

X DRAFT
PROPOSED
FINAL



AIR QUALITY TITLE V PERMIT

Permit No.	Effective Date	Expiration Date	Modification Date(s)	Replaces Permit No(s)
19-01V-132	DATE	(For Title V renewals = 5 years from date of issue)		15-02V-132

In accordance with the provisions of the Mecklenburg County Air Pollution Control Ordinance, and by the authority granted under the North Carolina General Statute (NCGS) Chapter 143, Article 21B, and until such time as this permit expires or is modified or revoked, the Permittee is hereby authorized to construct/operate emission sources and control devices as outlined in Parts 1 and 2 of this permit. The purpose of this permit is to assure compliance with the requirements of Title V of the Clean Air Act (CAA) and 40 CFR Part 70.

Permittee Name: Metrolina Greenhouses, Inc.

Site Name (if different):

Permitted Facility Location: 16400 Huntersville-Concord Road

City, State, Zip: Huntersville, NC 28078

Facility Mailing Address: 16400 Huntersville-Concord Road

City, State, Zip: Huntersville, NC 28078

Primary SIC Code: 0181

Renewal Application Due: (should be 1 yr prior to permit expiration)

Program Manager, Air Quality Program

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PART 1

Facility Conditions and Limitations

PART 1

Facility Conditions and Limitations

The entire facility is subject to the conditions and limitations contained in Part 1 (below). The facility shall comply with all applicable Air Quality rules and regulations whether or not these regulations are specifically identified in the permit.

A. LOCAL AND FEDERAL REQUIREMENTS

Mecklenburg County Air Quality (MCAQ) and the United States Environmental Protection Agency (EPA) have the authority to enforce the terms, conditions, and limitations contained in this section.

ADMINISTRATIVE PROVISIONS

A-1. Applicability

The facility shall be operated in accordance with the Mecklenburg County Air Pollution Control Ordinance (MCAPCO) **Regulations 1.5211 - “Applicability”** and **1.5502 - “Applicability”**. An owner or operator shall have received a permit from the Department and shall comply with the conditions of such permit before constructing, modifying or operating any air pollution source or entering into a contract to construct or install any air cleaning device. This permit does not relieve the facility from the responsibility of acquiring any other permits that may be required.

A-2. Permit Application

In accordance with **MCAPCO Regulation 1.5508 - “Permit Content” Subparagraph (i)(16)**, the construction and operation of emission sources and control devices listed in this permit shall be in accordance with all plans, specifications, operating parameters, and other information submitted and which is the basis for the issuance of this permit. The facility shall comply with all applicable Air Quality rules and regulations whether or not these rules and regulations are included as part of the permit.

Applications shall be submitted in accordance with **MCAPCO Regulations 1.5212 - “Applications”, 1.5505 - “Application Submittal Content”, and 1.5507 - “Applications”** and shall be accompanied by the appropriate fee as listed in **MCAPCO Regulation 1.5231 - “Air Quality Fees”**. The owner or operator of a new or modified facility may choose to obtain a construction and operation permit pursuant to **MCAPCO Regulation 1.5504 - “Option for Obtaining Construction and Operation Permit”**.

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. The Permittee shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

A-3. General Duties and Powers of the Director

In accordance with **MCAPCO Regulation 1.5104 - “General Duties and Powers of the Director, with Approval of the Board”**, the Director or his authorized representative may request performance testing of any emission source to ensure compliance.

A-4. Confidential Information

In accordance with **MCAPCO Regulation 1.5217 - “Confidential Information”**, the Permittee may request that submitted information be treated as confidential. The Permittee must make this request at the time of submittal and include both confidential and public copies of the information for MCAQ files.

A-5. Retention of Permit

In accordance with **MCAPCO Regulation 1.5219 - “Retention of Permit at Permitted Facility”**, a copy of this permit shall be retained at the facility.

A-6. Property Rights

In accordance with **MCAPCO Regulation 1.5508 - “Permit Content” Subparagraph (i)(8)**, this permit does not convey property rights of any sort, or any exclusive privileges.

A-7. Annual Fee Payment

In accordance with **MCAPCO Regulation 1.5508 - “Permit Content” Subparagraph (i)(10)**, the Permittee shall pay fees required by **MCAPCO Regulation 1.5231 - “Air Quality Fees”**.

A-8. Inspection and Entry

In accordance with **MCAPCO Regulation 1.5508 - “Permit Content” Paragraph (l)**, the Permittee shall allow authorized representatives of MCAQ and the EPA to:

- a. enter the Permittee’s premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept by the conditions of the permit;
- b. have access to and copy any records that are required to be kept by the conditions of the permit;
- c. inspect any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required by the permit; and
- d. sample or monitor substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

PERMIT CHANGES

A-9. Changes Not Requiring a Permit Modification

a. Section 502(b)(10) Changes:

Changes allowed under Section 502(b)(10) of the federal Clean Air Act are changes that contravene an express permit term. 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. In accordance with **MCAPCO Regulation 1.5523 - “Changes Not Requiring Permit Revisions”** Paragraph (a), the Permittee may make changes without having this permit revised if:

1. the changes are not a modification as defined pursuant to **MCAPCO Article 2.0000** or Title I of the federal Clean Air Act;
2. the changes do not cause the allowable emissions in the permit to be exceeded;
3. the Permittee notifies the Director and EPA in writing as described in **MCAPCO Regulation 1.5523- “Changes Not Requiring Permit Revisions”** Subparagraph (a)(2) at least seven days before the change is made; and,
4. the Permittee shall attach the notice to the relevant permit.

b. Off-Permit Changes:

In accordance with **MCAPCO Regulation 1.5523 - “Changes Not Requiring Permit Revisions”** Paragraph (b), the Permittee may make changes in his operation or emissions without revising the permit if:

1. the change affects only insignificant activities and the activities remain insignificant after the change,
2. the change is not covered by any applicable requirement, and,
3. the change would not render existing permit compliance terms and conditions irrelevant.

c. Emissions Trading:

To the extent that emissions trading is allowed pursuant to **MCAPCO Article 2.0000**, emissions trading shall be allowed without permit revisions provided that:

1. all applicable requirements are met,
2. the Permittee complies with all terms and conditions of the permit in making the emissions trade, and,
3. the Permittee notifies the Director and EPA with written notification as described in **MCAPCO Regulation 1.5523 - “Changes Not Requiring Permit Revisions”** Subparagraph (c)(3) at least seven days before making the emissions trade.

A-10. Permit Modifications and Administrative Amendments

a. Administrative Permit Amendments shall be made in accordance with **MCAPCO Regulation 1.5514 - “Administrative Permit Amendments”**.

b. Transfer of Ownership or Operation:

Transfer of ownership or operations shall be made in accordance with **MCAPCO Regulation 1.5524 - “Ownership Change”** which states that applications for ownership change shall contain information as required in **MCAPCO Regulation 1.5505 - “Application Submittal Content” Paragraph (4)** and shall follow the procedures described in **MCAPCO Regulation 1.5212 - “Applications” Paragraph (e)**.

- c. Minor Permit Modifications shall be made in accordance with **MCAPCO Regulation 1.5515 - “Minor Permit Modifications”**.
- d. Significant Permit Modifications shall be made in accordance with **MCAPCO Regulation 1.5516 - “Significant Permit Modification”**.

A-11. Reopening for Cause

In accordance with **MCAPCO Regulation 1.5517 - “Reopening for Cause”, Paragraph (a)**, a permit shall be reopened and revised under the following circumstances:

- a. additional requirements become applicable to a facility with a remaining permit term of three or more years. Such a reopening shall be completed no later than 18 months after promulgation of the applicable requirement, and no such reopening is required if the effective date of requirement is later than the expiration date of this permit;
- b. MCAQ 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
- c. MCAQ or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

A-12. Termination, Modification, Revocation of Permits

A permit may be terminated, revoked, or modified as outlined in **MCAPCO Regulations 1.5232 - “Issuance, Revocation, and Enforcement of Permits”, 1.5231 - “Air Quality Fees”, and/or 1.5519 - “Termination, Modification, Revocation of Permits”**.

In accordance with the above-referenced regulations, MCAQ may terminate, modify, or revoke and reissue a permit if:

- a. the information contained in the application or presented in support thereof is determined to be incorrect;
- b. the regulations or conditions under which the permit or permit renewal was granted have changed;
- c. permit conditions have been violated;
- d. construction of the permitted equipment does not commence within 18 months of permit issuance or, once construction has begun, it ceases prior to completion for a period of 18 consecutive months;
- e. operation of a permitted facility or process ceases permitted activities for a period of 18 consecutive months;
- f. the permit holder fails to pay fees required within 30 days after being billed;
- g. the Permittee refuses to allow the Director or authorized representative to enter the premises where a source of emissions is located, have access to records required to be kept by the terms and conditions of the permit, inspect any source of emissions, control equipment, and monitoring equipment or methods required in the permit, or collect samples from any emission source; or,
- h. the EPA requests that the permit be revoked pursuant to **40 CFR Part 70.7 (g) or 70.8(d)**.

A-13. Permit Renewal and Expiration

In accordance with **MCAPCO Regulation 1.5513 - “Permit Renewal and Expiration”**, permit expiration shall terminate the facility’s right to operate unless a complete renewal application has been submitted at least six months before the date of permit expiration. To ensure the application is timely and complete, the *renewal application shall be submitted one year prior to the permit expiration date*. The renewal application should include the complete application forms for all permitted equipment and any

modifications. Permits being renewed are subject to the procedural requirements of **MCAPCO Section 1.5500 - “Title V Procedures”**, including those for public participation and affected States and EPA review. Upon receipt of a timely and complete application for renewal, the Permittee may continue to operate under the conditions of this permit, subject to final action by MCAQ on the renewal application. If a complete renewal application is not received as required, the permit will expire at the end of its term.

NOTIFICATIONS AND REPORTS

A-14. Commencement of Operation

The facility shall be operated in accordance with **MCAPCO Regulation 1.5214 - “Commencement of Operation”**. Upon completion of construction, alteration or installation pursuant to this permit, the permit holder shall notify the Director in writing of such completion and of the holder’s intent to commence operation.

A-15. Malfunction and Excess Emissions Provisions:

In accordance with **MCAPCO Regulation 1.5508 - “Permit Content”** Subparagraph (f)(2), the Permittee shall report malfunctions, emergencies, and other upset conditions promptly as prescribed in **MCAPCO Regulations 2.0524 - “New Source Performance Standards”**, **2.0535 - “Excess Emissions Reporting and Malfunctions” (except Paragraph (g))**, **2.1110 - “National Emission Standards for Hazardous Air Pollutants”**, or **2.1111 - “Maximum Achievable Control Technology”**.

The permittee shall report to the Director within two business days after becoming aware of any deviation not covered by **MCAPCO Regulations 2.0524 - “New Source Performance Standards”**, **2.0535 - “Excess Emissions Reporting and Malfunctions” (except Paragraph (g))**, **2.1110 - “National Emission Standards for Hazardous Air Pollutants”**, or **2.1111 - “Maximum Achievable Control Technology”**.

All reports of deviations and excess emissions shall be certified by a responsible official. After a malfunction or breakdown has been corrected, the Director may require the source to conduct a performance test to demonstrate compliance.

MCAPCO Regulation 2.0535 – “Excess Emissions Reporting and Malfunctions” Paragraph (g) is not a SIP enforceable provision and therefore the conditions and allowances allowed therein are considered as Local only requirements (see Facility Condition and Limitation No. B-8).

A-16. Monitoring Data Recordkeeping and Reporting

In accordance with **MCAPCO Regulation 1.5508 - “Permit Content” Paragraph (f):**

- a. 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 instrumentation and copies of all reports required by the permit.)

- b. The Permittee shall submit reports of any required monitoring as listed in Part 2 of this Permit to MCAQ at least every six months. The reports should include a summary of data and observations, identification of any deviations from normal operating parameters, and any corrective action taken to return the monitored emission source to normal operating conditions. Normal operating parameters shall be determined from information on file and any operating ranges listed in Part 2 of this permit.

A-17. Annual Emissions Reporting

In accordance with **MCAPCO Regulation 1.5508 - “Permit Content” Subparagraph (i)(14)**, the Permittee shall submit annual reports of actual and potential emissions as required pursuant to **MCAPCO Regulation 1.5111 - “General Recordkeeping, Reporting and Monitoring Requirements”** and as specified in the Permit.

A-18. Duty to Provide Information

In accordance with **MCAPCO Regulation 1.5508 - “Permit Content” Subparagraph (i)(9)**, the Permittee shall furnish to MCAQ, in a timely manner, any information that MCAQ 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. The Permittee shall furnish to MCAQ copies of records required to be kept by the permit when such copies are requested by the Director.

A-19. Submissions

In accordance with **MCAPCO Section 1.5500 - “Title V Procedures”**, any document submitted shall be certified by a responsible corporate official as being true, accurate and complete. Reports, test data, monitoring data, notifications and requests for renewal shall be submitted to:

Director
Mecklenburg County Air Quality
2145 Suttle Avenue
Charlotte, NC 28208-5237

A-20. Information Submittal

The owner or operator shall submit all reports or information as may be required by MCAQ.

OPERATIONAL REQUIREMENTS/STANDARDS

A-21. Equipment and Control Device Operation

Unless otherwise specified by this permit, no equipment may be operated without the concurrent operation of the permitted air emissions control devices.

A-22. National Emission Standards for Hazardous Air Pollutants

The facility shall be operated in accordance with **MCAPCO Regulation 2.1110 - “National Emission Standards for Hazardous Air Pollutants”**, which refers to Title 40 of the Code of Federal Regulations Part 61.140 to 61.157, Subpart M, National Emission Standard for Asbestos, when conducting any renovation or demolition activities.

A-23. Visible Emissions

The facility shall be operated in accordance with **MCAPCO Regulation 1.5107 - “Control and Prohibition of Visible Emissions”**, such that visible emissions shall not be more than 20% opacity for an aggregate of more than six (6) minutes in any one hour or more than twenty (20) minutes in any 24-hour period.

Facilities subject to a visible emission standard as specified by applicability to **MCAPCO Regulations 2.0524 - “New Source Performance Standards”**, or **2.1110 - “National Emission Standards for Hazardous Air Pollutants”**, shall comply with the more stringent standard, but, in no case shall the source’s visible emissions exceed 20% opacity.

A-24. Dust and Related Material

The facility shall be operated in accordance with **MCAPCO Regulation 1.5108 - “Dust and Related Material”**, such that dust shall not be discharged into the atmosphere in such quantities that the ambient air quality standards are exceeded at the property line or in such quantities or of such toxic or corrosive nature that may be injurious to humans or animals or may cause damage to the property of others.

A-25. Fugitive Dust Emission Sources

As required by **MCAPCO Regulation 2.0540 - “Particulates from Fugitive Dust Emission Sources”**, the permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints.

- a. If fugitive dust emissions cause or contribute to substantive complaints, the permittee shall:
 1. within 30 days upon receipt of written notification from the Director of a second substantive complaint in a 12-month period, submit to the Director a written report that includes the identification of the probable source(s) of the fugitive dust emissions causing complaints and what immediate measures can be made to abate the fugitive emissions;
 2. within 60 days of the initial report submitted under Subparagraph (1) of this Paragraph, submit to the Director a control plan as described in Paragraph (f) of this Regulation; and
 3. within 30 days after the Director approves the plan, be in compliance with the plan.
- b. The Director may require that the permittee develop and submit a fugitive dust control plan as described in MCAPCO 2.0540(f) if:
 1. ambient air quality measurements or dispersion modeling as provided in Paragraph (e) of MCAPCO Regulation 2.1106 – “Determination of Ambient Air Concentrations” show violation or potential for a violation of an ambient air quality standard for particulates in MCAPCO Section 2.0400 - “Ambient Air Quality Standards”; or

2. if MCAQ observes excessive fugitive dust emissions from the facility beyond the property boundaries for six minutes in any one hour using Reference Method 22 in 40 CFR 60, Appendix A.

A-26. Protection of Stratospheric Ozone

In accordance with **MCAPCO Regulation 1.5501 - “Purpose of Section and Requirement for a Permit” Paragraph (d)**, the Permittee is subject to all the applicable requirements and standards for recycling and emissions reduction pursuant to:

- a. **40 CFR Part 82, Subpart F - “Recycling and Emissions Reduction”** including the following:
 1. persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant **40 CFR 82.156**;
 2. equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to **40 CFR 82.158**;
 3. persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to **40 CFR 82.161**;
 4. persons disposing of small appliances, motor vehicle air conditioners (MVACs), and MVAC-like appliances (as defined in **40 CFR 82.152**) must comply with recordkeeping requirements pursuant to **40 CFR 82.166**;
 5. persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to **40 CFR 82.156**; and
 6. owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to **40 CFR 82.166**; and,
- b. **40 CFR Part 82, Subpart B - “Servicing of Motor Vehicle Air Conditioners”**, if the facility maintains, services, repairs, or disposes of MVACs.

A-27. Chemical Accident Prevention Provisions

In accordance with **40 CFR Part 68.215 - “Permit Content and Air Permitting Authority or Designated Agency Requirements”**, any stationary source subject to the Chemical Accident Prevention Provisions of **40 CFR Part 68** shall comply with such provisions, including but not limited to the submittal of a Risk Management Plan (Subpart G) .

A-28. Insignificant Activities

The facility shall be operated in accordance with **MCAPCO Regulation 1.5508 - “Permit Content”, Subparagraphs (i)(15) and (i)(16)** such that all insignificant activities as defined in **MCAPCO Regulation 1.5503 - “Definitions”** shall be included in the permit and shall comply with any applicable requirement in MCAPCO.

COMPLIANCE PROVISIONS

A-29. Duty to Comply with this Permit

In accordance with **MCAPCO Regulation 1.5508 - “Permit Content” Subparagraph (i)(3)**, noncompliance with any term, condition, or limitation of this permit is grounds for enforcement action; for permit termination, revocation and reissuance or modification; or for denial of a permit renewal application.

In accordance with **MCAPCO Regulation 1.5508 - “Permit Content” Subparagraph (i)(4)**, a Permittee shall not claim that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit as a defense in an enforcement action.

A-30. Enforcement/Variations/Judicial Review

Violation of any applicable MCAPCO regulation or condition listed herein could result in administrative fines and/or legal action as prescribed in **MCAPCO Section 1.5300 - “Enforcement; Variations; Judicial Review”**.

A-31. Duty to Comply with Other Regulations

This permit does not relieve the Permittee of the responsibility of complying with all applicable requirements of any Federal, State, or local water quality or land quality control authority.

A-32. Determination of Compliance

This permit contains provisions which require a specific test method, monitoring, or recordkeeping to be used as a demonstration of compliance with permit limits, but are not intended as the only means of demonstration or certifying compliance with permit limits. Unless otherwise specified, the averaging times for all specified emission standards are tied to or based on the run time of the test method(s) used for determining compliance. Compliance with MCAPCO, including the specific conditions herein, shall be determined by source testing, surveillance, visual observations, data review, plant inspections, and any other credible evidence.

A-33. Compliance Certification

In accordance with **MCAPCO Regulation 1.5508 - “Permit Content” Paragraph (n)**, the Permittee shall submit to MCAQ and EPA by April 30 of each year, a compliance certification by a responsible official with all terms and conditions in the permit, including emissions limitations, standards, and work practices. The certification shall specify:

- a. the identification of each term or condition of the permit that is the basis of the certification;
- b. the compliance status as shown by monitoring data and other information reasonably available to the Permittee;
- c. whether compliance was continuous or intermittent;
- d. the methods used for determining the compliance status of the source, currently and over the reporting period; and,
- e. such other facts as the permit may specify to determine the compliance status of the source.

The compliance certification shall identify each deviation and take it into account in the compliance certification. 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.

All compliance certifications shall be submitted to MCAQ and the EPA at the following addresses:

Director
Mecklenburg County Air Quality
2145 Suttle Avenue
Charlotte, NC 28208-5237

and Environmental Protection Agency
Attn: APTMD Air & EPCRA Enforcement Branch
Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, GA 30303-3104

In accordance with **MCAPCO Regulation 1.5520 - “Certification by Responsible Official”**, a responsible official shall certify the truth, accuracy, and completeness of the compliance certification. The certification shall state that, based on information and belief formed after reasonable inquiry, statements and information in the document are true, accurate, and complete.

A-34. Permit Shield

In accordance with **MCAPCO Regulation 1.5512 - “Permit Shield and Application Shield”**, and pursuant to the terms, conditions, and limitations of this permit, the facility shall be deemed in compliance with all applicable requirements as of the date of permit issuance except as follows:

- a. This permit shield shall not apply to any change made at this facility that does not require a permit revision.
- b. This permit shield shall not extend to minor permit modifications made pursuant to **MCAPCO Regulation 1.5515 - “Minor Permit Modifications”**.
- c. Nothing in this permit shall alter or affect:
 1. the power of the Director, Mecklenburg County Air Quality under NCGS 143-215.112 or MCAPCO or EPA under Section 303 of the federal Clean Air Act;
 2. the liability of an owner or operator of a facility for any violation of applicable requirements prior to or at the time of permit issuance;
 3. the applicable requirements under Title IV; or
 4. the ability of MCAQ (or EPA pursuant to Section 114 of the federal Clean Air Act) to obtain information to determine compliance of the facility with its permit.

A-35. Severability Clause

In accordance with **MCAPCO Regulation 1.5508 - “Permit Content” Subparagraph (i)(2)**, the provisions of this permit are severable. Upon any administrative or judicial challenge, or if any provision of this permit is held invalid, all permit requirements, except those being challenged, will remain valid and enforceable.

A-36. Enforcement Clause

In accordance with **MCAPCO Regulation 1.5508 - “Permit Content” Subparagraph (i)(3)**, noncompliance with any condition of the permit is grounds for enforcement action. In addition, noncompliance with any condition may result in permit termination, revocation and reissuance, modification, or denial of a permit renewal application.

In accordance with **MCAPCO Regulation 1.5508 - “Permit Content” Subparagraph (i)(4)**, the Permittee may not use as a defense 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.

B. LOCAL ONLY REQUIREMENTS

Only Mecklenburg County Air Quality (MCAQ) has the authority to enforce the terms, conditions, and limitations contained in this section. The EPA does not have the authority to enforce the terms, conditions, and limitations contained in this section.

B-1. Incorrect Information and Facility Operation

This permit is subject to revocation or modification by MCAQ upon a determination that information contained in the application or presented in the support thereof is incorrect, conditions under which this permit was granted have changed, or violations of conditions contained in this permit have occurred. 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.

B-2. Violations Prior to Effective Permit Date

This issuance of this permit in no way absolves the Permittee of liability for any potential legal action and/or penalties which may be assessed for violations of local regulations which have occurred prior to the effective date of this permit.

B-3. Operation and Maintenance Reports

Reports on the operation and maintenance of the facility shall be submitted by the Permittee to the Director, Mecklenburg County Air Quality at such intervals and in such form and detail as may be required by MCAQ. Information required in such reports may include, but is not limited to, process weight rates, firing rates, hours of operation, and preventive maintenance schedules.

B-4. Violation of Terms or Conditions

A violation of any Locally enforceable term or condition of this permit shall subject the Permittee to enforcement pursuant to **MCAPCO Section 1.5300 - “Enforcement; Variances; Judicial Review”**, including assessment of civil penalties.

B-5. Toxic Air Pollutants

In accordance with **MCAPCO Section 1.5700 - “Toxic Air Pollutant Procedures”** and/or **MCAPCO Regulation 2.1104 - “Toxic Air Pollutant Guidelines”**, the toxic air pollutants (TAP) emitted by existing processes have been reviewed for regulatory applicability by MCAQ. If applicable, Appendix A lists the relevant permits and associated TAPs.

In accordance with **MCAPCO Regulations 1.5111 - “General Recordkeeping, Reporting and Monitoring Requirements”, 2.0605 – “General Recordkeeping and Reporting Requirements”, and/or 2.0903 - “Recordkeeping: Reporting: Monitoring”**, the facility shall report any process additions, modifications or deletions which affect the emissions of any TAP listed in **MCAPCO Section 1.5700 - “Toxic Air Pollutant Procedures”** as prescribed by the following:

- a. If the process modifications will result in a facility-wide TAP emission rate that exceeds the rate listed in **MCAPCO Regulation 1.5711 – “Emission Rates Requiring a Permit”** for any TAP, apply and receive an air toxics permit before the process modification occurs; or
- b. If the process modifications will result in facility-wide TAP emission rates that are below the rates listed in **MCAPCO Regulation 1.5711 - “Emission Rates Requiring a Permit”**, submit the new emission rates to MCAQ 15 days prior to the initial change; or
- c. If the process modifications will not result in a net TAP emission increase, provide MCAQ with demonstration (15 days prior to the initial change) that the proposed modification will not result in a net TAP emission increase at the facility.

The facility is required to maintain documentation such that upon request by MCAQ, the facility can make a demonstration that facility-wide emissions of TAPs have or have not exceeded the rates listed in **MCAPCO Regulation 1.5711**.

B-6. Nuisance

The facility shall be operated in accordance with **MCAPCO Regulation 1.5109 - “Nuisance”**. The source shall not discharge any air contaminants or other material to cause injury, detriment, nuisance, annoyance, or endanger the comfort, repose, health or safety of the public or property.

B-7. Odorous Emissions

The facility shall be operated in accordance with **MCAPCO Regulation 1.5110 - “Control and Prohibition of Odorous Emissions”**. The owner or operator of a facility shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility’s boundary.

If the Director determines that a source or facility is emitting an objectionable odor, the owner or operator shall be responsible for:

- providing the maximum feasible control determination according to the procedures in **MCAPCO Regulation 1.5113 - “Determination of Maximum Feasible Controls for Odorous Emissions”**, and
- implementing maximum feasible controls for the control of odorous emissions.

B-8. Start-up and Shut-down Excess Emissions Provisions

In accordance with **MCAPCO Regulation 2.0535 – “Excess Emissions Reporting and Malfunctions”** Paragraph (g), excess emissions during start-up and shut-down shall be considered a violation, if the owner or operator cannot demonstrate that the excess emissions are unavoidable. The Director shall determine if excess emissions are unavoidable considering the items listed in this Regulation. The owner or operator shall operate the source and control and monitoring equipment in a manner to minimize emissions during start-up and shut-down.

C. FEDERAL ONLY REQUIREMENTS

Only the EPA has the authority to enforce the terms, conditions, and limitations contained in this section. Mecklenburg County Air Quality does not have the authority to enforce the terms, conditions, and limitations contained in this section.

- THERE ARE NO FEDERAL ONLY REQUIREMENTS FOR THIS PERMIT -

PART 2

Emission Source Conditions and Limitations

PART 2

Emission Source Conditions and Limitations

In accordance with MCAPCO Section 1.5500 -"Title V Procedures", the facility shall comply with all applicable rules and regulations whether or not these rules and regulations are specifically identified in the permit. The emission sources and control devices listed in the following table are subject to the Emission Source Conditions and Limitations contained in Part 2 as referenced in the table.

Emission Source ID	Emission Source Description (type, manufacturer and capacity)	Installation(I)/Modification(M) Dates	Control Device ID	Control Device Unit or Method (type, model, manufacturer, installation/modification)	Emission Source Conditions and Limitations		
					Local and Federal Requirements	Local Only Requirements	Federal Only Requirements
ES-4 GB (MX-1)	One (1) Hocon 26.587 mm Btu/hr natural gas-fired boiler with diesel as the alternate fuel	I=1997	None	None	D-1, D-3, D-6, D-8, D-9, D-10, D-12, D-13	E-1	N/A
ES-5 GB (MX-1)	One (1) Hocon 26.587 mm Btu/hr natural gas-fired boiler with diesel as the alternate fuel	I=1997	None	None	D-1, D-3, D-6, D-8, D-9, D-10, D-12, D-13	E-1	N/A
ES-6 GB (MX-1)	One (1) Hocon 26.587 mm Btu/hr natural gas-fired boiler with diesel as the alternate fuel	I=1997	None	None	D-1, D-3, D-6, D-8, D-9, D-10, D-12, D-13	E-1	N/A
ES-7 Gen (MX-1)	One (1) Caterpillar 1180 HP (800 kW) diesel emergency generator	I=1998	None	None	D-3, D-4, D-8, D-9, D-10, D-13	E-1	N/A
ES-8 GB (MX-3)	One (1) H.P. Leeftang 31.73 mm Btu/hr natural gas-fired boiler with diesel as the alternate fuel	I=2000	None	None	D-1, D-3, D-6, D-8, D-9, D-10, D-12, D-13	E-1	N/A
ES-9 GB (MX-3)	One (1) H.P. Leeftang 31.73 mm Btu/hr natural gas-fired boiler with diesel as the alternate fuel	I=2000	None	None	D-1, D-3, D-6, D-8, D-9, D-10, D-12, D-13	E-1	N/A

ES-10 GB (MX-3)	One (1) H.P. Leeflang 31.73 mm Btu/hr natural gas-fired boiler with diesel as the alternate fuel	I=2000	None	None	D-1, D-3, D-6, D-8, D-9, D-10, D-12, D-13	E-1	N/A
ES-12 GB (MX-4)	One (1) Crone 24.8 mm Btu/hr natural gas-fired boiler with diesel as the alternate fuel	I=2003	None	None	D-1, D-3, D-6, D-8, D-9, D-10, D-12, D-13	E-1	N/A
ES-13 GB (MX-4)	One (1) Crone 24.8 mm Btu/hr natural gas-fired boiler with diesel as the alternate fuel	I=2003	None	None	D-1, D-3, D-6, D-8, D-9, D-10, D-12, D-13	E-1	N/A
ES-14 GB (MX-4)	One (1) Crone 24.8 mm Btu/hr natural gas-fired boiler with low-sulfur diesel fuel as the alternate fuel	I=2003	None	None	D-1, D-3, D-6, D-8, D-9, D-10, D-12, D-13	E-1	N/A
ES-15 GB (MX-2)	One (1) Crone 24.8 mm Btu/hr natural gas-fired boiler with diesel as the alternate fuel	I=2004	None	None	D-1, D-3, D-6, D-8, D-9, D-10, D-12, D-13	E-1	N/A
ES-16 GB (MX-2)	One (1) Crone 24.8 mm Btu/hr natural gas-fired boiler with diesel as the alternate fuel	I=2004	None	None	D-1, D-3, D-6, D-8, D-9, D-10, D-12, D-13	E-1	N/A
ES-17 Gen (MX-2)	One (1) Caterpillar 1180 HP (800 kW) diesel emergency generator	I=2006	None	None	D-3, D-4, D-8, D-9, D-10, D-13	E-1	N/A
ES-18 GB (MX-2)	One (1) Crone 33.0 mm Btu/hr natural gas-fired boiler	I=2007	None	None	D-1, D-3, D-6, D-8, D-9, D-10, D-12, D-13	E-1	N/A
ES-19 Wood Boiler	One (1) Vyncke 29.5 mm Btu/hr wood-fired boiler	I=2009	CD 19A CD 19B	CD 19A- One Vyncke (1) 144-tube multicyclone mechanical collector CD 19B- One (1) PPC Industries Electrostatic Precipitator	D-2, D-3, D-5, D-6, D-8, D-9, D-10, D-11, D-13	E-1	N/A

ES-20 Wood Boiler	One (1) Vyncke 29.5 mm Btu/hr wood-fired boiler	I=2009	CD 20A CD 20B	CD 20A- One Vyncke (1) 144-tube multicyclone mechanical collector CD 20B- One (1) PPC Industries Electrostatic Precipitator	D-2, D-3, D-5, D-6, D-8, D-9, D-10, D-11, D-13	E-1	N/A
ES-21 Wood Boiler	One (1) Vyncke 29.5 mm Btu/hr wood-fired boiler	I=2009	CD 21A CD 21B	CD 21A- One Vyncke (1) 144-tube multicyclone mechanical collector CD 21B- One (1) PPC Industries Electrostatic Precipitator	D-2, D-3, D-5, D-6, D-8, D-9, D-10, D-11, D-13	E-1	N/A
ES-22 Wood Boiler	One (1) Vyncke 29.5 mm Btu/hr wood-fired boiler	I=2009	CD 22A CD 22B	CD 22A- One Vyncke (1) 144-tube multicyclone mechanical collector CD 22B- One (1) PPC Industries Electrostatic Precipitator	D-2, D-3, D-5, D-6, D-8, D-9, D-10, D-11, D-13	E-1	N/A
ES-24 Wood Boiler Gen	One (1) Caterpillar 2,168 HP (1500 kW) diesel emergency generator	I=2010	None	None	D-3, D-4, D-7, D-8, D-9, D-10, D-13	E-1	N/A
Insignificant Activities							
IA-1 Gen (Downstairs Purple)	One (1) Caterpillar 864 HP (500 kW) diesel emergency generator	I=2015	None	None	D-3, D-4, D-7, D-8, D-9, D-10, D- 13	E-1	N/A
IA-2 Gen (Downstairs Orange)	One (1) Caterpillar 890 HP (600 kW) diesel emergency generator	I=1986	None	None	D-3, D-4, D-8, D-9, D-10, D-13	E-1	N/A

IA-3 Gen (Upstairs)	One (1) Caterpillar 375 HP (250 kW) diesel emergency generator	I=1990	None	None	D-3, D-4, D-8, D-9, D-10, D-13	E-1	N/A
IA-11 Gen (New Shop)	One (1) Caterpillar 519 HP (350 kW) diesel emergency generator	I=2001	None	None	D-3, D-4, D-8, D-9, D-10, D-13	E-1	N/A
IA-3306 Gen (DC)	One (1) Caterpillar 538 HP (500 kW) diesel emergency generator	I=1996	None	None	D-3, D-4, D-7, D-8, D-9, D-10, D-13	E-1	N/A
IA-23 Gen (Zero Green)	One (1) Caterpillar 532 HP (350 kW) diesel emergency generator	I=2009	None	None	D-3, D-4, D-7, D-8, D-9, D-10, D-13	E-1	N/A
IA-25 Gen (MX-1)	One (1) Caterpillar 480 HP (300 kW) diesel emergency generator	I=2011	None	None	D-3, D-4, D-7, D-8, D-9, D-10, D-13	E-1	N/A
IA-26 SB	One (1) 0.45 mmBTU/hr Bryan natural gas-fired steam boiler	I=2013	None	None	D-1, D-3, D-8, D-9, D-13	E-1	N/A
IA-27 MX5	One (1) 8.0 mmBtu/hr natural gas-fired boiler		None	None	D-1, D-3, D-8, D-9, D-13	N/A	N/A
IA-28 MX5	One (1) 8.0 mmBtu/hr natural gas-fired boiler		None	None	D-1, D-3, D-8, D-9, D-13	N/A	N/A
IA-Gas	One (1) gasoline dispensing operation with 2,700 gallon storage tank		None	None	N/A	N/A	N/A
IA-Tanks	Fuel oil storage tanks: MX-1: 220,800 gallon tank MX-3: 27,000 gallon tank MX-4 (2 tanks): 16,000 gallon tank and 22,000 gallon tank		None	None	N/A	N/A	N/A

ALTERNATIVE OPERATING SCENARIOS

The following alternative operating scenarios (AOS) may be implemented by the facility without providing notification to MCAQ.

Emission Source ID	Emission Source Description	Alternative Operating Scenario No.	AOS Description	Emission Source Conditions and Limitations		
				Local and Federal Requirements	Local Requirements	Federal Requirements
There are no alternative operating scenarios for this facility.						

NOTE: If an alternative operating scenario includes construction or installation of new equipment (equipment not currently on-site), the new equipment will be subject to MCAPCO Regulation 1.5232- "Issuance, Revocation, and Enforcement of Permits" Subparagraph (a)(5) which states in part: if "construction of the permitted equipment does not commence within 18 months of permit issuance or once construction has begun, it ceases prior to completion for a period of 18 consecutive months", the permit may be revoked or modified.

EMISSION SOURCE CONDITIONS AND LIMITATIONS

D. LOCAL AND FEDERAL REQUIREMENTS

Mecklenburg County Air Quality (“MCAQ”) and the United States Environmental Protection Agency (“EPA”) have the authority to enforce the terms, conditions, and limitations contained in this section.

- D-1. The facility shall be operated in accordance with **MCAPCO Regulation 2.0503 - “Particulates from Fuel Burning Indirect Heat Exchangers”**, such that the maximum particulate emission rate resulting from the combustion of a fuel shall not exceed the allowable emission rate of 0.25 lb/million Btu input.
- D-2. The facility shall be operated in accordance with **MCAPCO Regulation 2.0504 – “Particulates from Wood Burning Indirect Heat Exchangers”**, such that the maximum particulate emission rate resulting from the combustion of a fuel shall not exceed the allowable emission rate of 0.40 lb/million Btu input.
- D-3. The facility shall be operated in accordance with **MCAPCO Regulation 2.0516 - “Sulfur Dioxide Emissions from Combustion Sources”**, such that sulfur dioxide emissions from any vent, stack or chimney shall not exceed 2.3 pounds per million Btu input.
- D-4. The facility shall be operated in accordance with **MCAPCO Regulation 2.1111 - “Maximum Achievable Control Technology”** and **40 CFR Part 63 - “National Emission Standards For Hazardous Air Pollutants For Source Categories.”** The requirements are stated in **40 CFR 63.1 to 63.15 Subpart A - “General Provisions”**, and **40 CFR 63.6580 to 63.6675 Subpart ZZZZ - “National Emission Standards from Stationary Reciprocating Internal Combustion Engines” (RICE)**, including but not limited to:
- A. **63.6580 – “What is the purpose of subpart ZZZZ?”**
 - B. **63.6585 - “Am I subject to this subpart?”**
This section states in part that you are subject to this subpart if you own or operate a stationary RICE at a major or area source of HAP emissions.
 - C. **63.6590 – “What parts of my plant does this subpart cover?”**
Portions of this section define existing, new, and reconstructed stationary RICE for the purpose of determining emission control requirements. An affected source that is a new or reconstructed stationary RICE located at an area source must meet the requirements of this subpart by meeting the requirements of 40 CFR 60 Subpart IIII, for compression ignition engines, or 40 CFR 60 Subpart JJJJ, for spark ignition engine.
 - D. **63.6595 – “When do I have to comply with this subpart?”**
Portions of this section require that the owner or operator of a new or reconstructed source comply with the requirements of this subpart by January 18, 2008 if startup of the source is before that date, and on startup if startup of the source is after that date. An owner or operator of a source that is an existing non-emergency stationary RICE with a site rating of more than 500 brake HP located at a major source, an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source, or an existing stationary RICE located at an area source must comply with the requirements of this subpart no later than May 3, 2013.
 - E. **63.6600 – “What emission limitations and operating limitations must I meet if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?”**

- F. **63.6601** – “What emission limitations must I meet if I own or operate a 4SLB stationary RICE with a site rating of greater than or equal to 250 brake HP and less than 500 brake HP located at a major source of HAP emissions?”
 - G. **63.6602** – “What emission limitations must I meet if I own or operate an existing stationary CI RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions?”
 - H. **63.6603** – “What emission limitations and operating limitations must I meet if I own or operate an existing stationary CI RICE located at an area source of HAP emissions?”
 - I. **63.6604** – “What fuel requirements must I meet if I own or operate an existing stationary CI RICE?”
 - J. **63.6605** – “What are my general requirements for complying with this subpart?”
 - K. **63.6610** – “By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?”
 - L. **63.6611** – “By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate a 4SLB SI stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at a major source of HAP emissions?”
 - M. **63.6612** – “By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing stationary RICE located at an area source of HAP emissions?”
 - N. **63.6615** – “When must I conduct subsequent performance tests?”
 - O. **63.6620** – “What performance tests and other procedures must I use?”
 - P. **63.6625** – “What are my monitoring, installation, operation, and maintenance requirements?”
 - Q. **63.6630** – “How do I demonstrate initial compliance with the emission limitations and operating limitations?”
 - R. **63.6635** – “How do I monitor and collect data to demonstrate continuous compliance?”
 - S. **63.6640** – “How do I demonstrate continuous compliance with the emission limitations and operating limitations?”
 - T. **63.6645** – “What notifications must I submit and when?”
 - U. **63.6650** – “What reports must I submit and when?”
 - V. **63.6655** – “What records must I keep?”
 - W. **63.6660** – “In what form and how long must I keep my records?”
 - X. **63.6665** – “What parts of the General Provisions apply to me?”
 - Y. **63.6670** – “Who implements and enforces this subpart?”
 - Z. **63.6675** – “What definitions apply to this subpart?”
- D-5. The facility shall be operated in accordance with **MCAPCO Regulation 2.1111 - “Maximum Achievable Control Technology”** and **40 CFR Part 63 - “National Emission Standards For Hazardous Air Pollutants For Source Categories”**. The requirements are stated in **40 CFR 63.1 to 63.15 Subpart A - “General Provisions”**, and **40 CFR 63.11193 to 63.11237** (including Tables 1 through 8) **Subpart JJJJJJ - “National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources”**, which includes the following pertinent sections:
- A. **63.11193** – “Am I subject to this subpart?”
This section states in part that you are subject to this subpart if you own or operate a an industrial, commercial, or institutional boiler that is located at an area source of HAP emissions.

- B. **63.11194 - “What is the affected source of this subpart?”**
Portions of this section define an affected source within a fuel subcategory (coal, biomass, or oil).
- C. **63.11195 – “Are any boilers not subject to this subpart?”**
- D. **63.11196 - “What are my compliance dates?”**
The compliance date for existing boilers subject to work practice standards, emission limits and/or an energy assessment is March 21, 2014. New boilers (start-up after May 20, 2011) must demonstrate compliance upon startup.
- E. **63.11200 – “What are the subcategories of boilers?”**
- F. **63.11201 – “What standards must I meet?”**
Tables 1, 2, and 3 outline emission limits, operating limits, and work practice standards.
- G. **63.11205 – “What are my general requirements for complying with this subpart?”**
- H. **63.11210 – “What are my initial compliance requirements and by what date must I conduct them?”**
- I. **63.11211 – “How do I demonstrate initial compliance with the emission limits?”**
- J. **63.11212 – “What stack tests and procedures must I use for the performance tests?”**
- K. **63.11213 – “What fuel analyses and procedures must I use for the performance tests?”**
- L. **63.11214 – “How do I demonstrate initial compliance with the work practice standard, emission reduction measures, and management practices?”**
- M. **63.11220 – “When must I conduct subsequent performance tests or fuel analyses?”**
- N. **63.11221 – “Is there a minimum amount of monitoring data I must obtain?”**
- O. **63.11222 – “How do I demonstrate continuous compliance with the emission limits?”**
- P. **63.11223 – “How do I demonstrate continuous compliance with the work practice and management practice standards?”**
- Q. **63.11224 – “What are my monitoring, installation, operation, and maintenance requirements?”**
- R. **63.11225 – “What are my notification, reporting, and recordkeeping requirements?”**
- S. **63.11226 – “How can I assert an affirmative defense if I exceed an emission limit during a malfunction?”**
- T. **63.11235 – “What parts of the General Provisions apply to me?”**
- U. **63.11236 – “Who implements and enforces this subpart?”**
- V. **63.11237 – “What definitions apply to this subpart?”**

D-6. The facility shall be operated in accordance with **MCAPCO Regulation 2.0524 - “New Source Performance Standards”**. The requirements are stated in **40 CFR 60.1 to 60.19, Subpart A - “General Provisions”**, and **40 CFR 60.40c to 60.48c, Subpart Dc - “Standards of Performance for Small Industrial - Commercial - Institutional Steam Generating Units”** including but not limited to:

- A. **60.40c - “Applicability and delegation of authority”**
- B. **60.41c - “Definitions”**
- C. **60.42c - “Standard for sulfur dioxide”**
Portions of this Section require that the owner or operator of an affected facility that combusts oil shall not cause SO₂ emissions in excess of 0.50 lb/million Btu heat input; or alternately, shall not combust oil that contains greater than 0.5 weight percent sulfur. Distillate oil fired facilities with heat input capabilities between 10 and 100 million Btu/hr may determine compliance with emission limits or fuel oil sulfur limits based on a document submittal from the fuel supplier certifying the name of the oil supplier and stating that the oil complies with the specifications under the definition of distillate oil in 60.41c and showing the sulfur content or maximum sulfur content of the oil.

- D. **60.43c - “Standard for particulate matter**
Portions of this Section require that the owner or operator of an affected facility that combusts oil and has a heat input capacity of 8.7 MW (30 million Btu/hr) or greater shall not cause the emission of gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.
 - E. **60.44c - “Compliance and performance test methods and procedures for sulfur dioxide”**
Refer to 60.44c and Condition and Limitation No. D-12 of this permit for all testing requirements.
 - F. **60.45c - “Compliance and performance test methods and procedures for particulate matter”**
Refer to 60.45c and Condition and Limitation No. D-12 of this permit for all testing requirements.
 - G. **60.46c - “Emission monitoring for sulfur dioxide”**
Refer to 60.46c and Condition and Limitation No. D-10 of this permit for all monitoring requirements.
 - H. **60.47c - “Emission monitoring for particulate matter”**
Refer to 60.47c and Condition and Limitation No. D-10 of this permit for all monitoring requirements.
 - I. **60.48c - “Reporting and recordkeeping requirements”**
Refer to 60.48c and Condition and Limitation Nos. D-10 and D-13 of this permit for all reporting and recordkeeping requirements.
- D-7. The facility shall be operated in accordance with **MCAPCO Regulation 2.0524 - “New Source Performance Standards”**. The requirements are stated in **40 CFR 60.1 to 60.19, Subpart A - “General Provisions”**, and **40 CFR 60.4200 to 60.4219, Subpart III - “Standards of Performance for Stationary Compression Ignition Internal Combustion Engines” (“CI ICE”)** which includes the following pertinent sections:
- A. **60.4200 - “Am I subject to this subpart?”**
 - B. **60.4204 - “What emission standards must I meet for non-emergency engines if I am an owner or operator of a stationary CI ICE?”**
Portions of this Section require that the owner or operator of an affected source comply with the emission standards specified in this subpart depending on model year and size of the non-emergency engine/generator.
 - C. **60.4205 - “What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI ICE?”**
Portions of this Section require that the owner or operator of an affected source comply with the emission standards specified in this subpart depending on model year and size of the emergency engine/generator.
 - D. **60.4206 - “How long must I meet the emission standards if I am an owner or operator of a stationary CI ICE?”**
Portions of this Section require that the owner or operator of an affected source must comply with the emission standards of this subpart over the entire life of the engine.
 - E. **60.4207 - “What fuel requirements must I meet if I am an owner or operator of a stationary CI ICE subject to this subpart?”**
Portions of this Section require that the owner or operator of an affected source must, beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a), which in turn requires the fuel sulfur content be less than 500 ppm. Beginning October 1, 2010, owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel, which in turn requires the fuel sulfur content be less than 15ppm.
 - F. **60.4208 - “What is the deadline for importing or installing stationary CI ICE produced in the previous model year?”**
Portions of this Section establish the deadline by which a previous model year CI ICE may be installed for each year for which an emission standard is established in this subpart.

- G. **60.4209 - “What are the monitoring requirements if I am an owner or operator of a stationary CI ICE?”**
Refer to 60.4209 and Condition and Limitation No. D-10 of this permit for all monitoring requirements.
- H. **60.4211 - “What are my compliance requirements if I am an owner or operator of a stationary CI ICE?”**
Portions of this section specify the compliance options for an owner or operator of an affected source depending on model year and size of the engine.
- I. **60.4212/60.4213 - “What test methods and other procedures must I use if I am an owner or operator of a stationary CI ICE with a displacement of less than 30 liters per cylinder (60.4212)/greater than or equal to 30 liters per cylinder (60.4214)?”**
Refer to 60.4212/4213 and Condition and Limitation No. D-12 of this permit for all testing requirements.
- J. **60.4214 - “What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI ICE?”**
Refer to 60.4214 and Condition and Limitation Nos. D-10 and D-13 of this permit for all reporting and recordkeeping requirements.

D-8. The facility shall be operated in accordance with **MCAPCO Regulation 1.5236 - “Synthetic Minor Facilities”**, such that facility-wide emissions during any consecutive 12-month period shall be less than:

▶ 100 tons for the following pollutant(s):

PM₁₀/PM_{2.5}, NO_x, and SO₂; and

▶ The maximum emissions of NO_x from all sources at the facility shall be less than 560 pounds per calendar day beginning May 1 through September 30 of any year.

Emissions for the above-referenced pollutant(s) shall be determined using one or more of the following methods as applicable:

1. Emission rates and control efficiencies obtained through MCAQ-approved emission source testing;
2. Material (mass) balance based on product usage;
3. Emission factors or rates found in the latest edition of the “Compilation of Air Pollutant Emission Factors”, EPA document AP-42;
4. Other emission factors or rates as approved by MCAQ.

Air emissions emanating from activities exempted from permitting pursuant to **MCAPCO Regulation 1.5211 - “Applicability”** subparagraph (g)(2) shall be considered when determining compliance with facility wide limits. The emissions limitation was requested by the facility to preclude a categorical determination as a “major facility” and the requirements of **MCAPCO Section 1.5500 - “Title V Procedures”** and/or **Section 2.1400 – “Nitrogen Oxides”**.

D-9. The maximum emissions of carbon monoxide (CO) from all sources at the facility shall be less than 250 tons per year as determined by any 12-month rolling period. This limit is assumed by the facility in order to preclude applicability to **MCAPCO 2.0530 – “Prevention of Significant Deterioration”**.

D-10. In accordance with **MCAPCO Regulations 1.5111 - “General Recordkeeping, Reporting and Monitoring Requirements”** and **2.0605 – “General Recordkeeping and Reporting Requirements”** the facility shall monitor and record the following operating parameters for the emission sources and control devices as listed below:

CONTROL DEVICE	OPERATING PARAMETER	PARAMETER RANGE	MINIMUM MONITORING FREQUENCY (Once per...)
Mechanical Collector (cyclones) (Wood Fired Boilers)	Pressure drop across collector	0.5 – 4 inches of H ₂ O	Month
	Moisture content of wood that is used as fuel for Wood Fired Boilers		Month
Electrostatic Precipitators	Primary and secondary voltages (currents and kilowatts)	<u>Primary:</u> VAC: 145 - 400 AAC: 3.5 - 29 <u>Secondary:</u> kVDC: 26 - 56 mADC: 13 - 163	Month
Emergency Generators	Number of hours each emergency generator operated		Month
40 CFR 63 Subpart ZZZZ emission sources	Refer to 40 CFR 63.10, 63.6625, 63.6635, 63.6655, 63.6660 and Condition and Limitation D-4 of this permit for specific monitoring and recordkeeping requirements related to 40 CFR 63 emission sources		Refer to 40 CFR 63.10, 63.6625, 63.6635, 63.6655 and 63.6660
40 CFR 63 Subpart JJJJJ emission sources	Refer to 40 CFR 63.10, 63.11205, 63.11225 and Condition and Limitation D-5 of this permit for specific monitoring and recordkeeping requirements related to 40 CFR 63 emission sources		Refer to 40 CFR 63.10, 63.11205 and 63.11225 Requirements include in part: <ul style="list-style-type: none"> • Prepare a biennial compliance certification report by March 1st (following completion of required tune-ups)

40 CFR 60 Subpart Dc emission sources	Refer to 40 CFR 60.7, 60.46c, 60.47c, 60.48c and Condition and Limitation D-6 of this permit for specific monitoring and recordkeeping requirements related to 40 CFR 60 emission sources	Refer to 40 CFR 60.7, 60.46c, 60.47c and 60.48c
40 CFR 60 Subpart IIII emission sources	Refer to 40 CFR 60.7, 60.4209, 60.4214 and Condition and Limitation D-7 of this permit for specific monitoring and recordkeeping requirements related to 40 CFR 60 emission sources	Refer to 40 CFR 60.7, 60.4209 and 60.4214

The facility shall maintain the above-specified operating records as well as any maintenance records for activity conducted on the equipment for a period of not less than 5 years, unless otherwise specified by the permit. The records shall be available for inspection by MCAQ personnel upon request.

D-11. The wood-fired boilers shall be operated concurrently with the associated control device(s) specified in this Permit to Construct/Operate except when:

- ▶ subject to the malfunction provisions contained in the **General Provisions of National Emission Standards for Hazardous Air Pollutants, Subpart A (40 CFR part 63.1 - 63.15)**; or,
- ▶ as specified in the **Subpart JJJJJJ** and during such times as allowed by **MCAPCO Regulation 2.0535**.

The facility shall be properly operated and maintained at all times in a manner that will effect an overall reduction in air pollution.

D-12. The facility shall, at its own expense and using the most recent versions of the performance test methods contained in 40 CFR Part 60 (Appendix A) or Part 63 or as approved by the Administrator of the USEPA or MCAQ, demonstrate compliance with the appropriate regulatory requirement as follows:

EMISSION SOURCE DESCRIPTION AND ID	DEMONSTRATE COMPLIANCE WITH...	SCHEDULED TESTING FREQUENCY
40 CFR 60 Subpart Dc emission sources	Refer to 40 CFR 60.8, 60.44c, 60.45c, 60.47c and Condition and Limitation D-6 of this permit for specific testing requirements related to 40 CFR 60 emission sources	Refer to 40 CFR 60.8 and 60.44c, 60.45c and 60.47c

All performance tests shall be made by, or under the direction of, a person qualified by training and/or experience in the field of air pollution testing. MCAQ shall be notified at least 30 days in advance of the proposed performance test so that it may have a representative present to observe the test at its option. The notification shall include a detailed description of the performance test procedures so that MCAQ may review and approve them. The final performance test results shall be submitted to MCAQ for review within 60 calendar days after completion of on-site testing. The performance test(s) specified in this condition do not preclude MCAQ from requesting performance testing for other emission sources or for other purposes as defined in **MCAPCO Regulation 1.5104 - "General Duties and Powers of the Director, With the Approval of the Board"**, and referenced in Condition and Limitation No. A-3 of this Permit.

D-13. The facility shall be operated in accordance with **MCAPCO Regulation 1.5111 - “General Recordkeeping: Reporting: Monitoring Requirements”**, **2.0605 – “General Recordkeeping and Reporting Requirements”**, and/or **2.0903 - “Recordkeeping: Reporting: Monitoring”** and **MCAPCO Regulation 1.5508 - “Permit Content”**, such that the following specific reports and/or notifications shall be submitted to MCAQ by the specified dates:

(1) NOTIFICATIONS TO MCAQ

POLLUTANT/ PARAMETER	NOTIFICATION REQUIREMENT	SUBMITTAL DATES
Performance test notification report	Detailed description of the proposed test procedures to be used on ES-8, ES-9, ES-10, and ES-18.	30 days prior to proposed test date
Emergency Generators	Emergency generator(s) operating for <u>more</u> than 500 hours for the calendar year, provide the anticipated number of operating hours and fuel usage for the remaining months of the calendar year.	15 days after exceedance
40 CFR 63 Subparts ZZZZ and JJJJJ emission sources	Refer to 40 CFR 63.9, 63.6645, 63.11225 and Limitation and Condition No. D-4 and D-5 of this permit for all specific notification requirements.	Refer to 40 CFR 63.9, 63.6645 and 63.11225
40 CFR 60 Subparts Dc and IIII emission sources	Refer to 40 CFR 60.7, 60.48c, 60.4214 and Limitation and Condition No. D-6 and D-7 of this permit for all specific notification requirements.	Refer to 40 CFR 60.7, 60.48c and 60.4214.

(2) REPORTS TO MCAQ

POLLUTANT/ PARAMETER	REPORTING REQUIREMENT	EMISSION PERIOD (For previous)	SUBMITTAL DATES (Postmarked by)
CO PM/PM ₁₀ /PM _{2.5} NO _x SO ₂ VOC HAP	A report of facility-wide emissions (in tons) emanating from the emission sources listed on this permit to include, at a minimum, the following information: 1. Emission calculations including all supporting documentation. (Calculations for previously submitted periods do not need to be re-submitted) 2. Quantity of fuel used by each fuel burning device 3. Total hours of operation for each boiler 4. Wood moisture content sampling report	Calendar year	April 30 of following year
Title V Monitoring Reports (MCAPCO 1.5508)	Submit a report, certified by a responsible company official, of all required monitoring parameters as found in Facility Condition and	6 months	April 30 October 30

	Limitation No. A-16 and Emission Source Condition and Limitation No. D-10. The report should include a discussion of monitoring excursions		
Performance Test Report	Results of Performance Test Conducted	Not applicable	Within 60 days after test
Emergency Generators	Number of hours operated and amount of fuel used for each emergency generator for the calendar year	April 30 of the following year	
40 CFR 60 Subpart III emission sources.	Refer to 40 CFR 60.7, 60.4214 and Limitation and Condition No. D-7 of this permit for all specific reporting requirements	Refer to 40 CFR 60.7 and 60.4214	
40 CFR 60 Subpart Dc emission sources.	Refer to 40 CFR 60.7, 60.48c and Limitation and Condition No. D-6 of this permit for all specific reporting requirements	Refer to 40 CFR 60.7 and 60.48c Requirements include: <ul style="list-style-type: none"> • Reports of semiannual fuel supplier certification for emission period January 1 – June 30 are due July 30th of each calendar year. Reports for emission period July 1 – December 31 are due January 30th of each calendar year. 	
40 CFR 63 Subpart ZZZZ emission sources	Refer to 40 CFR 63.10, 63.6650 and Limitation and Condition No. D-4 of this permit for all specific reporting requirements	Refer to 40 CFR 63.10 and 63.6650	
40 CFR 63 Subpart JJJJJ emission sources	Refer to 40 CFR 63.10, 63.11225 and Limitation and Condition No. D-5 of this permit for all specific reporting requirements	Refer to 40 CFR 63.10 and 63.11225	

(3) COMPLIANCE CERTIFICATION TO BOTH EPA AND MCAQ

PARAMETER	REPORTING REQUIREMENT	EMISSION PERIOD (For previous)	SUBMITTAL DATE (Postmarked by)
Certification by Responsible Official	Identify each term and condition of the Permit and the facility's compliance status for each as described in Condition and Limitation No. A-33.	Calendar year	April 30 of the following year

E. LOCAL ONLY REQUIREMENTS

Only Mecklenburg County Air Quality has the authority to enforce the terms, conditions and limitations contained in this section. The EPA does not have the authority to enforce the terms, conditions and limitations contained in this Section.

E-1. Permit No. 15-02V-132 shall be void upon issuance of this Permit.

F. FEDERAL ONLY REQUIREMENTS

Only the EPA has the authority to enforce the terms, conditions, and limitations contained in this section. Mecklenburg County Air Quality does not have the authority to enforce the terms, conditions, and limitations contained in this Section.

- THERE ARE NO FEDERAL ONLY REQUIREMENTS FOR THIS PERMIT -



APPENDIX A: TOXIC AIR POLLUTANT REVIEW

Facility Name: Metrolina Greenhouse, Inc.

Facility Address: 16400 Huntersville-Concord Rd., Huntersville, NC 28078

Date Issued:

The facility has not made a modification, as defined in MCAPCO Regulation 1.5706 – “Modifications”, since May 1, 1990. Therefore, a review of toxic air pollutant emissions has not been required under MCAPCO Section 1.5700 - “Toxic Air Pollutant Procedures.”

ATTACHMENT 1

COMMONLY USED ABBREVIATIONS AND ACRONYMS

BACT	Best Available Control Technology
Btu	British Thermal Unit
CAAA	Clean Air Act Amendments
CAM	Compliance Assurance Monitoring
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
CO	Carbon Monoxide
EPA	Environmental Protection Agency
HAP	Hazardous Air Pollutant
HCFC	Halogenated ChloroFluoroCarbon
MACT	Maximum Achievable Control Technology
MCAPCO	Mecklenburg County Air Pollution Control Ordinance
MCAQ	Mecklenburg County Air Quality
million Btu	Million British Thermal Units
MVAC	Motor Vehicle Air Conditioner
MW	Megawatt
NCGS	North Carolina General Statute
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standards
NSR	New Source Review
PM	Particulate Matter
PM ₁₀	Particulate Matter less than 10 micrometers
PM _{2.5}	Particulate Matter less than 2.5 micrometers
PSD	Prevention of Significant Deterioration
RACT	Reasonable Available Control Technology
RMP	Risk Management Plan
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO ₂	Sulfur Dioxide
TAP	Toxic Air Pollutant
VOC	Volatile Organic Compound