221) with associated dry particulate cartridge filter system (CD-D0221, 80 square feet of surface area) with add-on HEPA filter system (66 square feet of surface area)**

**Building 1798: Abrasive blasting operation (ID No. D0053) with cartridge filter venting to HEPA filters (ID No. CD-D0053)**

**Building 3766: Abrasive blasting operation (ID No. D0184) venting thru multiple filter banks (ID No. CD-D0184)**

**Building 4034: Abrasive blasting operation (ID No. D0182) with three two-stage filter systems (ID Nos. CD-D0182A/B, CD-D0182C/D, and CD-D0182E/F), Media recovery unit 1 of 2 (ID No. D0183) with two-stage filter system (ID No. CD-D0183A/B), and Media recovery unit 2 of 2 (ID No. D0205) with two-stage filter system (ID No. CD-D0205A/B)**

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

Pollutant	Limits/Standards	Applicable Regulation
Hazardous air pollutants and volatile organic compounds	MACT Standards for Aerospace Manufacturing and Rework Facilities - Non-Chemical Depainting Operations <b>See Section 2.2 A.3.</b>	15A NCAC 02D .1111 40 CFR Part 63, Subpart GG
Visible emissions	20 percent opacity for all sources listed above except ID No. D0097	15A NCAC 02D .0521
Visible emissions	40 percent opacity for ID No. D0097	15A NCAC 02D .0521
Toxic air pollutants	Annual Emissions Rates for Toxic Air Pollutants Determined Pursuant to Acceptable Ambient Concentration Limits <b>See Section 2.2 B.2.</b>	15A NCAC 02D .1100

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

- a. Visible emissions from all sources described above except for (ID No. D0097) 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. [15A NCAC 02D .0521 (d)]
- b. Visible emissions from abrasive booth (ID No. D0097) shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 90 percent opacity. [15A NCAC 02D .0521 (c)]

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

- c. If emission testing is required, the testing shall be performed in accordance with General Condition JJ in Section 4 of this Permit. If the results of this test are above the limit given in Section 2.1. B.1.a above in this building section, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

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

- d. To ensure compliance, once per month, the Permittee shall observe the pressure drop readings on the control device filter system table below and make a record of the readings in a logbook (written or electronic). The pressure drop across the filter systems in inches of water ( $\Delta P$  wg) shall not be less than the minimum or greater than the maximum pressure drops tabulated below; except as stated in any ongoing administrative amendments.

Control Device I.D. No.	Control Device Component	Minimum ( $\Delta P$ wg)	Maximum ( $\Delta P$ wg)
CD-E0080	Cartridge Filter	1.0 inches	7.0 inches
CD-E0080	HEPA Filter	0.9 inches	2.25 inches
CD-D0097	Cartridge Filter	0.5 inches	4.0 inches
CD-D0221	Cartridge Filter	0.25 inches	20 inches
CD-D0221	HEPA Filter	0.25 inches	3.0 inches
CD-D0053	Cartridge Filter	1.0 inches	6.5 inches
CD-D0053	HEPA Filter	0.7 inches	2.5 inches
CD-D0184/A1	Cartridge Filter	0.5 inches	5.0 inches
CD-D0184/A2	Cartridge Filter	0.5 inches	5.0 inches
CD-D0184/A3	Cartridge Filter	0.5 inches	5.0 inches
CD-D0182A	Cartridge Filter	0.10 inches	10.0 inches
CD-D0182B	HEPA Filter	0.10 inches	5.0 inches
CD-D0182C	Cartridge Filter	0.10 inches	10.0 inches
CD-D0182D	HEPA Filter	0.10 inches	5.0 inches
CD-D0182E	Cartridge Filter	0.10 inches	10.0 inches
CD-D0182F	HEPA Filter	0.10 inches	5.0 inches
CD-D0183A	Cartridge Filter	0.25 inches	6.0 inches
CD-D0183B	HEPA Filter	0.20 inches	2.0 inches
CD-D0205A	Cartridge Filter	0.40 inches	6.0 inches
CD-D0205B	HEPA Filter	0.20 inches	2.0 inches

The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if the pressure drop across the filter system operates outside of these parameters.

**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 recorded action;
  - ii. the results of each observation and/or test noting this source's emissions 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)]

- f. The Permittee shall submit a summary report of the observations 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.

- C. Building 137: Paint stripping tank (ID No. A0145)  
Depainting/chemical stripping area (ID No. D0120)**
- Building 423: Laser depainting system (ID No. D0221) with associated dry particulate cartridge filter system  
(CD-D0221, 80 square feet of surface area) with add-on HEPA filter system (66 square feet of surface area)**

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

Regulated Pollutant	Limits and Standards	Applicable Regulation
Visible emissions	20 percent opacity for ID No. D0221 only. See section 2.1 B. for requirements	15A NCAC 02D .0521
Hazardous air pollutants and volatile organic compounds	MACT Standards for Aerospace Manufacturing and Rework Facilities - Chemical Depainting Operations <b>See Section 2.2 A.4.</b>	15A NCAC 02D .1111 40 CFR Part 63, Subpart GG
Toxic air pollutants	Annual Emissions Rates for Toxic Air Pollutants Determined Pursuant to Acceptable Ambient Concentration Limits <b>See Section 2.2 B.2.</b>	15A NCAC 02D .1100



- D. Building 133:** High velocity oxygenated fuel (HVOF) thermal spray booth (ID No. A0009) with cartridge filter (ID No. CD-A0009) venting to shared HEPA filter CD-A0012 and  
Two high velocity oxygenated fuel (HVOF) thermal spray booths (ID Nos. A0010 and A0011) with cartridge filter (ID No. CD-A0010) both venting to shared HEPA filter CD-A0012

- Building 4225:** High velocity oxygenated fuel (HVOF) thermal spray booth (ID No. E0089) with scrubber (ID No. CD-E0089)  
High velocity oxygenated fuel (HVOF) thermal spray booth (ID No. E0165) with cartridge/HEPA filter system (ID No. CD-E0165)  
High velocity oxygenated fuel (HVOF) thermal spray booth (ID No. E0207) with a surface pretreatment process. Booth control device is scrubber (ID No. CD-E0207A) and surface pretreatment process control device is cyclone (ID No. CD-E0207B).

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	$E = 4.10 (P)^{0.67}$ (For process weight rates $\leq 30$ ton) Where P = process weight rate (tons/hour) E = allowable emission rate for particulate (lbs/hr)	15A NCAC 02D .0515
Sulfur dioxide	2.3 lbs sulfur dioxide per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Toxic air pollutants	Annual Emissions Rates for Toxic Air Pollutants Determined Pursuant to Acceptable Ambient Concentration Limits <b>See Section 2.2 B.2.</b>	15A NCAC 02D .1100

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

- a. Emissions of particulate matter from HVOF thermal spray booths listed above shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 02D .0515(a)]

$$E = 4.10 \times P^{0.67} \quad \text{Where: } E = \text{allowable emission rate in pounds per hour}$$

$$P = \text{process weight in tons per hour}$$

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ in Section 4 of this Permit. If the results of this test are above the limit given in Section 2.1 D.1.a. above in this building section, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.

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

- c. Particulate matter emissions from HVOF thermal spray booths listed above shall be controlled by the associated cartridge filter, HEPA filter, scrubber and/or cyclone. 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 is 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 control device housing structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if the ductwork and control device

housing are not inspected and maintained.

- d. 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,
  - iv. any variance from manufacturer's recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 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 cartridge filter/common HEPA filter within 30 days of a written request by the DAQ.
- f. 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.

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

- a. Emissions of sulfur dioxide from the (HVOF) thermal spray booths listed 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. [15A NCAC 02D .0516]

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ in Section 4 of this Permit. If the results of this test are above the limit given in Section 2.1 D.2.a. above in this building section, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

**Monitoring/Recordkeeping** [15A NCAC 02Q .0508(f) and 15A NCAC 02D .0501(c)(4)(A)]

- c. No monitoring, recordkeeping, or reporting is required for sulfur dioxide emissions from the combustion of propane, propylene, or hydrogen in these sources.

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

- a. Visible emissions from the (HVOF) thermal spray booths listed above 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. [15A NCAC 02D .0521 (d)]

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ in Section 4 of this Permit. If the results of this test are above the limit given in Section 2.1. D.3.a. above in this building 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.

**E. Building 4035: Six hard chrome plating tanks (ID Nos. T0099, T0100, T0105, T0106, T0155, and T0218) with a four-stage composite mesh pad scrubber (ID No. CR2R)**

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	MACT Standards for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks	15A NCAC 02D .1111 40 CFR Part 63, Subpart N

**1. 40 CFR Part 63, Subpart N, “National Emission Standards for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks”**

- a. As required by 40 CFR 63.342 (c)(1), during tank operation the concentration of total chromium in the exhaust gas stream discharged to the atmosphere for six hard chrome plating tanks (ID Nos. T0099, T0100, T0105, T0106, T0155, and T0218) in Building 4035 shall not exceed 0.015 mg/dscm.

**MACT MONITORING AND WORK PRACTICE STANDARDS**

- b. In addition to any other monitoring and work practice standards of the Environmental Protection Agency (EPA), the Permittee is required to:
  - i. In accordance with 40 CFR 63.342 (f)(1) the Permittee shall operate and maintain any affected source, including associated air pollution control devices and monitoring equipment, in a manner consistent with good air pollution practices, consistent with the operation and maintenance plan required by 40 CFR 63.342(f)(3).
  - ii. The Permittee shall prepare an operation and maintenance plan to be implemented and kept on site no later than January 25, 1997. The plan shall include the elements prescribed by 40 CFR 63.342(f)(3), which includes, but is not limited to:
    - (A) The plan shall specify the operation and maintenance criteria for the affected source, the add-on air pollution control device (if such a device is used to comply with the emission limits), and the process and control system monitoring equipment, and shall include a standardized checklist to document the operation and maintenance of this equipment;
    - (B) The plan shall specify procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur;
    - (C) The plan shall include a systematic procedure for identifying malfunctions of process equipment, add-on air pollution control devices, and process and control system monitoring equipment and for implementing corrective actions to address such malfunctions;
    - (D) Work Practice Standards for composite mesh-pad systems:
      - (1) Once a quarter visually inspect the control device to ensure there is proper drainage, no chromic acid buildup on the pads, and no evidence of chemical attack on the structural integrity of the control device, and
      - (2) Once a quarter visually inspect the back portion of the mesh pad closest to the fan to ensure there is no breakthrough of chromic acid mist, and
      - (3) Once a quarter inspect the ductwork from the tank to control device to ensure there are no leaks, and
      - (4) Perform washdown of the composite mesh pads in accordance with the manufacturer specifications.
    - (E) If the plan fails to address or inadequately addresses an event that meets the characteristic of a malfunction, the plan shall be revised within 45 days after such an event occurs.
  - iii. Monitoring Requirements to demonstrate continuous compliance in accordance with 40 CFR 63.343(c):
    - (A) Monitoring Requirements for composite mesh-pad systems:
      - (1) The Permittee shall monitor and record the pressure drop across the composite mesh-pad system once each day that any affected source is operating. To be in compliance with the standards, the composite mesh pad system shall be operated within +/- 2 inches of water column of the pressure drop average value established during the initial compliance test.
      - (2) In complying with the daily monitoring and recordkeeping requirements, the Permittee shall keep all required records: however, for each monitored source, the Permittee shall be allowed up to three days of missing records per six month period.
    - (B) Monitoring equipment shall be installed and operated as defined by the procedures under 40 CFR 63.344(d).

**MACT RECORDKEEPING REQUIREMENTS**

- c. In addition to any other record keeping requirements of the Environmental Protection Agency (EPA), the Permittee is required to maintain the following records as defined under 40 CFR 63.346:
- i. Inspection records for the add-on air pollution control device, if such a device is used, and monitoring equipment, to document that the inspection and maintenance required by the work practice standards of 40 CFR 63.342(f) and Table 1 of 40 CFR 63.342 have taken place. The record can take the form of a checklist and should identify the device inspected, the date of inspection, a brief description of the working condition of the device during the inspection, and any actions taken to correct deficiencies found during the inspection.
  - ii. Records of all maintenance performed on the affected source, the add-on air pollution control device, and monitoring equipment;
  - iii. Records of the occurrence, duration, and cause (if known) of each malfunction of process, add-on air pollution control, and monitoring equipment;
  - iv. Records of actions taken during periods of malfunction when such actions are inconsistent with the operation and maintenance plan;
  - v. Other records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the operation and maintenance plan required by 40 CFR 63.342(f)(3);
  - vi. Test reports documenting results of all performance tests;
  - vii. All measurements as may be necessary to determine the conditions of performance tests, including measurements necessary to determine compliance with the special compliance procedures of 40 CFR 63.344(e);
  - viii. Records of monitoring data required by 40 CFR 63.343(c) that are used to demonstrate compliance with the standard including the date and time the data is collected;
  - ix. The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during malfunction of the process, add-on air pollution control, or monitoring equipment;
  - x. The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions, as indicated by monitoring data, that occurs during periods other than malfunction of the process, add-on air pollution control, or monitoring equipment;
  - xi. The total process operating time of the affected source during the reporting period;
  - xii. For sources using fume suppressants to comply with the standards, records of the date and time that fume suppressants are added to the electroplating or anodizing bath;
  - xiii. Any information demonstrating whether a source is meeting the requirements for a waiver of record keeping or reporting requirements, if the source has been granted a waiver under 40 CFR 63.10(f);
  - xiv. All documentation supporting the notifications and reports required by 40 CFR 63.9, 63.10, and 63.347;
  - xv. All the days of missing records and the observations that immediately preceded and followed the missing records; and
  - xvi. All records shall be maintained for a period of 5 years in accordance with 40 CFR 63.10(b)(1).

**MACT REPORTING REQUIREMENTS**

- d. In addition to any other notification requirements of the Environmental Protection Agency (EPA), the Permittee is required to NOTIFY the Regional Supervisor, Division of Air Quality, in WRITING, of the following:
- i. As required by 40 CFR 63.342(f)(iv), if actions taken by the owner or operator during periods of malfunction are inconsistent with the procedures specified in the operation and maintenance plan required by 40 CFR 63.342(f)(3)(i), the owner or operator shall record the actions taken for that event and shall report by phone such actions within 2 working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within 7 working days after the end of the event.
  - ii. As required by 40 CFR 63.347(e), a notification of compliance status is required within 90 days following the completion of the initial performance test required by 40 CFR 63.7 and 40 CFR 63.343(b). The notification shall list for each affected source:
    - (A) The applicable emission limitation and the methods that were used to determine compliance with this limitation;
    - (B) The test report documenting the results of the performance test, which contains the elements required by 40 CFR 63.344(a), including measurements and calculations to support the special compliance provisions of 40 CFR 63.344(e) if these are being followed;
    - (C) The type and quantity of hazardous air pollutants emitted by the source reported in mg/dscm or mg/hr if the source is using the special provisions of 40 CFR 63.344(e) to comply with the standards.
    - (D) For each monitored parameter for which a compliant value is to be established under 40 CFR 63.343(c), the specific operating parameter value, or range of values, that corresponds to compliance with the applicable emission limit;

- (E) The methods that will be used to determine continuous compliance, including a description of monitoring and reporting requirements, if methods differ from those identified in Subpart N;
  - (F) A description of the air pollution control technique for each emission point;
  - (G) A statement that the owner or operator has completed and has on file the operation and maintenance plan as required by the work practice standards in 40 CFR 63.342(f);
  - (H) A statement by the owner or operator of the affected source as to whether the source has complied with the provisions of this Subpart.
- iii. New and reconstructed sources are subject to the requirements of 40 CFR 63.345 and 40 CFR 63.347, including reporting requirements.
- iv. Ongoing compliance status reports for major sources:  
In accordance with 40 CFR 63.347(g), the Permittee shall submit, semiannually (by July 30 of each year for the first half of the year, and by January 30 for the second half of the year) an ongoing compliance status summary report. Once the Permittee reports an exceedance, ongoing compliance status reports shall be submitted quarterly until a request to reduce reporting frequency is approved. The ongoing compliance status report shall contain, at a minimum:
- (A) the company name and address of the affected source;
  - (B) an identification of the operating parameter that is monitored for compliance determination, as required by 40 CFR 63.343(c);
  - (C) the relevant emission limitation for the affected source, and the operating parameter value, or range of values, that correspond to compliance with this emission limitation as specified in the notification of compliance status;
  - (D) the beginning and ending dates of the reporting period;
  - (E) a description of the type of process performed in the affected source;
  - (F) the total operating time of the affected source during the reporting period;
  - (G) a summary of operating parameter values, including the total duration of excess emissions during the reporting period as indicated by those values, the total duration of excess emissions expressed as a percent of the total source operating time during that reporting period, and a breakdown of the total duration of excess emissions during the reporting period into those that are due to process upsets, control equipment malfunctions, other known causes, and unknown causes. [The Permittee shall be allowed up to 3 days of missing records per six-month period. The Permittee shall report the days of any missing records and the observations that immediately preceded and followed the missing records]
  - (H) a certification by a responsible official, as defined in 40 CFR 63.2, that the work practice standards in 40 CFR 63.342(f) were followed in accordance with the operation and maintenance plan for the source;
  - (I) if the operation and maintenance plan required by 40 CFR 63.342(f)(3) was not followed, an explanation of the reasons for not following the provisions, an assessment of whether any excess emission and/or parameter monitoring exceedances are believed to have occurred, and a copy of the report(s) required by 40 CFR 63.342(f)(3)(iv) documenting that the operation and maintenance plan was not followed;
  - (J) a description of any changes in monitoring, processes, or controls since the last reporting period;
  - (K) The name, title, and signature of the responsible official who is certifying the accuracy of the report; and
  - (L) the date of the report.

- F. Building 4035: nickel strike tank (ID No. T0074) with vertical packed-bed tower scrubber (ID No. AOH2) process plating tanks (ID Nos. T0127 and T0131) with vertical packed-bed scrubber (ID No. AOH3) zinc nickel plating tank (ID No. T0184) with vertical packed-bed scrubber (ID No. AOH4) nickel strike tank (ID No. T0188) with vertical packed-bed scrubber (ID No. AOH4)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Toxic air pollutants	Annual Emissions Rates for Toxic Air Pollutants Determined Pursuant to Acceptable Ambient Concentration Limits <b>See Section 2.2 B.2.</b>	15A NCAC 02D .1100

- G. Building 133: Four distillate/distillate equivalent fuel-fired turbine engines-APU test cells (ID Nos. A0001, A0002, A0003, and A0004)**

**Building 137: Six distillate fuel/distillate equivalent fuel-fired turbine engines-APU test cells (ID Nos. D0147, D0148, D0149, D0150, D0151, and D0152)**

**Building 3402: Distillate/distillate equivalent fuel-fired turbine engine-APU test cell (ID No. A0077)**

**Building 4188: Distillate fuel/distillate equivalent fuel-fired turbine engine-APU test cell (ID No. A0058)**

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	MACT Standards for Engine Test Cells/Stands	15A NCAC 02D .1111 40 CFR Part 63, Subpart P P P P P
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516

**1. 40 CFR Part 63, Subpart P P P P P, “National Emission Standards for Engine Test Cells/Stands”**

a. The facility is a major source of HAP and operates engine test cells/stands, therefore the facility is subject to 40 CFR 63, Subpart P P P P P. Each of the engine or test cells is used exclusively for testing combustion turbine engines. Per 40 CFR 63.9290(d)(1), the emission sources do not have to meet the requirements of this subpart and of subpart A of this part.

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

a. Emissions of sulfur dioxide from the test cells/test stands 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. [15A NCAC 02D .0516]

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

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ in Section 4 of this Permit. 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 .0516.

**Monitoring/Recordkeeping/Reporting** [15A NCAC 02Q .0508(f) and 15A NCAC 02D .0501(c)(4)(A)]

- c. No monitoring, recordkeeping, or reporting is required for sulfur dioxide emissions from the firing of distillate or distillate equivalent fuel in jet engine-APU test cells listed above.

**H. Building 84: Wood working operation and dust collection system (ID No. D0127) with one associated simple cyclone (104 inches in diameter, ID No. CD-D0127)**

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 MISCELLANEOUS 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 the wood working operation and dust collection system (ID No. D0127) shall be controlled by one simple cyclone (ID No. CD-D0127). 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 monthly external inspection of the ductwork, and cyclone, noting the structural integrity.  
 The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if the ductwork and cyclone are not inspected and maintained.

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

- c. The results of inspection and maintenance for the cyclone 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 the cyclone.
 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 cyclone within 30 days of a written request by the DAQ.
- e. 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.

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

- a. Visible emissions from woodworking operation (ID No. D0127) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 02D .0521 (d)]

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

- b. If emission testing is required, the testing shall be performed in accordance with General Condition JJ in Section 4 of this Permit. If the results of this test are above the limit given in Section 2.1. H.2.a. above in this building, the

Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

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

- c. To ensure compliance, monthly, the Permittee shall observe the emission points of this source for any visible emissions above normal. If visible emissions from this source are observed to be above normal, the Permittee shall either: (a) be deemed to be in noncompliance with 15A NCAC 02D .0521 or (b) demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .0501(c)(8) is below the limit given in Section 2.1. H.2.a. above in this building. If the demonstration in (b) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

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

- d. 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 recorded action;
  - ii. the results of each observation and/or test noting that this source's emissions 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 observations 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. Building 133: Solvent cleaning spray booth (ID No. B0040)**

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	MACT Standards for Aerospace Manufacturing and Rework Facilities - Cleaning Operations. <b>See Section 2.2 A.1.d.</b>	15A NCAC 02D .1111 40 CFR Part 63, Subpart GG

**J. Building 137: Two JP5 fuel-fired heat exchangers (ID Nos. D0113 and D0114)**

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

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	JP-5 fuel-fired 0.51 pounds per million Btu heat input	15A NCAC 02D .0503
Sulfur dioxide	2.3 lbs sulfur dioxide per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Hazardous air pollutants	Industrial, Commercial, and Institutional Boilers and Process Heaters	40 CFR Part 63 Subpart DDDDD

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

- a. Emissions of particulate matter from the combustion of JP5 fuel or similar distillate that are discharged from these sources (ID Nos. D0113 and D0114) into the atmosphere shall not exceed 0.51 pounds per million Btu heat input.

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ in Section 3



of this Permit. If the results of this test are above the limit given in Section 2.1 J.1.a. above in this building section, 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 JP5 fuel or similar distillate in these sources (ID Nos. D0113 and D0114).

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

- a. Emissions of sulfur dioxide from the (HVOF) thermal spray booths listed 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. [15A NCAC 02D .0516]

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ in Section 4 of this Permit. If the results of this test are above the limit given in Section 2.1 D.2.a. above in this building section, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

**Monitoring/Recordkeeping [15A NCAC 02Q .0508(f) and 15A NCAC 02D .0501(c)(4)(A)]**

- c. No monitoring, recordkeeping, or reporting is required for sulfur dioxide emissions from the combustion of JP5 fuel or similar distillate in these sources.

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

- a. Visible emissions from the heat exchangers listed above 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. [15A NCAC 02D .0521 (d)]

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

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ in Section 4 of this Permit. If the results of this test are above the limit given in Section 2.1 J.3.a. above in this building 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.

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

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

- a. For these sources (ID Nos. ES-D0113 and ES-D0114) (*i.e., units designed to burn light liquid fuel between 5 and 10 million Btu/hr with no oxygen trim*), 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," including Subpart A "General Provisions."

**Definitions and Nomenclature [40 CFR 63.7575]**

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

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

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

**Compliance Date [40 CFR 63.7495(a)]**

- d. The Permittee shall comply with the applicable requirements upon startup of these sources.

**Notifications [40 CFR 63.7545]**

- e. As specified in 40 CFR 63.9(b)(4) and (5), the Permittee shall submit an Initial Notification to the DAQ not later than 15 days after the actual date of startup of the affected source. [40 CFR 63.7545(c)]  
The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if this notification requirement is not

met.

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

- f. The following work practice standards apply:
- i. The Permittee shall conduct a tune-up every two years 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 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 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 CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject.
    - (E) Measure the concentrations in the effluent stream of CO 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.  
[40 CFR 63.7500(a), 63.7540(a)(10) and (a)(11)]
  - ii. Each biennial tune-up shall be conducted no more than 25 months after the previous tune-up. The initial tune-up shall be conducted no later than 25 months after the initial startup of the source. [40 CFR 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. [40 CFR 63.7540(a)(13), 63.7515(g)]
  - iv. At all times, the Permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.7500(a)(3)]  
The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these work practice requirements are not met.

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

- g. The Permittee shall:
- i. keep 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 compliance report that has been submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv). [40 CFR 63.7555(a)(1)]
  - ii. maintain on-site and submit, if requested by the DAQ, a report containing the information in paragraphs (A) through (C) below:
    - (A) the concentrations of CO 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 heat exchanger;
    - (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.  
[40 CFR 63.7540(a)(10)(vi)]
  - iii. keep the associated records for Section 2.1 J.4.f.
  - iv. keep:
    - (A) records in a form suitable and readily available for expeditious review;
    - (B) each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record; and
    - (C) each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The Permittee can keep the records offsite for the remaining 3 years.  
[40 CFR 63.7560, 63.10(b)(1)]The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these recordkeeping requirements are not met.

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

- h. The following reporting requirements apply:
- i. The Permittee shall submit compliance reports to the DAQ on a two-year basis. The first report shall cover the period beginning on start-up and ending on the earliest December 31<sup>st</sup> less than two years from the compliance date. Subsequent two-year reports shall cover the periods from January 1 to December 31. The Permittee shall submit the compliance reports postmarked on or before January 30. [40 CFR 63.7550(a), (b)]
  - ii. 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/>.) The Permittee shall use the appropriate electronic report in CEDRI for this subpart. Instead of using the electronic report in CEDRI for this subpart, the Permittee 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, the Permittee shall submit the report to the Administrator at the appropriate address listed in 40 CFR 63.13. The Permittee shall begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI. [40 CFR 63.7550(h)(3)]
  - iii. The compliance report must contain the following information:
    - (A) company name and address.
    - (B) process unit information, emissions limitations, and operating parameter limitations.
    - (C) date of report and beginning and ending dates of the reporting period.
    - (D) include the date of the most recent tune-up for each unit required according to Section 2.1 J.4.f. Include the date of the most recent burner inspection if it was not done annually and was delayed until the next scheduled or unscheduled unit shutdown.
    - (E) statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

[40 CFR 63.7550(a) and (c), Table 9 to 40 CFR Part 63, Subpart DDDDD]

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

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

### A. Aerospace Rework and Manufacturing Facilities

#### 1. 15A NCAC 02D .1111: EMISSION STANDARDS FOR AEROSPACE MANUFACTURING AND REWORK FACILITIES (40 CFR 63, Subpart GG) - Cleaning Operations

##### Housekeeping Measures [40 CFR 63.744(a)]

- a. Cleaning operations shall comply with the following requirements unless the cleaning solvent used is an approved cleaning solvent or contains HAP and VOC at concentrations less than 0.1 percent for carcinogens or 1.0 percent for non-carcinogens, as determined from manufacturer's representations.
  - i. Approved cleaning solvents shall consist of:
    - (A) aqueous cleaning solvents in which water is the primary ingredient (greater than or equal to 80 percent by volume 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; and
    - (B) non-HAP hydrocarbon-based cleaners that are composed of photochemically reactive hydrocarbons and/or oxygenated hydrocarbons and have a maximum vapor pressure of 7 mm Hg at 20 °C (3.75 inches water and 68° F).
  - ii. The Permittee shall:
    - (A) place used solvent-laden cloth, paper, or any other absorbent applicators used for cleaning in bags or other closed containers;
    - (B) ensure that these bags and containers are kept closed at all times except when depositing or removing these materials from the container; and
    - (C) use bags and containers of such design so as to contain the vapors of the cleaning solvent.
    - (D) Cotton-tipped swabs used for very small cleaning operations are exempt from the above requirements.
  - iii. The Permittee shall store fresh and spent cleaning solvents, except semi-aqueous solvent cleaners (at 60 percent by volume water), used in aerospace cleaning operations in closed containers.
  - iv. The Permittee shall conduct the handling and transfer of cleaning solvents to or from enclosed systems, vats, waste containers, and other cleaning operation equipment that hold or store fresh or spent cleaning solvents in such a manner that minimizes spills.

Each affected cleaning operation shall be considered in noncompliance if the Permittee fails to institute and carry out the housekeeping measures required above. Incidental emissions resulting from the activation of pressure release vents and valves on enclosed cleaning systems are exempt.

##### Hand-Wipe Cleaning Operations [40 CFR 63.744(b)]

- b. Hand-wipe cleaning operations (excluding cleaning of spray gun equipment performed in accordance with the provisions of this permit) shall use cleaning solvents that meet one of the requirements specified below:
  - i. the cleaning solvent solution shall contain HAP and VOC at concentrations less than 0.1 percent for carcinogens or 1.0 percent for non-carcinogens, as determined from manufacturer's representations;
  - ii. the cleaning solvent shall be an approved cleaning solvent (Section 2.2 A.1.a.i)
  - iii. the cleaning solvent shall have a composite vapor pressure of 45 mm Hg (24.1 inches water) or less at 20 °C (68 °F). Exempt Cleaning Operations [40 CFR 63.744(e)]
  - iv. The following cleaning operations are exempt from the above requirements;
    - (A) cleaning during the manufacture, assembly, installation, maintenance, or testing of components of breathing oxygen systems that are exposed to the breathing oxygen;
    - (B) cleaning during the manufacture, assembly, installation, maintenance, or testing of parts, subassemblies, or assemblies that are exposed to strong oxidizers or reducers (e.g., nitrogen tetroxide, liquid oxygen, or hydrazine);
    - (C) cleaning and surface activation prior to adhesive bonding;
    - (D) cleaning of electronic parts and assemblies containing electronic parts;
    - (E) cleaning of aircraft and ground support equipment fluid systems that are exposed to the fluid, including air-to-air heat exchangers and hydraulic fluid systems;

- (F) cleaning of fuel cells, fuel tanks, and confined spaces;
- (G) surface cleaning of solar cells, coated optics, and thermal control surfaces;
- (H) cleaning during fabrication, assembly, installation, and maintenance of upholstery, curtains, carpet, and other textile materials used in the interior of the aircraft;
- (I) cleaning of metallic and nonmetallic materials used in honeycomb cores during the manufacture or maintenance of these cores, and cleaning of the completed cores used in the manufacture of aerospace vehicles or components;
- (J) cleaning of aircraft transparencies, polycarbonate, or glass substrates;
- (K) cleaning and cleaning solvent usage associated with research and development, quality control, and laboratory testing; and
- (L) cleaning operations, using non-flammable liquids, conducted within five feet of energized electrical systems. Energized electrical systems means any AC or DC electrical circuit on an assembled aircraft once electrical power is connected, including interior passenger and cargo areas, wheel wells and tail sections. Affected hand-wipe cleaning operation shall be considered in compliance when all hand-wipe cleaning solvents, excluding those used for hand cleaning of spray gun equipment, meet the composition requirements specified above.

**Each Spray Gun Cleaning Operation [40 CFR 63.744(c)]**

- c. Spray gun cleaning operations in which spray guns are used for the application of coatings or any other materials that require the spray guns to be cleaned shall use one or more of the techniques, or their equivalent, specified below.
  - Enclosed Cleaning [40 CFR 63.744(c)(1)]
    - i. The Permittee shall clean the spray gun in an enclosed system that is closed at all times except when inserting or removing the spray gun.
      - (A) Cleaning shall consist of forcing solvent through the gun.
      - (B) If leaks are found during the monthly inspection, repairs shall be made as soon as practicable, but no later than 15 days after the leak was found.
      - (C) If the leak is not repaired by the 15th day after detection, the cleaning solvent shall be removed, and the enclosed cleaner shall be shut down until the leak is repaired or its use is permanently discontinued.
    - Nonatomized Cleaning [40 CFR 63.844(c)(2)]
      - ii. Clean the spray gun by placing cleaning solvent in the pressure pot and forcing it through the gun with the atomizing cap in place.
        - (A) No atomizing air is to be used.
        - (B) Direct the cleaning solvent from the spray gun into a vat, drum, or other waste container that is closed when not in use.
    - Disassembled Spray Gun Cleaning [40 CFR 63.844(c)(3)]
      - iii. Disassemble the spray gun and clean the components by hand in a vat that shall remain closed at all times except when in use, or soak the components in a vat that shall remain closed during the soaking period and when not inserting or removing components.
    - Atomized Cleaning [40 CFR 63.844(c)(4)]
      - iv. Clean the spray gun by forcing the cleaning solvent through the gun and direct the resulting atomized spray into a waste container that is fitted with a device designed to capture the atomized cleaning solvent emissions.
    - Exemptions:
      - v. The following cleaning operations are exempt from the above requirements;
        - (A) cleaning of the nozzle tips of automated spray equipment systems, except for robotic systems that can be programmed to spray into a closed container, shall be exempt from these requirements; and
        - (B) spray gun cleaning operations using cleaning solvent solutions that contain HAP and VOC at concentrations less than 0.1 percent for carcinogens or 1.0 percent for non-carcinogens, as determined from manufacturer's representations.

An affected spray gun cleaning operation shall be considered in compliance when each of the above conditions is met.

**Flush Cleaning Operations [40 CFR 63.744(d)]**

- d. Flush cleaning operations, excluding those that approved composition (Section 2.2 A.1.a.i) or are semi-aqueous cleaning solvents (at least 60 percent by volume water as applied), shall empty the used cleaning solvent each time

aerospace parts or assemblies, or components of a coating unit (with the exception of spray guns) are flush cleaned into an enclosed container or collection system that is kept closed when not in use or into a system with equivalent emission control. An affected flush cleaning operation shall be considered in compliance if the operating requirements specified above are implemented and carried out.

**Monitoring [40 CFR 63.751(a)]**

- e. The Permittee shall visually inspect the seals and all other potential sources of leaks associated with each enclosed gun spray cleaner system at least once per month. Each inspection shall occur while the system is in operation.

**Recordkeeping [40 CFR 63.752(b)]**

- f. The Permittee shall maintain the following record for each cleaning operation, as appropriate.
  - i. The name, vapor pressure, and documentation showing the organic HAP constituents of each cleaning solvent used for affected cleaning operations at the facility.
  - ii. For each cleaning solvent used in hand-wipe cleaning operations that complies with approved composition requirements (Section 2.2 A.1.a.i) or for semi-aqueous cleaning solvents (at least 60 percent by volume water as applied) used for flush cleaning operations:
    - (A) the name of each cleaning solvent used;
    - (B) all data and calculations that demonstrate that the cleaning solvent complies with one of the approved composition requirements (Section 2.2 A.1.a.i); and
    - (C) annual records of the volume of each solvent used, as determined from facility purchase records or usage records.
  - iii. For each cleaning solvent used in hand-wipe cleaning operations that does not comply with the approved composition requirements (Section 2.2 A.1.a.i), but has a composite vapor pressure of 45 mm Hg (24.1 inches water) or less at 20 °C (68 °F).
    - (A) the name of each cleaning solvent used;
    - (B) the composite vapor pressure of each cleaning solvent used;
    - (C) all vapor pressure test results, if appropriate, data, and calculations used to determine the composite vapor pressure of each cleaning solvent; and
    - (D) the amount (in gallons) of each cleaning solvent used each month at each operation.
  - iv. For each cleaning solvent used for the exempt hand-wipe cleaning operations that does not conform to the vapor pressure or composition requirements of Section 2.2 A.1.b.i through 2.2 A.1.b.iii.:
    - (A) the identity and amount (in gallons) of each cleaning solvent used each month at each operation; and
    - (B) a list of the exempt processes pursuant to Section 2.2 A.1.b.iv. to which the cleaning operation applies.
  - v. A record of all leaks from enclosed spray gun cleaners identified pursuant to Section 2.2 A.1.e. that includes for each leak found:
    - (A) source identification;
    - (B) date leak was discovered; and
    - (C) date leak was repaired.

**Reporting [40 CFR 63.753(b)]**

- g. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before November 1 of each calendar year for the preceding six-month period between March and August and May 1 of each calendar year for the preceding six-month period between September and February. The report shall submit the following information:
  - i. any instance where a noncompliant cleaning solvent is used for a non-exempt hand-wipe cleaning operation;
  - ii. a list of any new cleaning solvents used for hand-wipe cleaning in the previous 6 months and, as appropriate, their composite vapor pressure or notification that they comply with the composition requirements specified in of Section 2.2 A.1.b.i through 2.2 A.1.b.iii.;
  - iii. any instance where a noncompliant spray gun cleaning method is used;
  - iv. any instance where a leaking enclosed spray gun cleaner remains unrepaired and in use for more than 15 days; and
  - v. if the operations have been in compliance for the semiannual period, a statement that the cleaning operations have been in compliance with the applicable standards. Sources shall also submit a statement of compliance signed by a responsible company official certifying that the facility is in compliance with all applicable requirements.

**2. 15A NCAC 02D .1111: EMISSION STANDARDS FOR AEROSPACE MANUFACTURING AND REWORK FACILITIES (40 CFR 63, Subpart GG) - Primer and Top Coat Application Operations**

**Standards for Primer and Topcoat Application operations (40 CFR 63.745)**

- a. The Permittee shall conduct the handling and transfer of primers and topcoats to or from containers, tanks, vats, vessels, and piping systems in such a manner that minimizes spills.
- b. The Permittee shall comply with the organic HAP and VOC content limits specified below.
  - i. Organic HAP emissions from primers shall be limited to an organic HAP content level of no more than 350 g/L (2.9 lb/gal) of primer (less water), as applied.
  - ii. VOC emissions from primers shall be limited to a VOC content level of no more than 350 g/L (2.9 lb/gal) of primer (less water and exempt solvents), as applied.
  - iii. Organic HAP emissions from topcoats (including self priming topcoats) shall be limited to an organic HAP content level of no more than 420 g/L (3.5 lb/gal) of coating (less water) as applied.
  - iv. VOC emissions from topcoats (including self priming topcoats) shall be limited to a VOC content level of no more than 420 g/L (3.5 lb/gal) of coating (less water and exempt solvents) as applied.
  - v. 40 CFR 63.749(d) - Each 24 hours is considered to be a compliance test for each of the limits above.
- c. All primers and topcoats (including self-priming topcoats) shall be applied using approved application methods including; flow/curtain coating; dip coating; roll coating; brush coating; cotton tip swab application; electrodeposition coating; high volume low pressure (HVLP) spraying; electrostatic spray; or other coating application methods that achieve emission reductions equivalent to HVLP or electrostatic spray application methods with the exceptions of;
  - i. any situation that normally requires the use of an airbrush or an extension on the spray gun to properly reach limited access spaces;
  - ii. the application of coatings that contain fillers that adversely affect atomization with HVLP spray guns and that the permitting agency has determined cannot be applied by other approved application methods (i.e., flow/curtain coat application, dip coat application, roll coating, brush coating, cotton-tipped swab application, electro-deposition dip coating, or electrostatic spray application);
  - iii. the application of coatings that normally have a dried film thickness of less than 0.0013 centimeter (0.0005 inches) and that the DAQ has determined cannot be applied by other approved application methods (i.e., flow/curtain coat application, dip coat application, roll coating, brush coating, cotton-tipped swab application, electro-deposition dip coating, or electrostatic spray application);
  - iv. the use of airbrush application methods for stenciling, lettering, and other identification markings;
  - v. the use of hand-held spray can application methods; and
  - vi. touch-up and repair operations.
- d. All application devices used to apply primers or topcoats (including self-priming topcoats) shall be operated according to company procedures, local specified operating procedures, and/or the manufacturer’s specifications, whichever is most stringent, at all times. Equipment modified by the facility shall maintain transfer efficiency equivalent to HVLP and electrostatic spray application techniques.
- e. The Permittee shall apply primer or topcoat coatings that are spray applied and contain inorganic HAP in a booth or hangar in which airflow is directed downward onto or across the part or assembly being coated and exhausted through one or more outlets. The air stream(s) from the operation shall be controlled with a dry particulate filter system certified by the equipment provider or Permittee using EPA Method 319 (40 CFR 63, Appendix A) to meet or exceed the efficiency data points as follows:
  - i. for existing affected sources with dry filters (two-stage arrestor) [40 CFR 63.745(g)(2)(i)(A)]:

<u>Liquid Phase</u>	
Filtration efficiency requirement	% Aerodynamic particle size range, µm
> 90 .....	> 5.7
> 50 .....	> 4.1
> 10 .....	> 2.2

<u>Solid Phase</u>	
Filtration efficiency requirement	% Aerodynamic particle size range, µm
> 90 .....	> 8.1
> 50 .....	> 5.0
> 10 .....	> 2.6

- ii. For new affected sources with dry filters (three-stage arrestor) [40 CFR 63.745(g)(2)(ii)(A)]:

<u>Liquid Phase</u>	
Filtration efficiency requirement	% Aerodynamic particle size range, $\mu\text{m}$
> 90 .....	> 2.0
> 80 .....	> 1.0
> 65 .....	> 0.42

  

<u>Solid Phase</u>	
Filtration efficiency requirement	% Aerodynamic particle size range, $\mu\text{m}$
> 90 .....	> 2.5
> 85 .....	> 1.1
> 75 .....	> 0.70

- iii. The air stream(s) from the existing hangar coating operation (ID No. D0129) shall be controlled with a three stage dry particulate filter system [40 CFR 63.745(g)(2)(iii)(B)].

This provision does not apply to: touch-up of scratched surfaces or damaged paint; hole daubing for fasteners; touch-up of trimmed edges; coating prior to joining dissimilar metal components; stencil operations performed by brush or air brush; section joining; touch-up of bushings and other similar parts; sealant detackifying; the use of hand-held spray can application methods; and the painting of parts in the general hangar areas of Buildings 133, 137, 188, 1665, 4032, 4036, and 4224 where it is not technically feasible to paint parts in a spray booth.

**40 CFR 63.743(b).**

- f. The Permittee shall operate the dry filter system in accordance with the manufacturer's instructions (exempt from a startup, shut down, and malfunction plan requirements).

**Monitoring and Recordkeeping**

- g. The dry particulate filter systems on coating operations shall be maintained in good working order and have differential pressure gauges installed across the filter banks.
  - i. The pressure drop across a filter bank shall be continuously monitored, and a value read and recorded once per shift in a log.
    - (A) 40 CFR 63.752(d)(3) - The log shall include the acceptable limits of pressure drop as specified in this permit.
    - (B) Pursuant to the EPA accepted recordkeeping waiver [40 CFR 63.10(f)], the Permittee is allowed three days (nine shifts) of absent pressure drop records per monitor per semi-annual reporting period.
  - ii. Pursuant to 40 CFR 63.745(g)(3), if the pressure drop across a dry particulate filter bank is below the minimum or above the maximum pressure drop values (DP wg) specified by the filter manufacturer or in locally prepared operating procedures, shut down the operation immediately and take corrective action. The operation shall not be resumed until the pressure drop is returned to within the specified limits.

*For convenience, these values are contained in the following table, excluding any ongoing administrative amendments.*

Control System ID No./ Filter Bank ID	Min ( $\Delta\text{P}$ wg)	Max ( $\Delta\text{P}$ wg)	Control System ID No./ Filter Bank ID	Min ( $\Delta\text{P}$ wg)	Max ( $\Delta\text{P}$ wg)
Building 84			Building 137		
CD-D0069 <sup>EAF</sup>	0.05	0.30	CD-C0005 <sup>EAF</sup>	0.10	1.0
Building 129			CD-C0056 <sup>EAF</sup>	0.10	0.75
CD-D0061 <sup>EAF</sup>	0.25	0.60	CD-C0062 <sup>EAF</sup>	0.40	0.80
CD-D0066 <sup>EAF</sup>	0.10	0.30	CD-D0008 <sup>EAF</sup>	0.3	1.6
Building 133			CD-D0009 <sup>EAF</sup>	0.3	1.6
CD-A0019 <sup>NAF</sup>	0.03	0.55	CD-D0036 <sup>EAF</sup>	0.10	0.30



Control System ID No./ Filter Bank ID	Min ( $\Delta P$ wg)	Max ( $\Delta P$ wg)	Control System ID No./ Filter Bank ID	Min ( $\Delta P$ wg)	Max ( $\Delta P$ wg)
CD-A0032 <sup>NAF</sup>	0.03	0.55	CD-D0131 <sup>EAF</sup>	0.10	0.30
Building 245			Building 1798		
CD-D0106 <sup>EAF</sup> /651	0.20	1.6	CD-D0052 <sup>EAF</sup> /DS050	0.05	1.60
CD-D0106 <sup>EAF</sup> /652	0.20	1.6	CD-D0052 <sup>EAF</sup> /DS051	0.05	1.60
CD-D0106 <sup>EAF</sup> /653	0.20	1.6	CD-D0052 <sup>EAF</sup> /DS052	0.05	1.60
CD-D0106 <sup>EAF</sup> /654	0.20	1.6	CD-D0052 <sup>EAF</sup> /DS053	0.05	1.60
CD-D0106 <sup>EAF</sup> /655	0.20	1.6	CD-D0052 <sup>EAF</sup> /DS054	0.05	1.60
CD-D0106 <sup>EAF</sup> /656	0.20	1.6	CD-D0052 <sup>EAF</sup> /DS055	0.05	1.60
CD-D0106 <sup>EAF</sup> /657	0.20	1.6	Building 3767		
CD-D0106 <sup>EAF</sup> /658	0.20	1.6	CD-D0056 <sup>EAF</sup>	0.10	0.30
CD-D0106 <sup>EAF</sup> /659	0.20	1.6	Building 4032		
CD-D0106 <sup>EAF</sup> /660	0.20	1.6	CD-A0179 <sup>NAF</sup>	0.01	2.00
CD-D0106 <sup>EAF</sup> /661	0.20	1.6	Building 4224		
CD-D0106 <sup>EAF</sup> /662	0.20	1.6	CD-B0101 <sup>EAF</sup>	0.10	0.40
CD-D0106 <sup>EAF</sup> /663	0.20	1.6	Building 4225		
CD-D0106 <sup>EAF</sup> /664	0.20	1.6	CD-E0160 <sup>EAF</sup>	0.1	1.0
CD-D0106 <sup>EAF</sup> /665	0.20	1.6			
CD-D0106 <sup>EAF</sup> /666	0.20	1.6			
CD-D0129 <sup>IAF</sup> /A	0.10	2.0			
CD-D0129 <sup>IAF</sup> /B	0.10	2.0			
CD-D0226 <sup>NAF</sup>	0.35	2.85			

<sup>EAF</sup> Existing affected facility for NESHAP applicability and control requirements  
<sup>IAF</sup> Interim affected facility for NESHAP applicability and control requirements  
<sup>NAF</sup> New affected facility for NESHAP applicability and control requirements  
TBD To be determined

- iii. If the booth manufacturer’s maintenance procedures for the filter have not been performed as scheduled, shut down the operation immediately and take corrective action.
- iv. 40 CFR 63.10(b) - The Permittee shall keep records of:
  - (A) the occurrence and duration of each startup, shutdown, or malfunction of the coating operation;
  - (B) the occurrence and duration of each malfunction of the dry filter bank and/or pressure drop monitoring equipment;
  - (C) all required maintenance performed on the dry filter bank and pressure drop monitoring equipment;
  - (D) when actions are different from the procedures specified in the SSMP, all actions that were taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and air pollution control equipment to its normal or usual manner of operation);
  - (E) each period during which the pressure drop monitoring equipment is malfunctioning or inoperative (including out-of-control periods);
  - (F) all results of performance tests and continuous monitor system performance evaluations;
  - (G) all measurements, as may be necessary, to determine the conditions of performance tests and performance evaluations;
  - (H) all continuous monitoring system calibration checks;
  - (I) all adjustments and maintenance performed on continuous monitor system;
  - (J) all required continuous monitoring system measurements (including monitoring data recorded during unavoidable continuous monitoring system breakdowns and out-of-control periods);
  - (K) the date and time identifying each period during which the continuous monitoring system was inoperative

- except for zero (low-level) and high-level checks;
- (L) the date and time identifying each period during which the continuous monitoring system was out of control, as defined in 40 CFR 63.8(c)(7);
- (M) the date and time of commencement and completion of each period of parameter monitoring exceedances, that occur during startups, shutdowns, and malfunctions;
- (N) the date and time of commencement and completion of each period of parameter monitoring exceedances that occur during periods other than startups, shutdowns, and malfunctions;
- (O) the nature and cause of any malfunction (if known);
- (P) the corrective action taken or preventive measures adopted;
- (Q) the nature of the repairs or adjustments to the continuous monitoring system that was inoperative or out of control;
- (R) the total process operating time during the reporting period;
- (S) all procedures that are part of a quality control program developed and implemented for continuous monitoring system under 40 CFR 63.8(d).

**40 CFR 63.752(c)**

- h. The Permittee shall record the following information, as appropriate.
  - i. The name and VOC content as received and as applied of each primer and topcoat used at the facility.
  - ii. For compliant (uncontrolled) primers and topcoats:
    - (A) the mass of organic HAP emitted per unit volume of coating as applied (less water) ( $H_i$ ) and the mass of VOC emitted per unit volume of coating as applied (less water and exempt solvents) ( $G_i$ ) for each coating formulation within each coating category used each month (as calculated using the procedures specified in 40 CFR 63.750(c) and (e));
    - (B) all data, calculations, and test results (including EPA Method 24 results) used in determining the values of  $H_i$  and  $G_i$ ; and
    - (C) the volume (in gallons) of each coating formulation within each coating category used each month.
  - iii. For "low HAP content" uncontrolled primers with organic HAP content less than or equal to 250 g/l (2.1 lb/gal) less water as applied and VOC content less than or equal to 250 g/l (2.1 lb/gal) less water and exempt solvents as applied:
    - (A) annual purchase records of the total volume of each primer purchased; and
    - (B) all data, calculations, and test results (including EPA Method 24 results) used in determining the organic HAP and VOC content as applied. These records shall consist of the manufacturer's certification when the primer is applied as received, or the data and calculations used to determine  $H_i$  if not applied as received.

**40 CFR 63.743(d)(i-iii)**

- i. Instead of complying with the individual coating limits in 40 CFR 63.745, a facility may choose to comply with the averaging provisions specified in paragraphs (i)(i) through (i)(iii) of this section.
  - i. Each owner or operator of a new or existing source shall use any combination of primers, topcoats (including self-priming topcoats), specialty coatings, Type I chemical milling maskants, or Type II chemical milling maskants such that the monthly volume-weighted average organic HAP and VOC contents of the combination of primers, topcoats, specialty coatings, Type I chemical milling maskants, or Type II chemical milling maskants, as determined in accordance with the applicable procedures set forth in 40 CFR 63.750 and complies with the specified content limits in 40 CFR 63.745, unless the permitting agency specifies a shorter averaging period as part of an ambient ozone control program.
  - ii. Averaging is allowed only for uncontrolled primers, topcoats (including self-priming topcoats), specialty coatings, Type I chemical milling maskants, or Type II chemical milling maskants.
  - iii. Averaging is not allowed between specialty coating types defined in appendix A to this subpart, or between the different types of coatings specified in paragraphs (d)(iii)(A) through (G) of this section.
    - (A) Primers and topcoats (including self-priming topcoats).
    - (B) Type I and Type II chemical milling maskants.
    - (C) Primers and chemical milling maskants.
    - (D) Topcoats and chemical milling maskants.
    - (E) Primers and specialty coatings.
    - (F) Topcoats and specialty coatings.
    - (G) Chemical milling maskants and specialty coatings.

**Reporting**

- j. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before November 1 of each calendar year for the preceding six-month period between March and August and May 1 of

each calendar year for the preceding six-month period between September and February. The report shall submit the following information:

- i. for primers and topcoats, each value of H<sub>i</sub> and G<sub>i</sub>, that exceeds the applicable organic HAP or VOC content limit;
  - ii. each exceedance of the pressure drop operating range established for the dry filter bank as specified in the permit;
  - iii. all times when a primer or topcoat application operation was not immediately shut down when the pressure drop across the dry particulate filter system was outside the limits specified in this permit;
  - iv. if the operations have been in compliance for the semiannual period, a statement that the operations have been in compliance with the applicable standards; and
  - v. the Permittee shall report the number of shifts of the missing records and the observations that immediately preceded and followed the missing records.
- k. The Permittee shall submit a summary report of listing the number of times the pressure drop for each dry filter was outside the limit(s) specified in the permit postmarked on or before January 30 of each calendar year for the preceding 12-month period.

**3. 15A NCAC 02D .1111: EMISSION STANDARDS FOR AEROSPACE MANUFACTURING AND REWORK FACILITIES (40 CFR 63, Subpart GG) - Non-Chemical Depainting Operations**

**40 CFR 63.746(a)**

- a. These provisions apply to the depainting of the outer surface areas of completed aerospace vehicles, including the fuselage, wings, and vertical and horizontal stabilizers of the aircraft, and the outer casing and stabilizers of missiles and rockets. These provisions do not apply to the depainting of radomes and of parts, subassemblies, and assemblies normally removed from the primary aircraft structure before depainting. However, depainting of wings and stabilizers is always subject to the requirements of this section regardless of whether their removal is considered by the Permittee to be normal practice for depainting. Aerospace vehicles or components that are intended for public display, no longer operational, and not easily capable of being moved are also exempt.

**40 CFR 63.746(b)(4)**

- b. The depainting operation that generates airborne inorganic HAP emissions from dry media blasting equipment, except mechanical and hand sanding operations, shall also comply with the following requirements:
  - i. perform the depainting operation in an enclosed area, unless a closed-cycle depainting system is used;
  - ii. pass any air stream removed from the enclosed area or closed-cycle depainting system through a dry particulate filter system, certified using the EPA reference method 319 (40 CFR 64, Appendix A) to meet or exceed the following efficiency data points for existing affected sources before exhausting it to the atmosphere;

<u>Liquid Phase</u>	
Filtration efficiency requirement	% Aerodynamic particle size range, µm
> 90 .....	> 5.7
> 50 .....	> 4.1
> 10 .....	> 2.2

<u>Solid Phase</u>	
Filtration efficiency requirement	% Aerodynamic particle size range, µm
> 90 .....	> 8.1
> 50 .....	> 5.0
> 10 .....	> 2.6

- iii. 40 CFR 63.743(b) - The Permittee shall operate the dry filter system in accordance with the manufacturer's instructions (exempt from a startup, shut down, and malfunction plan requirements); or prepare and operate in accordance with a startup, shutdown, and malfunction plan (SSMP) developed for locally prepared operating procedures.
  - (A) The SSMP shall specify the operation and maintenance criteria for the dry filter system and shall include a standardized checklist to document the operation and maintenance of the equipment.
  - (B) The SSMP shall include a systematic procedure for identifying malfunctions and for reporting them immediately to supervisory personnel.
  - (C) The SSMP shall specify procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur.

- (D) 40 CFR 63.6(e)(3)(i) - The SSMP must describe, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction, and a program of corrective action for malfunctioning process, air pollution control, and monitoring equipment used to comply with the relevant standard.
- (E) 40 CFR 63.6(e)(3)(ii) - During periods of startup, shutdown, and malfunction, the Permittee shall operate and maintain the dry media blasting equipment and dry filter control equipment in accordance with the procedures specified in the SSMP.
- (F) 40 CFR 63.6(e)(3)(v) - The Permittee must maintain at the affected source a current SSMP and must make the plan available upon request for inspection and copying by the DAQ.
- (1) If the SSMP is subsequently revised, the Permittee must maintain at the affected source each previous (i.e., superseded) version of the SSMP, and must make each such previous version available for inspection and copying by the DAQ for a period of 5 years after revision of the plan.
  - (2) If at any time after adoption of a SSMP the affected source ceases operation or is otherwise no longer subject to the provisions of this permit, the Permittee must retain a copy of the most recent plan for 5 years from the date the source ceases operation or is no longer subject to this permit and must make the plan available upon request for inspection and copying by the DAQ.
  - (3) The DAQ may at any time request in writing that the Permittee submit a copy of any SSMP (or a portion thereof) which is maintained at the affected source or in the possession of the Permittee. Upon receipt of such a request, the Permittee must promptly submit a copy of the requested plan (or a portion thereof) to the DAQ.
  - (4) The DAQ must request that the Permittee submit a particular SSMP (or a portion thereof) whenever a member of the public submits a specific and reasonable request to examine or to receive a copy of that plan or portion of a plan.
  - (5) The Permittee may elect to submit the required copy of any SSMP to the DAQ in an electronic format.
  - (6) If the Permittee claims that any portion of such a startup, shutdown, and malfunction plan is confidential business information entitled to protection from disclosure under section 114(c) of the Act or 40 CFR 2.301, the material which is claimed as confidential must be clearly designated in the submission.
- (G) 40 CFR 63.6(e)(3)(vi) - The Permittee may use the affected source's standard operating procedures (SOP) manual, or an Occupational Safety and Health Administration (OSHA) or other plan, provided the alternative plans meet all the requirements of this section and are made available for inspection or submitted when requested by the DAQ.
- (H) 40 CFR 63.6(e)(3)(vii) - The DAQ may require that the Permittee make changes to the SSMP for that source. The DAQ must require appropriate revisions to a SSMP, if the DAQ finds that the plan:
- (1) does not address a startup, shutdown, or malfunction event that has occurred;
  - (2) fails to provide for the operation of the source (including associated air pollution control and monitoring equipment) during a startup, shutdown, or malfunction event in a manner consistent with the general duty to minimize emissions established by 40 CFR 63.6(e)(1)(i);
  - (3) does not provide adequate procedures for correcting malfunctioning process and/or air pollution control and monitoring equipment as quickly as practicable; or
  - (4) includes an event that does not meet the definition of startup, shutdown, or malfunction listed in 40 CFR 63.2.
- (I) 40 CFR 63.6(e)(3)(viii) - The Permittee may periodically revise the SSMP as necessary to satisfy the requirements of this permit or to reflect changes in equipment or procedures. Unless the DAQ provides otherwise, the Permittee may make such revisions to the SSMP without prior approval. However, each such revision to a SSMP must be reported in the semiannual reports required by this permit.
- (J) 40 CFR 63.6(e)(3)(viii) - If the SSMP fails to address or inadequately addresses an event that meets the characteristics of a malfunction but was not included in the SSMP at the time the Permittee developed the plan, the Permittee must revise the SSMP within 45 days after the event to include detailed procedures for operating and maintaining the source during similar malfunction events and a program of corrective action for similar malfunctions of process or air pollution control and monitoring equipment.
- (K) 40 CFR 63.6(e)(3)(viii) - In the event that the Permittee makes any revision to the SSMP which alters the scope of the activities at the source which are deemed to be a startup, shutdown, or malfunction, or otherwise modifies the applicability of any emission limit, work practice requirement, or other requirement of this permit, the revised plan shall not take effect until after the Permittee has provided a written notice describing the revision to the DAQ.

- (L) 40 CFR 63.6(e)(3)(ix) - Any revisions made to the SSMP in accordance with the procedures by this permit shall not be deemed to constitute permit revisions under the Title V permit program. Moreover, none of the procedures specified by the SSMP for an affected source shall be deemed to fall within the permit shield provision in section 504(f) of the Act (15A NCAC 02Q .0512).
- (M) 40 CFR 64.749(b) - The affected facility shall be considered in noncompliance if the Permittee fails to submit a SSMP.

### **Monitoring and Recordkeeping**

- c. 40 CFR 63.746(b)(4)(iii), 64.751(d), 63.752(e)(7) - The dry particulate filter system on the dry media blasting equipment (ID Nos. D0053, D0097, D0182, D0183, D0184, D0205, D0221, and E0080) shall be maintained in good working order and have a differential pressure gauge installed across the filter banks.
  - i. 40 CFR The pressure drop across the filter bank shall be continuously monitored, and a value read and recorded once per shift in a log.
    - (A) 40 CFR 63.752(e)(7) - The log shall include the acceptable limits of pressure drop as specified in this permit; except as stated in any ongoing administrative amendments.
    - (B) Pursuant to the EPA accepted recordkeeping waiver [40 CFR 63.10(f)], the Permittee is allowed three days of absent pressure drop records per monitor per semi-annual reporting period.
  - ii. 40 CFR 63.746(b)(4)(v) - If the pressure drop across a cartridge filter or HEPA filter is less than the minimum or greater than the maximum pressure drops tabulated in Section 2.1 B.1.d.; except as stated in any ongoing administrative amendments, shut down the operation immediately and take corrective action. The operation shall not be resumed until the pressure drop is returned to within the specified limits.
  - iii. 40 CFR 63.6(e)(3)(iii) - When actions taken by the Permittee during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) are consistent with the procedures specified in the SSMP, the Permittee shall keep records for that event that demonstrate that the procedures specified in the plan were followed. These records may take the form of a "checklist," or other effective form of recordkeeping, that confirms conformance with the SSMP for that event.
  - iv. 40 CFR 63.10(b) - The Permittee shall keep records of:
    - (A) the occurrence and duration of each startup, shutdown, or malfunction of the dry media blasting equipment;
    - (B) the occurrence and duration of each malfunction of the dry filter bank and/or pressure drop monitoring equipment;
    - (C) all required maintenance performed on the dry filter bank and pressure drop monitoring equipment;
    - (D) when actions are different from the procedures specified in the SSMP, all actions that were taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and air pollution control equipment to its normal or usual manner of operation);
    - (E) each period during which the pressure drop monitoring equipment is malfunctioning or inoperative (including out-of-control periods);
    - (F) all results of performance tests and continuous monitor system performance evaluations;
    - (G) all measurements, as may be necessary, to determine the conditions of performance tests and performance evaluations;
    - (H) all continuous monitoring system calibration checks;
    - (I) all adjustments and maintenance performed on continuous monitor system;
    - (J) all required continuous monitoring system measurements (including monitoring data recorded during unavoidable continuous monitoring system breakdowns and out-of-control periods);
    - (K) the date and time identifying each period during which the continuous monitoring system was inoperative except for zero (low-level) and high-level checks;
    - (L) the date and time identifying each period during which the continuous monitoring system was out of control, as defined in 40 CFR 63.8(c)(7);
    - (M) the date and time of commencement and completion of each period of parameter monitoring exceedances, that occur during startups, shutdowns, and malfunctions;
    - (N) the date and time of commencement and completion of each period of parameter monitoring exceedances that occur during periods other than startups, shutdowns, and malfunctions;
    - (O) the nature and cause of any malfunction (if known);
    - (P) the corrective action taken or preventive measures adopted;
    - (Q) the nature of the repairs or adjustments to the continuous monitoring system that was inoperative or out of control;
    - (R) the total process operating time during the reporting period;
    - (S) all procedures that are part of a quality control program developed and implemented for continuous

monitoring system under 40 CFR 63.8(d).

- v. 40 CFR 63.6(e)(3)(v) - The Permittee shall keep the written SSMP on record after it is developed to be made available for inspection, upon request, by the DAQ for the life of the affected source or until the affected source is no longer subject to the provisions of this permit. In addition, if the SSMP is revised, the Permittee shall keep previous (i.e., superseded) versions of the startup, shutdown, and malfunction plan on record, to be made available for inspection, upon request, by the DAQ, for a period of 5 years after each revision to the plan.

**40 CFR 63.752(e)(4)**

- d. The Permittee shall record a listing of the parts, subassemblies, and assemblies normally removed from the aircraft before depainting for each type of aircraft depainted at the facility. [Prototype, test model or aircraft that exist in low numbers (i.e., less than 25 aircraft of any one type) are exempt from this requirement.]

**40 CFR 63.752(e)(5)**

- e. The Permittee shall record for affected dry media blasting equipment:
  - i. the names and types of non-chemical based equipment; and
  - ii. for periods of malfunction,
    - (A) the non-chemical method or technique that malfunctioned;
    - (B) the date that the malfunction occurred;
    - (C) a description of the malfunction;
    - (D) the methods used to depaint aerospace vehicles during the malfunction period;
    - (E) the dates that these methods were begun and discontinued; and
    - (F) the date that the malfunction was corrected.

**Reporting 40 CFR 63.753(d)(1)**

- f. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before November 1 of each calendar year for the preceding six-month period between March and August and May 1 of each calendar year for the preceding six-month period between September and February. The report shall submit the following information:
  - i. any 24-hour period where organic HAP were emitted from the depainting of aerospace vehicles, other than from the exempt operations listed in this permit.
  - ii. any new non-chemical depainting technique in use at the facility since the notification of compliance status or any subsequent semiannual report was filed;
  - iii. for periods of malfunctions:
    - (A) the non-chemical method or technique that malfunctioned;
    - (B) the date that the malfunction occurred;
    - (C) a description of the malfunction;
    - (D) the methods used to depaint aerospace vehicles during the malfunction period;
    - (E) the dates that these methods were begun and discontinued; and
    - (G) the date that the malfunction was corrected;
  - iv. all periods where a nonchemical depainting operation for the control of inorganic HAP emissions was not immediately shut down when the pressure drop were outside the limits specified in this permit;
  - v. a list of new and discontinued aircraft models depainted at the facility over the last 6 months and a list of the parts normally removed for depainting for each new aircraft model being depainted;
  - vi. if the depainting operation has been in compliance for the semiannual period, a statement signed by a responsible company official that the operation was in compliance with the applicable standards; and
  - vii. the Permittee shall report the number of shifts of the missing records and the observations that immediately preceded and followed the missing records.
- g. Annual reports occurring every 12 months from the date of the notification of compliance status that identify the number of times the pressure drop limit(s) for each filter system were outside the limit(s) specified in this permit.

**40 CFR 63.6(e)(3)(iii)**

- h. The Permittee shall confirm that actions taken during the relevant reporting period during periods of startup, shutdown, and malfunction were consistent with the affected source's SSMP in the semiannual startup, shutdown, and malfunction report.

**40 CFR 63.6(e)(3)(iv)**

- i. If an action taken by the Permittee during a startup, shutdown, or malfunction (including an action taken to correct a

malfunction) is not consistent with the procedures specified in the affected source's SSMP, the Permittee shall record the actions taken for that event and shall report such actions within two working days after commencing actions inconsistent with the plan, followed by a letter within seven working days after the end of the event.

**4. 15A NCAC 02D .1111: EMISSION STANDARDS FOR AEROSPACE MANUFACTURING AND REWORK FACILITIES (40 CFR 63, Subpart GG) - Chemical Depainting Operations**

**40 CFR 63.746(a)**

- a. These provisions apply to the depainting of the outer surface areas of completed aerospace vehicles, including the fuselage, wings, and vertical and horizontal stabilizers of the aircraft, and the outer casing and stabilizers of missiles and rockets. These provisions do not apply to the depainting of radomes and of parts, subassemblies, and assemblies normally removed from the primary aircraft structure before depainting. However, depainting of wings and stabilizers is always subject to the requirements of this section regardless of whether their removal is considered by the Permittee to be normal practice for depainting. Aerospace vehicles or components that are intended for public display, no longer operational, and not easily capable of being moved are also exempt.

**40 CFR 63.746(b)**

- b. An affected aerospace depainting operation shall emit no organic HAP from chemical stripping formulations and agents or chemical paint softeners except as follows.
- i. Where non-chemical based equipment is used, either in total or in part;
- (A) the Permittee shall operate and maintain the equipment according to the manufacturer's specifications or locally prepared operating procedures;
- (B) the Permittee may use substitute materials for periods of malfunctions of such equipment during the repair period provided the substitute materials used are those available that minimize organic HAP emissions and provided the substitute materials are not used for more than 15 days annually (unless such materials are organic HAP-free).
- ii. The depainting operation shall not, on an annual average basis, use more than 50 gallons of organic HAP-containing chemical strippers or alternatively 365 pounds of organic HAP per military aircraft depainted for spot stripping and decal removal as determined using the procedures specified in 40 CFR 63.750(j) for the value C.

**Monitoring and Recordkeeping 40 CFR 63.752(e)(1)**

- c. The Permittee shall record for all chemical strippers used in the depainting operation:
- i. the name of each chemical stripper; and
- ii. monthly volumes of each organic HAP containing chemical stripper used or monthly weight of organic HAP-material used for spot stripping and decal removal.
- d. 40 CFR 63.752(e)(4) - The Permittee shall record a listing of the parts, subassemblies, and assemblies normally removed from the aircraft before depainting for each type of aircraft depainted at the facility. [Prototype, test model or aircraft that exist in low numbers (i.e., less than 25 aircraft of any one type) are exempt from this requirement.]
- e. 40 CFR 63.752(e)(6) - The Permittee shall record the volume of organic HAP-containing chemical stripper or weight of organic HAP used for spot stripping and decal removal, the annual average volume of organic HAP-containing chemical stripper or weight of organic HAP used per aircraft for spot stripping and decal removal, the annual number of aircraft stripped, and all data and calculations used.

**Reporting 40 CFR 63.753(d)(1)**

- f. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before November 1 of each calendar year for the preceding six-month period between March and August and May 1 of each calendar year for the preceding six-month period between September and February. The report shall submit the following information:
- i. any 24-hour period where organic HAP were emitted from the depainting of aerospace vehicles, other than from the exempt operations listed in this permit.
- ii. any new chemical strippers used at the facility during the reporting period and the organic HAP content of these new chemical strippers;
- iii. the HAP content of each chemical stripper that undergoes reformulation;
- iv. any new non-chemical depainting technique in use at the facility since the notification of compliance status or any subsequent semiannual report was filed;
- v. a list of new and discontinued aircraft models depainted at the facility over the last 6 months and a list of the parts normally removed for depainting for each new aircraft model being depainted; and

- vi. if the depainting operation has been in compliance for the semiannual period, a statement signed by a responsible company official that the operation was in compliance with the applicable standards.
- g. Annual reports occurring every 12 months and due on November 1 for the preceding year that identify the average volume per aircraft of organic HAP-containing chemical strippers or weight of organic HAP used for spot stripping and decal removal operations if it exceeds the limits specified in this permit.

**5. 15A NCAC 02D .1111: EMISSION STANDARDS FOR AEROSPACE MANUFACTURING AND REWORK FACILITIES (40 CFR 63, Subpart GG) – Chemical Milling Maskant Application Operations**

**Standards for Chemical Milling Maskant Application Operations (40 CFR 63.747)**

- a. The Permittee shall conduct the handling and transfer of chemical milling maskants to or from containers, tanks, vats, vessels, and piping systems in such a manner that minimizes spills.
- b. The Permittee shall comply with the organic HAP and VOC content limits for each uncontrolled chemical milling maskant specified below.
  - i. Organic HAP emissions from chemical milling maskants shall be limited to an organic HAP content level of no more than 622 g/L (5.2 lb/gal) of Type I chemical milling maskant (less water), as applied.
  - ii. VOC emissions from chemical milling maskants shall be limited to a VOC content level of no more than 622 g/L (5.2 lb/gal) of Type I chemical milling maskant (less water and exempt solvents), as applied.
  - iii. Organic HAP emissions from chemical milling maskants shall be limited to an organic HAP content level of no more than 160 g/L (1.3 lb/gal) of Type II chemical milling maskant (less water) as applied.
  - iv. VOC emissions from chemical milling maskants shall be limited to a VOC content level of no more than 160 g/L (1.3 lb/gal) of Type II chemical milling maskant (less water and exempt solvents) as applied.
  - v. Organic HAP and VOC content levels do not apply to the touch-up of scratched surfaces or damaged maskant; and the touch-up of trimmed edges.
  - vi. 40 CFR 63.749(h) – Each 24 hours is considered a performance test for each of the limits above.

**Monitoring and Recordkeeping 40 CFR 63.752(f)(1)**

- c. The Permittee shall record for all uncontrolled chemical milling maskants that meet the organic HAP or VOC content limit without averaging:
  - i. the mass of organic HAP emitted per unit volume of chemical milling maskant as applied (less water) ( $H_i$ ) and the mass of VOC emitted per unit volume of chemical milling maskant as applied (less water and exempt solvents) ( $G_i$ ) for each chemical milling maskant formulation used each month (as determined by the procedures specified in 40 CFR 63.750 (k) and (m)); and
  - ii. all data, calculations, and test results (including EPA Method 24 results) used in determining the values of  $H_i$  and  $G_i$ ; and
  - iii. the volume (gal) of each chemical milling maskant formulation used each month.

**40 CFR 63.743(d)(i-iii)**

- d. Instead of complying with the individual coating limits in 40 CFR 63.747, a facility may choose to comply with the averaging provisions specified in paragraphs (d)(i) through (d)(iii) of this section.
  - i. Each owner or operator of a new or existing source shall use any combination of primers, topcoats (including self-priming topcoats), specialty coatings, Type I chemical milling maskants, or Type II chemical milling maskants such that the monthly volume-weighted average organic HAP and VOC contents of the combination of primers, topcoats, specialty coatings, Type I chemical milling maskants, or Type II chemical milling maskants, as determined in accordance with the applicable procedures set forth in 40 CFR 63.750 and complies with the specified content limits in 40 CFR 63.747(c), unless the permitting agency specifies a shorter averaging period as part of an ambient ozone control program.
  - ii. Averaging is allowed only for uncontrolled primers, topcoats (including self-priming topcoats), specialty coatings, Type I chemical milling maskants, or Type II chemical milling maskants.
  - iii. Averaging is not allowed between specialty coating types defined in appendix A to this subpart, or between the different types of coatings specified in paragraphs (d)(iii)(A) through (G) of this section.
    - (A) Primers and topcoats (including self-priming topcoats).
    - (B) Type I and Type II chemical milling maskants.
    - (C) Primers and chemical milling maskants.
    - (D) Topcoats and chemical milling maskants.
    - (E) Primers and specialty coatings.
    - (F) Topcoats and specialty coatings.



(G) Chemical milling maskants and specialty coatings.

**Reporting**

- e. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before November 1 of each calendar year for the preceding six-month period between March and August and May 1 of each calendar year for the preceding six-month period between September and February. The report shall submit the following information:
  - i. each value of H<sub>i</sub> and G<sub>i</sub> that exceeds the applicable organic HAP or VOC content limits;
  - ii. a list of all chemical milling maskants currently in use that were not listed in the notification of compliance status or any other subsequent annual report; and
  - iii. if the chemical milling maskant application operations have been in compliance for the semiannual period, a statement signed by a responsible company official that the operation was in compliance with the applicable standards.

Affected chemical milling maskant application operations shall be considered in compliance when all chemical milling maskants, meet the standards and requirements specified above.

**6. 15A NCAC 02D .1111: EMISSION STANDARDS FOR AEROSPACE MANUFACTURING AND REWORK FACILITIES (40 CFR 63, Subpart GG) - Handling And Storage Of Waste**

40 CFR 63.748 - The Permittee shall conduct the handling and transfer of the waste to or from containers, tanks, vats, vessels, and piping systems in such a manner that minimizes spills for each waste that is not subject to the Resource Conservation and Recovery Act (RCRA) and contains HAP.

**B. Toxic Air Pollutant Emission Sources**

**STATE-ONLY REQUIREMENT:**

**1. 15A NCAC 02D .1100 TOXIC AIR POLLUTANT EMISSIONS LIMITATION AND REPORTING REQUIREMENT**

Pursuant to 15A NCAC 02D .1100 and in accordance with the facility permit application for an air toxic compliance modeling demonstration approved by the Division of Air Quality per memo on March 21, 2016, the modeled non-MACT/NESHAP source by source emission limits for non-specific Chromium (VI) Compounds listed in the table below shall not be exceeded. To ensure compliance with these regulations the Permittee shall maintain records of production rates, throughput, material usage, and other process operational information as is necessary to determine compliance with the air toxic emission limits specified below for a minimum of five years from the date of recording.

**Non-specific Chromium (VI) Compounds, as Chromium (VI) Equivalent (CAS No. NSCR6)**

<b>Emission Source ID No.</b>	<b>Building</b>	<b>Emission Source Description</b>	<b>NSCR6 pounds/year</b>
ID0122	83	Welding Booth	5.13E-02
ID0123	83	Welding Booth	5.13E-02
ID0124	83	Welding Booth	5.13E-02
ID0130	83	Welding Room	5.13E-02
IA0104	4225	Welding Booth	1.65E-02
IC0011	137	Welding Booth	3.03E-02
IC0012	137	Welding Booth	3.03E-02
IC0013	137	Welding Booth	3.03E-02
IC0014	137	Welding Booth	3.03E-02
IC0015	137	Welding Booth	3.03E-02
IC0044	137	Welding Booth	3.03E-02
IC0045	137	Welding Booth	3.03E-02
IC0046	137	Welding Booth	3.03E-02

IC0047	137	Welding Booth	3.03E-02
IC0048	137	Welding Booth	3.03E-02
IC0070	137	Welding Booth	3.03E-02
ID0168	137	Grinding/Sanding Booth	1.19E-04
ID0169	137	Grinding/Sanding Booth	1.19E-04
ID0227	137	Grinding/Sanding Booth	2.38E-04
ID0125	1798	Welding Booth	4.10E-02
ID0126	1798	Welding Booth	4.10E-02
ID0228	3767	Abrasive Blasting Glovebox	2.47E-06
IP0001	4035	Welding	4.10E-02
IB0052	4224	Welding Booth	1.23E-03
ID0218	4808	Grinding/Sanding Booth	7.81E-05

**STATE ONLY REQUIREMENT**

**2. 15A NCAC 02D .1100: CONTROL OF TOXIC AIR POLLUTANTS – FACILITY WIDE EMISSION LIMITS**

- a. In accordance with the application for an air toxic compliance modeling demonstration approved by the Division of Air Quality per memo on March 21, 2016, the following facility wide modeled emission rates for TAPs above 50% AAL shall not be exceeded facility wide. The calculated emission rates below included MACT/NESHAP emission sources.

Toxic Air Pollutant	Modeled Emission Rate(s)
Maleic Anhydride 108-31-6	7.03E-02 mg/m <sup>3</sup> (hourly)
Non-specific Chromium VI Compounds (As chromium VI equivalent)	8.20E-08 mg/m <sup>3</sup> (annual)

- b. Pursuant to 15A NCAC 02D .1104: Toxic Air Pollution Guidelines and in accordance with the application for an air toxic compliance modeling demonstration approved by the Division of Air Quality per memo on March 21, 2016, for the below listed toxic air pollutants (TAPs), the Permittee has modeled and demonstrated that facility-wide actual emissions do not exceed the Acceptable Ambient Levels (AAL) listed in 15A NCAC 02D .1104. The facility shall be operated and maintained in such a manner that emissions of any listed toxic air pollutant(s) from the facility, including fugitive emissions, will not exceed the AAL limit.
- i. A permit to emit any of the below listed TAPs shall be required for this facility if actual emissions from all sources will become greater than the corresponding AAL.
  - ii. In accordance with the approved application, the Permittee shall maintain records of operational information demonstrating that the toxic air pollutant emissions do not exceed the AAL as listed below:

POLLUTANT	Carcinogens (lb/yr)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
Nickel Metal (7440-02-0)		6.0 E-03 mg/m <sup>3</sup>		
Nickel, Soluble Compounds, as Nickel		6.0 E-04 mg/m <sup>3</sup>		

**Reporting of Facility-wide and Source Specific Modeled Toxic Air Pollutants**

- c. To ensure compliance with the acceptable ambient model levels, the Permittee shall calculate hourly, daily and/or annual emissions, as required by the applicable averaging period, for each TAP listed in Section 2.2 B and compare the calculated emission with the modeled emissions listed in Sections 2.2 B.1, 2.2 B.2.a., 2.2 B.2.b. The Permittee shall submit a report due by July 30 of each emission rate listed in Section 2.2 B. that was exceeded in the preceding year. The report shall include:

- i. a demonstration (ambient dispersion modeling or otherwise) that either shows that the toxic air pollutant ambient impact resulting from an emission limit exceedance did not or could not exceed the acceptable ambient level, or that the acceptable ambient level was exceeded;
- ii. if the Permittee determines that an acceptable ambient level of a toxic air pollutant was (or is being) exceeded, the Permittee shall include an abatement plan for that toxic air pollutant;
- iii. if no exceedances occurred, the Permittee shall state that there were no exceedances of the toxic air pollutant emission limits in the report.

**Toxic Air Pollutant Emission Limitations and Reporting Requirements for Scrubbers**

- d. Toxic emissions shall be controlled by:
  - i. Vertical packed-bed tower wet scrubber (ID No. CR1),
  - ii. Vertical packed-bed tower wet scrubber (ID No. OH1),
  - iii. Vertical packed-bed tower wet scrubber (ID No. AOH1),
  - iv. Vertical packed-bed tower wet scrubber (ID No. AOH2),
  - v. Vertical packed-bed tower wet scrubber (ID No. AOH3),
  - vi. Vertical packed-bed tower wet scrubber (ID No. AOH4),
  - vii. Venturi air scrubber (ID No. CD-E0207A), and
  - viii. Venturi air scrubber (ID No. CD-E0089)

**Monitoring Requirements for Scrubbers**

- e. To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the control device manufacturer. In addition to the manufacturer’s inspection and maintenance recommendations, or if there is no manufacturer’s inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include:
  - i. annual inspection of scrubber spray nozzles to detect clogging or corrosion damage of nozzles and perform maintenance and repair when necessary to ensure proper operation of the scrubber;
  - ii. annual inspection of scrubber packing material to ensure proper packing depth and to check for clogging;
  - iii. semiannual inspection, cleaning, and calibration of all associated instrumentation.
- f. To ensure compliance, each week, the Permittee shall observe the pressure drop readings across the scrubbers. The Permittee shall record the reading in a logbook (written or electronic) for the pressure drop across each scrubber system in inches of water ( $\Delta P$  wg) which shall not be less than the minimum or greater than the maximum pressure drops tabulated below; except as stated in any ongoing administrative amendments.

Scrubber	Minimum ( $\Delta P$ wg)	Maximum ( $\Delta P$ wg)
CR1	0.4	2.7
OH1	0.75	3.75
AOH1	0.4	2.0
AOH2	0.4	2.7
AOH3	0.4	3.5
AOH4	0.4	2.7
CD-E0207A	TBD	TBD
CD-E0089	TBD	TBD

The Permittee shall be deemed in noncompliance if the pressure drop is not recorded and maintained within the prescribed limits.

**Recordkeeping for Scrubbers**

- g. 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 pressure drop, recorded weekly;
  - iii. the results of each inspection;
  - iv. the results of any maintenance performed on the scrubber systems; and

- v. any variance from manufacturer’s recommendations, if any, and corrections made.

**Reporting for Scrubbers**

- h. Within 30 days of a request from the DAQ, the Permittee shall submit a report of any maintenance performed on scrubbers.
- i. 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.

**Toxic Air Pollutant (Nickel Metal) Emission Limitations and Reporting Requirements for Cartridge Filters, HEPA Filters, and/or Cyclone**

- j. Toxic air pollutants from the HVOF thermal spray booth (ID No. A0009) in Building 133 shall be controlled with a cartridge filter (ID No. CD-A0009) venting to a HEPA filter (ID No. CD-A0012).
- k. Toxic air pollutants from the two HVOF thermal spray booths (ID No. A0010 and A0011) in Building 133 shall be controlled with a cartridge filter (ID No. CD-A0010) venting to a HEPA filter (ID No. CD-A0012).
- l. Toxic air pollutants from the HVOF thermal spray booth (ID No. E0165) in Building 4225 shall be controlled with a cartridge filter (ID No. CD-E0165) venting to a HEPA filter.
- m. Toxic air pollutants from the HVOF thermal spray booth’s surface pretreatment process (ID No. E0207) in Building 4225 shall be controlled with cyclone (CD-E0207B).

**Monitoring Requirements for Cartridge, HEPA filters, and/or Cyclone**

- n. To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the control device manufacturer. In addition to the manufacturer’s inspection and maintenance recommendations, or if there is no manufacturer’s inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include:
  - i. annual inspection of duct work and housing components for structural integrity;
  - ii. semiannual inspection, cleaning, and calibration of all associated instrumentation.
- o. To ensure compliance, each week, the Permittee shall observe the pressure drop readings across the control devices (ID Nos. CD-A0009, CD-A0010, CD-A0012, CD-E0165, and CD-E0207B) for HVOF metal spray booths (ID Nos. A0009, A0010/0011, E0165, and E0207), respectively. The Permittee shall record the reading in a logbook (written or electronic) for the pressure drop across each cartridge filter, HEPA, and/or cyclone filter in each system in inches of water ( $\Delta P$  wg) which shall not be less than the minimum or greater than the maximum pressure drops tabulated below; except as stated in any ongoing administrative amendments.

Cartridge Filter, HEPA Filter, and/or Cyclone	Minimum ( $\Delta P$ wg)	Maximum ( $\Delta P$ wg)
cartridge filter CD-A0009	0.10	6.0
cartridge filter CD-A0010	0.10	6.0
HEPA filter CD-A0012	0.05	5.0
cartridge filter CD-E0165	0.35	6.0
HEPA filter CD-E0165	1.0	6.0
cyclones CD-E0207A	TBD	TBD

The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if the pressure drop across any filter operates outside of these parameters. New control devices CD-E0207A and CD-E0207B will be installed in the near term therefore the pressure drop will be determined at a later date.

**Recordkeeping for Cartridge, HEPA filters, and/or Cyclone**

- q. 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 pressure drop, recorded weekly;
  - iii. the results of each inspection;

- iv. the results of any maintenance performed on the control device systems; and
- v. any variance from manufacturer's recommendations, if any, and corrections made.

**Reporting for Cartridge, HEPA filters, and/or Cyclone**

- r. Within 30 days of a request from the DAQ, the Permittee shall submit a report of any maintenance performed on the control device.
- s. 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.

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

<b>Emission Source ID No.</b>	<b>Building No.</b>	<b>Emission Source Description<sup>1,2</sup></b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
ID0159	TBD	Distillate/distillate equivalent fuel-fired turbine engine APU test cell	NA	NA
IE0222, IE0223	4225	two 3D printers	NA	NA
IE0224	4841	3D printer	NA	NA
ID0228	3767	Abrasive Blasting (glovebox)	CD-D0228	dust collector with dry particulate and HEPA filter
ID0199	4037	Adhesive Coating Booth	NA	NA
IB0063, IB0064	4224	Bonding & Curing (autoclaves), distillate/distillate equivalent fuel-fired (~15 feet in diameter)	NA	NA
IA0139 <b>MACT GG</b>	4032	Chemical Stripping (paint stripping tank)	NA	NA
IC0058	137	Desoldering (station)	NA	NA
<b>Generators (emergency) [MACT ZZZZ]</b>				
IC0105	83	diesel-fired (102 hp)	NA	NA
IC0099	137	diesel-fired (99 hp)	NA	NA
IC0100	137	diesel-fired (490 hp)	NA	NA
IC0107 <b>NSPS III</b>	137	60 kilowatt generator powered by a 94 horsepower, diesel-fueled fired internal combustion engine	NA	NA
IC0141	488	diesel-fired (99 hp)	NA	NA
IC0102	1006	diesel-fired (115 hp)	NA	NA
IC0104	4032	diesel-fired (117 hp)	NA	NA
IC0103	4224	diesel-fired (354 hp)	NA	NA
IE0188	4225	diesel-fired (99 hp)	NA	NA
<b>Grinding &amp; Sanding</b>				
ID0037, ID0038, ID0041	137	grinding booth	NA	NA
ID0168, ID0169	137	grinding/sanding booths	CD-D0168 and CD-D0169	each with a dry particulate filter with HEPA filter
ID0227	137	grinding/sanding booth	CD-D0227	dry particulate filter with HEPA filter
IB0137, IB0138	4173	blending station	CD-B0137	dry particulate filter with HEPA filter
IB0139, IB0140	4173	blending station	CD-B0139	common cyclone
IB0141, IB0142	4173	blending station	CD-B0141	dry particulate filter with HEPA filter
IE0190, IE0191, IE0192, IE0193	4225	blending station	CD-E0190	common cyclone
IE0194, IE0195, IE0196, IE0197	4225	blending station	CD-E0194	dry particulate filter with HEPA filter
IE0198, IE0199, IE0200, IE0201	4225	blending station	CD-E0198	particulate filter with HEPA filter
ID0218	4808	grinding/sanding booth	CD-D0218	dry particulate filter with HEPA filter
<b>Heater (exchanger, process) [*Case by Case MACT, MACT DDDDD]</b>				
IH0005	4032	0.15 million BTU/hr, propane-fired	NA	NA
<b>Heater (process) direct contact</b>				

<b>Emission Source ID No.</b>	<b>Building No.</b>	<b>Emission Source Description<sup>1,2</sup></b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
IH0001, IH0002	1798	both are rated at 4.1 million BTU/hr each, propane-fired	NA	NA
IH0003	1798	0.75 million BTU/hr, propane-fired	NA	NA
IA0075	3402	6.2 million BTU/hr, propane-fired	NA	NA
IH0004	4032	3.3 million BTU/hr, propane-fired	NA	NA
<b>Lab Process</b>				
IA0049, IA0117	4032	cutting, grinding station	NA	NA
IA0175	4032	paint booth	CD-A0175	dry particulate filter system
<b>Metal Coating</b>				
IE0090, IE0091, IE0187	4225	electrophoretic coating process	NA	NA
<b>Metal Working</b>				
IC0034, IC0035, IC0036, IC0142	137	quench tanks	NA	NA
IC0042	137	foundry melting pot	NA	NA
<b>Non-Destructive Inspection</b>				
IA0130, IE0001, IE0086	133	NDI Line-penetrant tank	NA	NA
ID0042	137	NDI Line penetrant tank	NA	NA
IA0138	4032	NDI Line penetrant tank	NA	NA
IE0083	4225	NDI Line penetrant tank	NA	NA
<b>Ovens &amp; Furnaces (propane quench) [*Case by Case MACT and MACT DDDDD]</b>				
IC0017	137	0.2 million Btu/hr, propane-fired	NA	NA
<b>Depainting [MACT GG]</b>				
ID0073	Portable	laser depainting system	NA	NA
ID0203	Portable	laser depainting system	NA	NA
<b>Paint Spray Gun Cleaning (enclosed machine) [MACT GG]</b>				
IC0086	133	paint spray gun cleaning machine	NA	NA
IC0082, IC0083	137	paint spray gun cleaning machine	NA	NA
IC0084, IC0085, IC0120	245	paint spray gun cleaning machine	NA	NA
IC0119	1798	paint spray gun cleaning machine	NA	NA
IC0121	4032	paint spray gun cleaning machine	NA	NA
<b>Parts Washing (aqueous) [MACT GG]</b>				
IA0141, IB0123, IE0012	133	parts washer	NA	NA
IC0071, ID0028, ID0078	137	parts washer	NA	NA
IA0135, IC0088	4032	parts washer	NA	NA
IP0014	4035	parts washer	NA	NA
<b>Process Tanks (open top) various [MACT GG]</b>				
<b>(Due to the large number of process tanks, current material usage may change with any individual tank ID. Updates can be addressed when needed or at the next permit renewal.)</b>				

<b>Emission Source ID No.</b>	<b>Building No.</b>	<b>Emission Source Description<sup>1,2</sup></b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
IB0033, IB0066, IB0067, IB0068, IB0069, IB0070, IB0071, IB0072, IB0073, IB0074, IB0075, IB0076, IB0078, IB0079, IB0080, IB0081	133	bearing shop tank line	NA	NA
IE0013, IE0014, IE0015, IE0016, IE0017, IE0018, IE0019, IE0020, IE0021, IE0022, IE0172	133	clean shop tank line	NA	NA
IA0022, IA0023, IA0026, IA0027, IA0028, IA0029	133	paint shop tank line	NA	NA
IA0190, ID0023, ID0024, ID0029, ID0030, ID0076, ID0077	137	clean shop tank line	NA	NA
IT0001, IT0009, IT0026, IT0031, IT0032, IT0033, IT0041	4035	process tank type I anodize, type II/III anodize, and cadmium plating lines	AOH1	vertical pack bed tower scrubber (56 gallons per minute minimum water injection rate)
IT0053, IT0059, IT0062, IT0063, IT0068, IT0070, IT0072, IT0078	4035	Phosphate, cleaning and rinsing, cadmium plating, and silver plating lines	AOH2	vertical pack bed tower scrubber
IT0107, IT0108, IT0117, IT0124	4035	chrome and nickel plating lines	AOH3	vertical spray tower scrubber
IT0151, IT0153, IT0157, IT0158, IT0168A, IT0178, IT0181, IT0192, IT0195	4035	general cleaning and rinsing, chrome plating, chemical milling, alkaline EN preplate, zinc nickel plating, and hard sulfamate nickel plating process lines	AOH4	vertical pack bed tower scrubber
IT0003, IT0005, IT0006, IT0052, IT0162, IT0163	4035	type I anodize, cadmium plating, passivate lines	CR1	vertical packed bed scrubber
IT0049, IT0051, IT0079, IT0085, IT0086, IT0090, IT0201	4035	cadmium and silver plating, and nickel strip lines	OH1	vertical pack bed tower scrubber
IT0008	4035	type I anodize line to exhaust NEF01	NA	NA
IT0036, IT0037, IT0039	4035	type II/III anodize lines to exhaust NEF03	NA	NA
IT0040, IT0042	4035	phosphate and cadmium lines to exhaust NEF04	NA	NA
IT0077, IT0081	4035	silver plating line to exhaust NEF05	NA	NA
IT0211	4035	wax remover tank to exhaust NEF06	NA	NA



<b>Emission Source ID No.</b>	<b>Building No.</b>	<b>Emission Source Description<sup>1,2</sup></b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
IT0132, IT0212, IT0213, IT0217	4035	general cleaning and rinsing, chrome plating, and nickel plating lines to exhaust NEF08	NA	NA
IT0146	4035	general process tank to exhaust NEF09	NA	NA
IT0134, IT0135, IT0139, IT0141, IT0147	4035	anode cleaning, chrome plating, general process tanks, and tin plating lines to exhaust NEF10	NA	NA
IT0160, IT0164, IT0166, IT0169, IT0170, IT0173, IT0176	4035	passivate, chrome plating, and alkaline EN preplate lines to exhaust NEF11	NA	NA
IT0189, IT0191, IT0204, IT0205, IT0207, IT0208	4035	tin zinc plating, hard sulfamate nickel plating, general process tank, and electroless nickel lines to exhaust NEF12	NA	NA
IT0002, IT0004, IT0007, IT0010, IT0011, IT0012, IT0027, IT0028, IT0029, IT0030, IT0034, IT0035, IT0038	4035	type I anodize, type II/III anodize lines (fugitive)	NA	NA
IT0043, IT0044, IT0045, IT0046, IT0047, IT0048, IT0050, IT0054, IT0056, IT0057	4035	cadmium plating lines (fugitive)	NA	NA
IT0060, IT0061, IT0064, IT0065, IT0220	4035	general cleaning and rinsing lines (fugitive)	NA	NA
IT0066, IT0067, IT0069, IT0071, IT0073, IT0075, IT0076, IT0080, IT0082, IT0083, IT0084, IT0091	4035	silver plating lines (fugitive)	NA	NA
IT0087	4035	nickel strip tank (fugitive)	NA	NA
IT0095, IT0096, IT0097, IT0098, IT0101, IT0102, IT0103, IT0104, IT0116, IT0119, IT0120, IT0121, IT0123, IT0219	4035	chrome plating lines (fugitive)	NA	NA
IT0125, IT0126, IT0128, IT0129, IT0130	4035	nickel plating lines (fugitive)	NA	NA
IT0133	4035	anode cleaning line (fugitive)	NA	NA

<b>Emission Source ID No.</b>	<b>Building No.</b>	<b>Emission Source Description<sup>1,2</sup></b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
IT0058, IT0136, IT0137, IT0138, IT0140, IT0142, IT0143, IT0144, IT0145, IT0148, IT0149, IT0177, IT0198, IT0199, IT0200, IT0202	4035	general process tanks (fugitive)	NA	NA
IT0152, IT0154, IT0156, IT0159	4035	chemical milling lines (fugitive)	NA	NA
IT0161, IT0165, IT0167, IT0196, IT0197	4035	passivate, acid etch lines (fugitive)	NA	NA
IT0168B, IT0171, IT0172, IT0174, IT0175	4035	alkaline EN preplate lines (fugitive)	NA	NA
IT0179, IT0180, IT0182, IT0183, IT0185, IT0186, IT0190, IT0193, IT0194	4035	zinc nickel plating and tin zinc plating lines (fugitive)	NA	NA
IT0209, IT0210	4035	electroless nickel line (fugitive)	NA	NA
IE0096, IE0098, IE0099, IE0101, IE0103, IE0105, IE0107, IE0108, IE0118, IE0120, IE0121, IE0131, IE0133, IE0134, IE0141, IE0142, IE0145, IE0147	4225	aluminide, superalloy, titanium, HVOF coating and silver braze cleaning and stripping lines	C1	horizontal packed bed caustic scrubber with mist eliminator pad
IE0109, IE0110, IE0112, IE0114, IE0115, IE0117, IE0122, IE0125, IE0127, IE0129, IE0135, IE0137, IE0139, IE0140, IE0144	4225	superalloy, titanium, sermetal, HVOF coating and silver braze cleaning and stripping lines	C2	horizontal demister scrubber utilizing water solvent cleaning
IE0097, IE0100, IE0102, IE0104, IE0106, IE0111, IE0113, IE0116, IE0119, IE0123, IE0124, IE0126, IE0128, IE0130, IE0132, IE0136, IE0138, IE0143, IE0146	4225	aluminide, superalloy, titanium, sermetal, HVOF coating and silver braze cleaning and stripping lines	NA	NA
<b>Pump (backup water) [MACT ZZZZ]</b>				
IE0073	4225	propane-fired (15 horsepower)	NA	NA

Emission Source ID No.	Building No.	Emission Source Description <sup>1,2</sup>	Control Device ID No.	Control Device Description
<b>Soldering</b>				
IC0054, IC0055, IC0079, ID0175	137	soldering booths	NA	NA
<b>Solvent Cleaning-[MACT GG]</b>				
IA0197, IE0006, IE0011, IE0081, IE0095	133	vapor degreasers, open top chemical tanks, spray booth, and steam cleaning shelter	NA	NA
IA0134	133	ultrasonic vapor degreaser	NA	NA
IC0002, IC0004, IC0006, IC0050, ID0021, ID0039	137	spray booth	NA	NA
ID0054	1798	steam cleaning operation	NA	NA
IA0125	4032	spray booth	NA	NA
IP0013	4035	vapor degreaser	NA	NA
IA0118	4173	steam cleaning	NA	NA
IE0179	4225	vapor degreaser	NA	NA
<b>Storage Tanks (fuel)</b>				
IB0085	133	JP-5 storage tank (10,000 gallons)	NA	NA
IC0074	137	JP-5 storage tank (10,000 gallons)	NA	NA
IC0075		JP-5 storage tank (10,000 gallons)		
ID0189	1006	diesel storage tank<= 1,000 gallons	NA	NA
IA0153	4032	diesel storage tank<= 1,000 gallons	NA	NA
IA0076 [NSPS Kb]	4188	horizontal fixed-roof jet fuel storage tank (25,000 gallon)	NA	NA
<b>Welding</b>				
ID0122, ID0123, ID0124, ID0130	83	welding booths	NA	NA
IA0104	4225	welding booth	NA	NA
IC0011, IC0012, IC0013, IC0014, IC0015, IC0044, IC0045, IC0046, IC0047, IC0048, IC0070	137	welding booths	NA	NA
ID0125, ID0126	1798	welding booths	NA	NA
IP0001	4035	welding booth	NA	NA
IB0052	4224	welding booth	NA	NA
IA0132, IA0133	4225	welding booths	NA	NA

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

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

## SECTION 4 - GENERAL CONDITIONS (version 6.0, 01/07/2022)

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

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

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

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

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

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

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

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

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

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

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

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

The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition except conditions identified as state-only requirements constitutes a violation of the Federal Clean Air Act. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

F. **Circumvention** - STATE ENFORCEABLE ONLY

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

G. **Title V Permit Modifications**

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

H. **Changes Not Requiring Permit Modifications**

1. Reporting Requirements [15A NCAC 02Q .0508(f)]  
Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:
  - a. changes in the information submitted in the application;
  - b. changes that modify equipment or processes; or
  - c. changes in the quantity or quality of materials processed.  
If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.
2. Section 502(b)(10) Changes [15A NCAC 02Q .0523(a)]
  - a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
  - b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
    - i. the changes are not a modification under Title I of the Federal Clean Air Act;
    - ii. the changes do not cause the allowable emissions under the permit to be exceeded;
    - iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
    - iv. the Permittee shall attach the notice to the relevant permit.
  - c. The written notification shall include:
    - i. a description of the change;
    - ii. the date on which the change will occur;
    - iii. any change in emissions; and
    - iv. any permit term or condition that is no longer applicable as a result of the change.
  - d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
3. Off Permit Changes [15A NCAC 02Q .0523(b)]  
The Permittee may make changes in the operation or emissions without revising the permit if:
  - a. the change affects only insignificant activities and the activities remain insignificant after the change; or
  - b. the change is not covered under any applicable requirement.
4. Emissions Trading [15A NCAC 02Q .0523(c)]  
To the extent that emissions trading is allowed under 15A NCAC 02D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 02Q .0523(c).

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

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

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

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

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

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

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

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

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

1. An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.
3. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that include information as follows:
  - a. an emergency occurred and the Permittee can identify the cause(s) of the emergency;
  - b. the permitted facility was at the time being properly operated;

- c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
- d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

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

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

L. **Need to Halt or Reduce Activity Not a Defense** [15A NCAC 02Q .0508(i)(4)]

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

M. **Duty to Provide Information (submittal of information)** [15A NCAC 02Q .0508(i)(9)]

1. The Permittee shall furnish to the DAQ, in a timely manner, any reasonable information that the Director may request in **writing** to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.
2. The Permittee shall furnish the DAQ copies of records required to be kept by the permit when such copies are requested by the Director. For information claimed to be confidential, the Permittee may furnish such records directly to the EPA upon request along with a claim of confidentiality.

N. **Duty to Supplement** [15A NCAC 02Q .0507(f)]

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the DAQ. The Permittee shall also provide additional information as necessary to address any requirement that becomes applicable to the facility after the date a complete permit application was submitted but prior to the release of the draft permit.

O. **Retention of Records** [15A NCAC 02Q .0508(f) and 02Q .0508(l)]

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

P. **Compliance Certification** [15A NCAC 02Q .0508(n)]

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

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

4. the method(s) used for determining the compliance status of the source during the certification period;
5. each deviation and take it into account in the compliance certification
6. as possible exceptions to compliance, any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 (CAM) occurred.

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

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

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

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

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

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

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

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

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

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

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

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

1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
  - a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
  - b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
  - c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
  - d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.Nothing in this condition shall limit the ability of the EPA to inspect or enter the premises of the Permittee under Section 114 or other provisions of the Federal Clean Air Act.



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

EE. **National Emission Standards Asbestos – 40 CFR Part 61, Subpart M** [15A NCAC 02D .1110]

The Permittee shall comply with all applicable standards for demolition and renovation activities pursuant to the requirements of 40 CFR Part 61, Subpart M. The permittee shall not be required to obtain a modification of this permit in order to perform the referenced activities.

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

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

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

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

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

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

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

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

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

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

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

Any test conducted by the Division of Air Quality using the appropriate testing procedures described in 15A NCAC 02D .2600 has precedence over all other tests.

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

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

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

The Permittee shall maintain a record of operation for permitted equipment noting whenever the equipment is taken from and placed into operation. When permitted equipment is not in operation, the requirements for testing, monitoring, and recordkeeping are suspended until operation resumes.

**MM. Fugitive Dust Control Requirement [15A NCAC 02D .0540]**

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

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

**NN. Specific Permit Modifications [15A NCAC 02Q .0501 and .0523]**

1. For modifications made pursuant to 15A NCAC 02Q .0501(b)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.
2. For modifications made pursuant to 15A NCAC 02Q .0501(c)(2), the Permittee shall not begin operation of the air emission source(s) and associated air pollution control device(s) until a Title V Air Quality Permit Application is filed and a construction and operation permit following the procedures of Section .0500 (except for Rule .0504 of this Section) is obtained.
3. For modifications made pursuant to 502(b)(10), in accordance with 15A NCAC 02Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (Air Permitting Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303 or through the EPA Compliance and Emissions Data Reporting Interface (CEDRI), ) in writing at least seven days before the change is made.
  - a. The written notification shall include:
    - i. a description of the change at the facility;
    - ii. the date on which the change will occur;
    - iii. any change in emissions; and

- iv. any permit term or condition that is no longer applicable as a result of the change.
- b. In addition to this notification requirement, with the next significant modification or Air Quality Permit renewal, the Permittee shall submit a page "E5" of the application forms signed by the responsible official verifying that the application for the 502(b)(10) change/modification, is true, accurate, and complete. Further note that modifications made pursuant to 502(b)(10) do not relieve the Permittee from satisfying preconstruction requirements.

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

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