

APPROVED DOCUMENT
Division of Waste Management
Solid Waste Section
Date March 19, 2012 By LY Frost



| | | |
|------------|----------------|-------|
| Permit No. | Scan Date | DIN |
| 6009 | March 13, 2012 | 16290 |

RECEIVED
March 9, 2012
Solid Waste Section
Asheville Regional Office

AIR QUALITY TITLE V PERMIT

| Permit No. | Effective Date | Expiration Date | Modification Date(s) | Replaces Permit No(s) |
|------------|------------------|------------------|----------------------|-----------------------|
| 10-02V-099 | December 6, 2010 | December 6, 2015 | March 11, 2011 | 10-01V-099 |

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: MNC Holdings, LLC
Site Name (if different):

Permitted Facility Location: 3250 Campus Ridge Road
City, State, Zip: Matthews, North Carolina 28105

Facility Mailing Address: P.O, Box 12119
City, State, Zip: Charlotte, North Carolina 28220

Primary SIC Code: 4953

Renewal Application Due: December 6, 2014

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 under **MCAPCO Regulation 1.5231 - “Air Quality Fees”**.

A-8. Inspection and Entry

In accordance with **MCAPCO Regulation 1.5508 - “Permit Content” Paragraph (I)**, 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 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, at reasonable times and using reasonable safety practices, 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 under **MCAPCO Article 2.0000** or Title I of the federal Clean Air Act;
2. the changes do not cause the allowable emissions under the permit to be exceeded;
3. the Permittee notifies the Director and EPA with written notification 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, or
2. the change is not covered under any applicable requirement.

c. Emissions Trading:

To the extent that emissions trading is allowed under **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,
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. violations of conditions contained in the permit have occurred;
- 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 his authorized representative to enter the premises where a source of emissions is located, have access to records required to be kept under 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 under **40 CFR Part 70.7 Paragraph (f) or (g)**.

A-13. Permit Renewal and Expiration

In accordance with **MCAPCO Regulation 1.5513 - “Permit Renewal and Expiration”**, permit expiration terminates the facility’s right to operate unless a complete renewal application has been submitted at least nine months before the date of permit expiration. To ensure the application is complete and timely, 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 complete and timely 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 by the next business day; malfunctions, emergencies, and other upset conditions 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”**.

In accordance with **MCAPCO Regulation 2.0535**, the Director shall be notified by 9:00 am of the Department’s next business day after the permittee becomes aware of malfunctions, emergencies and upset conditions that result in excess emissions lasting longer than four (4) hours.

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 under **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 reasonable 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
700 North Tryon Street, Suite 205
Charlotte, North Carolina 28202-2236

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 (e)**, 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, or 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 method(s) 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 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 | and | Environmental Protection Agency |
| Mecklenburg County Air Quality | | Atlanta Federal Center |
| 700 North Tryon Street, Suite 205 | | 61 Forsyth Street, SW |
| Charlotte, North Carolina 28202-2236 | | Atlanta Georgia 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, the statement 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 under **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 under 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 permit.

-THERE ARE NO FEDERAL ONLY REQUIREMENTS FOR THIS PERMIT -

MNC Holdings, LLC.

Permit to Construct/Operate No. 10-02V-099

Facility and Emission Source Conditions and Limitations - Page 20

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-1 | Incinerator One (1) DISC International Model No. 1500 AR-T2-A The primary chamber and secondary chamber each has a 10 million Btu/hr burner firing natural gas | I=1988 M=1997 M=2004 | CD-1A CD-1B | Control Devices: Dry Scrubber ID No. CD-1A, using hydrated lime and activated carbon as the scrubbing agent connected in series with a Fabric Filter ID No. CD-1B -Consumat Systems, Inc. Model No. DS-4680 -14,401 acfm (inlet air flow) 3.08:1 ft/min air: cloth ratio | D-3, D-5, D-6 | E-1, E-2, E-3, E-4, E-5, E-6, E-7, E-8, E-9, E-10, E-11, E-12 | F-1, F-2, F-3, F-4, F-5, F-6, F-7, F-8 F-9, F-10, F-11, F-12, F-13, F-14, F-15, F-16, F-17 |

| | | | | | | | |
|--------|--|--------|------|--|--------------------|------|------|
| ES-4 | <p>Lime Storage Silo</p> <ul style="list-style-type: none"> containing hydrated lime for acid gas, mercury and dioxin emission control 3000 ft³ (37.5 tons) max capacity | I=1997 | CD-4 | <p>Control Device:</p> <p>Fabric Filter ID No. CD-4 Consumat System Model No. RS-3000-.3</p> <p>-400 acfm (inlet air flow)</p> <p>-2.81:1 ft/min air: cloth ratio</p> <p>-95% efficiency for PM</p> | D-1, D-4, D-5, D-6 | E-1 | None |
| ES-5 | 80 kW diesel-powered emergency generator | I=1990 | None | None | D-2, D-6 | E-1 | None |
| ES-Ins | One (1) 12kW gasoline-fueled welder | | None | None | None | None | None |
| | One (1) gasoline-fueled pressure washer | | None | None | None | None | None |

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 |
| None | | | | | | |

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

D-1. The facility shall be operated in accordance with **MCAPCO Regulation 2.0515 - "Particulates from Miscellaneous Industrial Processes"**, such that particulate emissions from any stack, vent or outlet shall not exceed the allowable emission rate. The allowable emission rate shall be determined using the appropriate formula below:

| |
|---|
| $E = 4.10 * P^{0.67}$ For process weight rates greater than 30 tons/hr the following formula shall be used: $E = 55.0 * P^{0.11} - 40$ |
| E = maximum allowable emission rate for particulate matter in lbs/hr P = process rate in tons/hr |

D-2. 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-3. The facility shall be operated in accordance with 40 CFR Part 64 – “Compliance Assurance Monitoring”. Compliance with this federal standards shall be achieved by complying with the standards and requirements listed in E-4 of this permit.

D-4. The storage silo shall be operated concurrently with the associated control devices specified in this Permit to Construct/Operate except when:

- ▶ subject to the provisions of **MCAPCO Regulation 2.0535 - “Excess Emissions Reporting and Malfunctions”**; or,
- ▶ during such times as allowed by **MCAPCO Regulation 2.0515 - “Particulates from Miscellaneous Industrial Processes”**.

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

D-5. 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 the incinerator (ES-1) | 30 days prior to proposed test date |
| Stack/fan configuration | Written notification of change in stack/fan configuration that decreases dispersion characteristics (e.g. lower air flow rate). | Within 48 hours of changing stack/fan configuration |

(2) REPORTS TO MCAQ

| POLLUTANT/ PARAMETER | REPORTING REQUIREMENT* | EMISSION PERIOD (For previous) | SUBMITTAL DATES (Postmarked by) |
|---|---|---|--|
| PM 10 TSP SO ₂ NO _x CO VOC's HAPs TAPs | 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. The total hours the incinerator operated 3. The total weight (tons) processed by the incinerator 4. The total weight (tons) dispensed from the silo 5. A completed "MCAQ Fuel Usage Reporting Form" for the incinerator | Calendar year | April 30 |
| 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 Limitation No. A-16, 40 CFR 60.58c, and as follows: 1. The values for the site-specific operating parameters established pursuant to §60.56c(d); 2. The highest maximum operating parameter and the lowest minimum operating parameter, as applicable, for each operating parameter recorded for the period being reported, pursuant to §60.56c(d); 3. The highest maximum operating parameter and the lowest minimum operating parameter, as applicable for each operating parameter recorded pursuant to §60.56c(d) for the calendar year preceding the period being reported in order to provide the Administrator with a summary of the performance of the affected facility over a 2-year period; 4. Identification of calendar days for which data on emission rates or operating parameters specified in this section have not been obtained, with an identification of the emission rates or operating parameters not measured, reasons for not obtaining the data, and a description of corrective actions taken; | 6 months | April 30 October 30 |

| | | | |
|-------------------------|--|----------------|---------------------------|
| | <p>5. Identification of calendar days, times and durations of malfunctions, and a description of the malfunction and the corrective action taken;</p> <p>6. Identification of calendar days for which data on emission rates or operating parameters exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of correction actions taken;</p> <p>7. Any information recorded under paragraphs (4) through (6) for the calendar year preceding the year being reported, in order to provide the Administrator with a summary of the performance of the affected facility over a 2-year period.</p> <p>8. If no exceedances or malfunctions were reported under paragraphs (4) through (6) for the calendar year being reported, a statement that no exceedances occurred during the reporting.</p> <p>9. Any use of the bypass stack, the duration, reason for malfunction and corrective action taken.</p> <p>The report should include a discussion of monitoring excursions</p> | | |
| Performance Test Report | Results of Performance Test Conducted | Not applicable | Within 60 days after test |

(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 A-33. | Calendar year | April 30 of the following year |

D-6. Upon effective date of EPA's approval of the Mecklenburg County's implementation plan for 40 CFR Part 62, the condition Nos. E-2 through E-7 will be both Federally and Locally enforceable.

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. 10-01V-099 shall be void upon issuance of this Permit.

E-2. The facility is subject to the requirements of **MCAPCO Regulation 2.1206 – “Hospital, Medical and Infectious Waste Incinerators”**. The facility shall be operated in accordance with the emission or ambient standards listed in MCAPCO Regulation 2.1206 Paragraph (c) - “Emission Standards” such that the allowable emission rate (per incinerator) or ambient air quality concentrations (facility-wide) shall not exceed, as applicable, the following:

| Allowable Emissions | | |
|---------------------|---|---------------------------------|
| Pollutant | Emission Rate | Applicable Regulation |
| Particulate Matter | 34 mg/dscm corrected to 7% O ₂ | MCAPCO Regulation 2.1206(c)(2) |
| Visible Emissions | 10% opacity (6-minute block average) | MCAPCO Regulation 2.1206(c)(3) |
| Sulfur Dioxide | 55 ppmv corrected to 7% O ₂ (dry basis) | MCAPCO Regulation 2.1206(c)(4) |
| Nitrogen Oxide | 250 ppmv corrected to 7% O ₂ (dry basis) | MCAPCO Regulation 2.1206(c)(5) |
| Carbon Monoxide | 40 ppmv corrected to 7% O ₂ (dry basis) | MCAPCO Regulation 2.1206(c)(6) |
| Odor | | MCAPCO Regulation 1.5110 |
| Hydrogen Chloride | reduced 93% by weight or volume, or 100 ppmv corrected to 7% O ₂ (dry basis), whichever is less stringent (1-hour average) | MCAPCO Regulation 2.1206(c)(8) |
| Mercury Emissions | reduced 85% by weight or 0.55 mg/dscm corrected to 7% O ₂ , whichever is less stringent (1-hour average) | MCAPCO Regulation 2.1206(c)(9) |
| Lead Emissions | reduced 70% by weight or 1.2 mg/dscm corrected to 7% whichever is less stringent | MCAPCO Regulation 2.1206(c)(10) |
| Cadmium Emissions | reduced 65% by weight or 0.16 mg/dscm corrected to 7% O ₂ , whichever is less stringent | MCAPCO Regulation 2.1206(c)(11) |
| Dioxins and Furans | 125 nanograms/dscm total dioxins and furans corrected to 7% O ₂ or 2.3 nanograms/dscm (total equivalency) corrected to 7% O ₂ | MCAPCO Regulation 2.1206(c)(12) |

| Ambient Standards | | |
|-----------------------------|--|---------------------------------|
| Pollutant | Concentration | Applicable Regulation |
| Arsenic and Compounds | 2.3×10^{-7} mg/m ³ | MCAPCO Regulation 2.1206(c)(14) |
| Beryllium and Compounds | 4.1×10^{-6} mg/m ³ | MCAPCO Regulation 2.1206(c)(14) |
| Cadmium and Compounds | 5.5×10^{-6} mg/m ³ | MCAPCO Regulation 2.1206(c)(14) |
| Chromium (VI) and Compounds | 8.3×10^{-8} mg/m ³ | MCAPCO Regulation 2.1206(c)(14) |

- E-3. The facility shall be operated in accordance with MCAPCO Regulation 2.1206 Paragraph (d) – “Operational Standards”:
- (a) The facility shall comply with the compliance and performance testing requirements of 40 CFR 60.56c.
 - (b) The facility shall establish the maximum and minimum operation parameters during the initial performance test to determine compliance with the emission limits.
 - (c) Except as provided in 40 CFR 60.56c (h):
 - (1) operation of the affected facility above the maximum fabric filter inlet temperature, above the maximum charge rate, and below the minimum dioxin/furan sorbent rate (each measured on a 3-hour rolling average) simultaneously shall constitute a violation of the dioxin/furan emission limit;
 - (2) operation of the affected facility above the maximum charge rate and below the minimum HCl sorbent flow rate (each measured on a 3-hour rolling average) simultaneously shall constitute a violation of the HCl emission limit;
 - (3) operation of the affected facility above the maximum charge rate and below the minimum Hg sorbent flow rate (each measured on a 3-hour rolling) average simultaneously shall constitute a violation of the Hg emission limit;
 - (4) operation of HMIWI above the maximum charge rate and below the minimum secondary temperature (each measured on a 3-hour rolling) average simultaneously shall constitute a violation of the PM, CO and dioxin/furan emission limits; and
 - (5) use of the bypass stack (except during startup, shutdown, or malfunction) shall constitute a violation of the PM, dioxin/furan, HCl, Pb, Cd and Hg emission limits.
Note: The requirements of Condition and Limitation No. E-3 (c)(5) are superseded by Condition and Limitation No. E-7 (e) and (f). Use of the bypass including during periods of startup, shutdown, or malfunction shall constitute a violation of the PM, dioxin/furan, HCl, Pb, Cd and Hg emission limits.
 - (d) The owner or operator may conduct a repeat performance test within 30 days of violation of applicable operating parameters to demonstrate that the HMIWI is not in violation of the applicable emission limits. Repeat performance tests conducted pursuant to this paragraph shall be conducted using the identical operating parameters that indicated a violation.

- E-4. The facility shall be operated in accordance with MCAPCO Regulation 2.1206 Paragraph (f) – “Monitoring, Recordkeeping, and Reporting”:
- (a) The owner or operator shall comply with the monitoring requirements of 40 CFR 60.57c.
 - (b) The owner or operator shall install, calibrate (to manufacturers’ specifications), maintain and operate devices for monitoring the following operating parameters such that these devices measure and record values for these operating parameters at the frequencies indicated in the table below at all times except during periods of startup and shutdown:

| Equipment | Operating Parameter | Parameter Range | Minimum Frequency | |
|---|--|---|-------------------|----------------|
| | | | Data Measurement | Data Recording |
| Incinerator (ES-1) Dry Injection Scrubber (CD-1A) Fabric Filter Systems (CD-1B) | primary chamber temperature | $\geq 1200^{\circ}\text{F}$ | continuous | continuous |
| | minimum secondary chamber temperature | As established by the most recent performance test (see Attachment 2) | continuous | continuous |
| | carbon monoxide concentration at the stack | < 40 ppmv, corrected to 7% O ₂ | continuous | continuous |
| | O ₂ concentration at the stack | 13 – 19% | continuous | continuous |
| | maximum charge rate | As established by the most recent performance test (see Attachment 2) | continuous | 1 x hour |
| | maximum fabric filter inlet temperature | As established by the most recent performance test (see Attachment 2) | continuous | 1 x minute |
| | minimum sorbent flow rate (HCl, dioxin/furan, mercury) | As established by the most recent performance test (see Attachment 2) | hourly | 1 x hour |
| | bypass stack use | Closed | continuous | continuous |
| | pressure drop across the baghouse (CD-1B) | 1 – 8 in. w.c. | continuous | continuous |
| | Static pressure for the primary chamber (ES-1) | ≤ -0.01 in. w.c. | continuous | continuous |
| | Refer to 40 CFR 60.58c for specific monitoring requirements as listed in MCAPCO Regulation 2.1206 | | | |

- (c) The owner or operator shall install, calibrate (to manufacturers' specifications), maintain, and operate a device or method for measuring the use of the bypass stack including date, time, and duration.
- (d) The continuous carbon monoxide, and oxygen monitor shall be equipped with a direct reading gauge and continuous recorder. The monitor shall be approved in advance by MCAQ and installed, calibrated, operated and maintained in accordance with 40 CFR Part 60, Appendix B – "Performance Specifications" and 40 CFR Part 60, Appendix F – "Quality Assurance Procedures".
- (e) In accordance with 40 CFR 60.56c(e), the owner or operator shall obtain monitoring data at all times during HMIWI operation except during periods of monitoring equipment malfunction, calibration, or repair. At a minimum, valid monitoring data shall be obtained for 75 percent of the operating hours per day and for 90 percent of the operating days per calendar quarter that the affected facility is combusting hospital/waste and/or medical/infectious waste.
- (f) The owner or operator shall comply with the reporting and recordkeeping requirements listed in 40 CFR 60.38e.
*Portions of this Section establish the following reporting and recordkeeping requirements for large affected facilities:
The owner or operator of an affected facility shall maintain the following information (as applicable) for a period of at least 5 years:*
 - (1) *Calendar date of each record;*
 - (2) *Records of the monitored operating parameters;*
 - (3) *Identification of calendar days for which data on emission rates or operating parameters specified in this section have not been obtained, with an identification of the emission rates or operating parameters not measured, reasons for not obtaining the data, and a description of corrective actions taken;*
 - (4) *Identification of calendar days, times and durations of malfunctions, a description of the malfunction and the corrective action taken;*
 - (5) *Identification of calendar days for which data on emission rates or parameters exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of corrective actions taken;*
 - (6) *The results of the initial, annual and any subsequent performance tests conducted to determine compliance with the emission limits and/or to establish operating parameters, as applicable; and*
 - (7) *Records of calibration of any monitoring devices and required under §60.57c(a), (b), and (c).*
- (g) Waste Management Guidelines. The owner or operator shall comply with the requirements of 40 CFR 60.55c for the preparation and submittal of a waste management plan.

- E-5. The facility shall be operated in accordance with MCAPCO Regulation 2.1206 Paragraph (h) – "Operator Training and Certification":
- (a) The owner or operator shall not allow the HMIWI to operate at any time unless a fully trained and qualified HMIWI operator is accessible, either at the facility or available within one hour. The trained and qualified HMIWI operator may operate the HMIWI directly or be the direct supervisor of one or more HMIWI operators.
Note: The requirements of Condition and Limitation No. E-5 (a) are superseded by Condition and Limitation No. E-7 (d). The owner or operator shall not allow the HMIWI to operate at any time unless a fully trained and qualified HMIWI operator is accessible on site.
 - (b) Operator training and qualification shall be obtained by completing the requirements of 40 CFR 60.53c(c) through (g).
 - (c) The owner or operator shall maintain, at the facility, all items required by 40 CFR 60.53c(h)(1) through (h)(10).
 - (d) The owner or operator shall establish a program for reviewing the information required in subparagraph (c) of this condition annually with each HMIWI operator.

- (e) The information required by subparagraph (c) of this condition shall be kept in a readily accessible location for all HMIWI operators. This information along with records of training shall be available for inspection by Department personnel upon request.
- (f) The owner or operator shall comply with the reporting and recordkeeping requirements listed in 40 CFR 60.58c(b), (c), (d), (e), and (f) excluding 40 CFR 60.58c(b)(2)(ii) and (b)(7).

Portions of this Section establish the following reporting and recordkeeping requirements for large affected facilities:

- (1) Recording showing the names of HMIWI operators who have completed review of the information in §60.53c(h) as required by §60.53c(i) including the date of the initial review and all subsequent annual reviews;*
- (2) Records showing the names of the HMIWI operators who have completed the operator training requirements, including documentation of training and the dates of the training; and*
- (3) Records showing the names of the HMIWI operators who have met the criteria for qualification under §60.53c and the dates of their qualification.*

E-6. The facility shall be operated in accordance with MCAPCO Regulation 2.1206 Paragraph (e) – “Test Methods and Procedures”. The facility shall, at its own expense and using the most recent versions of the test methods and procedures described in MCAPCO Section 2.2600- “Source Testing” and in 40 CFR Part 60 Appendix A and 40 CFR Part 61 Appendix B, demonstrate compliance with emission standards listed in MCAPCO 2.1206(c) as follows:

| Emission Source | Scheduled Testing Frequency | Applicable Regulation |
|------------------------|--|---|
| Incinerators (ES-1) | <p>Initial Test: within 180 days after initial startup of the emission source or following any modification to the emission source or control device.</p> <p>Annual Opacity Test: within 12 months following the previous test.</p> <p>Annual PM, CO, HCl, Mercury, and Dioxin/furan Tests: within 12 months following the previous tests (may be adjusted to once every three years if compliance is demonstrated by previous three consecutive tests).</p> <p>Additional Tests: every 5 years in conjunction with the request for renewal applications for this Title V permit. The test shall be completed prior to submittal of the renewal application.</p> <p>Elective testing in the event of a violation: within 30 days of violation of applicable operating parameters to demonstrate that the HMIWI is not in violation of the applicable emission limits.</p> | MCAPCO 2.1206(d)(3) (refers to 40 CFR 60.56c) |

In accordance with 40 CFR 60.56c(d), the owner or operator shall establish the appropriate the minimum and maximum operating parameters indicated in Emission Source Condition and Limitation E-3 of this permit as site specific operating parameters during performance testing to determine compliance with emission limits.

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 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 test procedures so that MCAQ may review and approve them. The final 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 Facility Condition and Limitation No. A-3 of this Permit.

- E-7. The facility shall be operated in accordance with **MCAPCO Regulation 1.5104 – “General Duties and Powers of the Director, with the Approval of the Board”**. To protect the public health and environment, the facility shall be constructed, maintained and operated in compliance with the following conditions:

Operational Standards

- (a) The retention time in the secondary combustion zone shall be a minimum of two (2) seconds.
- (b) The waste shall not be charged into the incinerator until the secondary chamber attains the proper minimum temperature determined by the latest performance test.
- (c) Upon secondary plume formation which travels beyond property boundaries at less than stack height and/or which creates a nuisance as determined by MCAQ, the facility shall immediately take whatever steps necessary to eliminate the secondary plume.
- (d) The owner or operator shall not allow the HMIWI to operate at any time unless a fully trained and qualified HMIWI operator is accessible on site.
- (e) The use of the bypass stack shall constitute a violation of the PM, dioxin/furan, HCl, Pb, Cd and Hg emission limits.
- (f) Emission limits shall apply at all times.
- (g) The waste shall not be charged into the incinerator if the pressure in the primary chamber is higher (i.e. more positive) than **-0.01** inches H₂O. The facility shall keep the records when this situation happens.
- (h) The ash storage and handling system shall be managed to prevent release from storage or containment vessels (e.g. waste storage bins shall be covered unless being loaded)
- (i) The facility shall perform a performance test and demonstrate compliance with all requirements within 180 days after issuance of this permit, i.e., by June 4, 2011.
- (j) Incineration of wastes shall be limited to the following:
 - i. Items and materials that are defined as hospital, medical, and infectious waste under MCAPCO Regulation 2.1206 – “Hospital, Medical, and Infectious Waste Incinerators” or 40 CFR 60.51c.
 - ii. International garbage (i.e. Animal and Plant Health Inspection Services Waste) defined as waste material derived in whole or in part from fruits, vegetables, meats, or other plant or animal (including poultry) material, and other refuse of any character whatsoever that has been associated with any such material aboard any means of conveyance and includes food scraps, table refuse, galley refuse, food wrappers or packaging materials, and other waste material from stores, food preparation areas, passengers’ or crews’ quarters, dining rooms, or any other areas on vessels, aircraft, or other means of conveyances.
 - iii. Non-hazardous pharmaceuticals.
 - iv. Expired/off-specification medical devices.
 - v. Contaminated, potentially infectious waste, which may include food product.
 - vi. US Federal Reserve currency.
 - vii. Non-hazardous controlled substances captured by law enforcement agencies.

Notes:

1. *The requirements of Condition and Limitation No. E-7 (e) and (f) supersede the requirements of Condition and Limitation No. E-3 (c)(5).*
2. *The requirements of Condition and Limitation No. E-7 (d) supersede the requirements of Condition and Limitation No. E-5 (a).*

Monitoring Requirements

- (k) The facility shall install an **Oxygen continuous emission monitor within 180 days after issuance of this permit**, i.e., by June 4, 2011 and comply with the requirements listed in condition E-4.
- (l) The facility shall install **stack exit temperature monitoring devices on Stack 1 and Stack 2 within 180 days after issuance of this permit**, i.e., by June 4, 2011, and continuously monitor and record stack exit temperature to ensure compliance with the air dispersion modeling parameters listed in condition E-10.
- (m) The facility shall perform and record all semi-annual comprehensive equipment inspections. The inspection shall include:
 - (1) Inspect air pollution control device(s) for proper operation, if applicable;
 - (2) Ensure proper calibration of thermocouples, sorbent feed systems, and any other monitoring equipment; and
 - (3) Generally observe that the equipment is maintained in good operating condition.All necessary repairs shall be completed as soon as possible, but no longer than 10 days following an air pollution control device inspection, unless the owner or operator obtains written approval from MCAQ establishing a date whereby all necessary repairs of the designated facility shall be completed. The inspection report shall be included as part of the Title V semi-annual monitoring report listed in condition and limitation D-5.
- (n) The facility shall submit the revised **waste management plan to MCAQ within 180 days after** issuance of this permit, i.e., by June 4, 2011, to identify both the feasibility and the approach to separate certain components of solid waste from the health care waste stream in order to reduce the amount of toxic emissions from incinerated waste. The facility shall conduct training and education programs in waste segregation for each of the company's waste generator clients and ensure that each client prepares its own waste management plan that can reduce the amount of toxic emissions from incinerated waste. The American Hospital Association publication entitled "An Ounce of Prevention: Waste Reduction Strategies for Health Care Facilities" (incorporated by reference, *see* 40 CFR §60.17) shall be considered in the development of the waste management plan
- (o) Visible emission observations for the incinerator stack, and the ash storage and handling shall be conducted by a qualified observer at least once per day and for at least three 6-minute periods when an incinerator is operating. These observations shall be taken in accordance with EPA Reference Method 9 – "Visual Determination of the Opacity of Emissions from Stationary Sources", and Method 22 – "Visual determination of fugitive emissions from material sources and smoke emissions from flares" as found in 40 CFR 60 Appendix A. Records shall be maintained for all visible emission observations. The facility shall provide evidence indicating proof of the current visible observer emission certification.
- (p) Any 6-minute average visible emissions from the incinerator stack that is in excess of the emission limit specified in condition and limitation E-2 of this permit, and any visible emissions from the ash storage and handling that is over 1 minute periods during observations each day shall be reported semi-annually as part of the Title V monitoring report listed in condition and limitation D-5.

- (q) The facility shall make available, upon request by MCAQ, such records as may be necessary to determine the compliance. All records shall be kept on site for a period of at least five years and be made available to MCAQ upon request.

Compliance Plan

- (r) The facility shall submit a plan with detailed schedules to comply with the October 6, 2009 revisions to 40 CFR 60 Subpart Ce within 180 days after issuance of this permit, i.e., by June 4, 2011. The waste shall not be charged if the facility cannot comply with the revised requirements by the final compliance date listed in the plan or the revised MCAPCO, whichever comes earlier until compliance is demonstrated.

- E-8. The facility shall be operated in accordance with MCAPCO Regulation 2.1206 Paragraph (g) – “Excess Emissions and Start-up and Shut-down”:
- (a) Except when subject to the malfunction provisions of MCAPCO Regulation 2.0535 – “Excess Emissions Reporting and Malfunctions” and during such times allowed by the emission standards listed in MCAPCO Regulation 2.1206 – “Hospital, Medical, and Infectious Waste Incinerators”, and this permit, the incinerators shall be operated concurrently with the associated control devices specified in this Permit to Construct/Operate.
- (b) Shutdown shall commence no less than two (2) hours after the last charge to the incinerator (40 CFR 60.51 c).
- E-9. Pursuant to 60.56c(a), the emission limits apply at all times except during periods of startup, shutdown or malfunction, provided that no hospital, medical, or infectious waste is charged to the incinerator during startup, shutdown, or malfunction.
- E-10. In accordance with **MCAPCO Regulations 1.5711 - “Emission Rates Requiring a Permit”** and/or **2.1104 - “Toxic Air Pollutant Guidelines”**, the facility shall not emit any of the following toxic air pollutants in such quantities that may cause or contribute beyond the premises to any significant ambient air concentration that may adversely affect human health:
- Arsenic
 - Beryllium
 - Cadmium
 - Chlorine
 - Chromium VI
 - Hydrogen Chloride
 - Hexachlorodibenzo-p-dioxin
 - Hydrogen Fluoride
 - Manganese
 - Mercury
 - Nickel
 - Polychlorinated biphenyls
 - Tetrachlorodibenzo-p-dioxins

Trichloroethylene
Trichlorotrifluoroethane

To comply with these requirements, the facility shall be operated in accordance with the following parameters of the air dispersion modeling demonstration:

| | | |
|--|---|------------------|
| Arsenic emission rate | ≤ | 7.0 lbs/yr |
| Beryllium emission rate | ≤ | 113.9 lbs/yr |
| Cadmium emission rate | ≤ | 157.7 lbs/yr |
| Chlorine emission rate | ≤ | 5.5 lbs/hr |
| Chlorine emission rate | ≤ | 130.8 lbs/day |
| Chromium VI emission rate | ≤ | 2.5 lbs/yr |
| Hydrogen Chloride emission rate | ≤ | 111.0 lbs/hr |
| Hexachlorodibenzo-p-Dioxin emission rate | ≤ | 2.2 lbs/yr |
| Hydrogen Fluoride emission rate | ≤ | 39.0 lbs/hr |
| Hydrogen Fluoride emission rate | ≤ | 408.0 lbs/day |
| Manganese emission rate | ≤ | 408.0 lbs/day |
| Mercury emission rate | ≤ | 7.9 lbs/day |
| Nickel emission rate | ≤ | 79.2 lbs/day |
| Polychlorinated biphenyls emission rate | ≤ | 2452.8 lbs/yr |
| Tetrachlorodibenzo-p-dioxins emission rate | ≤ | 0.09 lbs/yr |
| Trichloroethylene | ≤ | 1,708,200 lbs/yr |
| Trichlorotrifluoroethane emission rate | ≤ | 151,475 lbs/hr |

| | |
|------------------------|---|
| Stack #1 | |
| Stack height | 20.1m (65.94 ft) |
| Stack diameter | 0.69 m (2.26ft) |
| Stack orientation | Vertical having no raincap |
| Stack exit temperature | $\geq 416.5^{\circ}\text{K}$ (289.99°F) |
| Stack exit velocity | ≥ 14.9 m/sec (2933 ft/min) |
| Stack #2 | |
| Stack height | 20.1m (65.94 ft) |
| Stack diameter | 0.69 m (2.26ft) |
| Stack orientation | Vertical having no raincap |
| Stack exit temperature | $\geq 346.5^{\circ}\text{K}$ (164°F) |
| Stack exit velocity | ≥ 9.8 m/sec (1923.20 ft/min) |

The facility shall continuously monitor and record stack exit temperature within 180 days after issuance of this permit, i.e., by June 4, 2011. Upon written request from MCAQ, the facility shall verify compliance with all other specified modeling parameters and operating conditions.

- E-11. In accordance with **MCAPCO Regulations 1.5711 - “Emission Rates Requiring a Permit”** and/or **2.1104 - “Toxic Air Pollutant Guidelines”**, **MCAPCO Regulation 2.0501 – “Compliance with Emission Control Standards”**, and referenced in Facility Condition and Limitation B-5 of this Permit, the facility will be required to demonstrate, during the next performance test required by this permit, that it does not emit any of the following toxic air pollutants in such quantities that may cause or contribute beyond the premises to any significant ambient air concentration that may adversely affect human health: perchloroethylene and chlorine.
- E-12. On or before the date specified in MCAPCO, or on or before the date 3 years after approval of the State plan to implement the October 6, 2009 revisions to 40 CFR 60 Subpart Ce, but no later than October 6, 2014, the facility shall be operated in accordance with the following revised emission guidelines.

| Allowable Emissions | |
|---------------------|--|
| Pollutant | Emission Rate |
| Particulate Matter | 25 mg/dscm corrected to 7% O ₂ |
| Visible Emissions | 6% opacity (6-minute block average) |
| Sulfur Dioxide | 9.0 ppmv corrected to 7% O ₂ (dry basis) |
| Nitrogen Oxide | 140 ppmv corrected to 7% O ₂ (dry basis) |
| Carbon Monoxide | 11 ppmv corrected to 7% O ₂ (dry basis) |
| Odor | |
| Hydrogen Chloride | 6.6 ppmv corrected to 7% O ₂ (dry basis) |
| Mercury Emissions | 0.018 mg/dscm corrected to 7% O ₂ (dry basis) |
| Lead Emissions | 0.036 mg/dscm corrected to 7% O ₂ (dry basis) |
| Cadmium Emissions | 0.0092 mg/dscm corrected to 7% O ₂ (dry basis) |
| Dioxins and Furans | 9.3 ng/dscm total dioxins and furans corrected to 7% O ₂ (dry basis) 0.054 ng/dscm (total equivalency) corrected to 7% O ₂ (dry basis) |

F. FEDERAL ONLY REQUIREMENTS

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

- F-1. The facility is subject to the requirements of 40 CFR Part 62, Subpart HHH Federal Plan Requirements for Hospital/Medical/Infectious Waste Incinerators. The facility shall be operated in accordance with the emission or ambient standards listed in 40 CFR Part 62, Subpart HHH Table 1 Emission Limits for Small Rural, Small, Medium, and Large HMIWI such that the allowable emission rate (per incinerator) or ambient air quality concentrations (facility-wide) shall not exceed, as applicable, the following:

| |
|----------------------------|
| Allowable Emissions |
|----------------------------|

| Pollutant | Emission Rate | Applicable Regulation |
|--------------------|---|-------------------------------------|
| Particulate Matter | 34 mg/dscm corrected to 7% O ₂ | 40 CFR Part 62, Subpart HHH Table 1 |
| Visible Emissions | 10% opacity (6-minute block average) | 40 CFR 62.14412 |
| Sulfur Dioxide | 55 ppm corrected to 7% O ₂ (dry basis) | 40 CFR Part 62, Subpart HHH Table 1 |
| Nitrogen Oxide | 250 ppmv corrected to 7% O ₂ (dry basis) | 40 CFR Part 62, Subpart HHH Table 1 |
| Carbon Monoxide | 40 ppmv corrected to 7% O ₂ (dry basis) | 40 CFR Part 62, Subpart HHH Table 1 |
| Hydrogen Chloride | reduced 93% by weight or volume, or 100 ppmv corrected to 7% O ₂ (dry basis), (1-hour average) | 40 CFR Part 62, Subpart HHH Table 1 |
| Mercury Emissions | .055 mg/dscm corrected to 7% O ₂ , whichever is less stringent (1-hour average) | 40 CFR Part 62, Subpart HHH Table 1 |
| Lead Emissions | reduced 70% by weight or 1.2 mg/dscm corrected to 7% O ₂ | 40 CFR Part 62, Subpart HHH Table 1 |
| Cadmium Emissions | reduced 65% by weight or 0.16 mg/dscm corrected to 7% O ₂ , | 40 CFR Part 62, Subpart HHH Table 1 |
| Dioxins and Furans | 125 nanograms/dscm total dioxins and furans corrected to 7% O ₂ or 2.3 nanograms/dscm (total equivalency) corrected to 7% O ₂ | 40 CFR Part 62, Subpart HHH Table 1 |

- F-2. These emission limits apply at all times except during startup, shutdown and or malfunction as those terms are defined at 40 CFR 62.14490 provided that no hospital waste or medical/infectious waste is charged to the HWIDI during period of startup, shutdown, or malfunction. (40 CFR 62.14413)
- F-3. The facility must have a trained HMIWI operator that has received training from a training program that has a training course that meets the requirements of 40 CFR 62.14422 and whose school operator satisfies the qualification requirements of 40 CFR 62.14423 either at the facility or able to be at the facility within 1 hour. (40 CFR 62.14420)
- F-4. The facility must maintain the following pursuant to 40 CFR 62.14424:
 (a) Summary of the applicable standards under this subpart;
 (b) Description of basic combustion theory applicable to an HMIWI;

- (c) Procedures for receiving, handling, and charging waste;
- (d) Procedures for startup, shutdown, and malfunction;
- (e) Procedures for maintaining proper combustion air supply levels;
- (f) Procedures for operating the HMIWI and associated air pollution control systems within the standards established under this subpart;
- (g) Procedures for responding to malfunction or conditions that may lead to malfunction;
- (h) Procedures for monitoring HMIWI emissions;
- (i) Reporting and recordkeeping procedures; and
- (j) Procedures for handling ash.

You must keep the information listed in paragraphs (a)-(j) of this section in a readily accessible location for all HMIWI operators. This information, along with records of training, must be available for inspection by the EPA or its delegated enforcement agent upon request.

- F-5. The owner/operator of the facility must review the following information with each HMIWI operator pursuant to 40 CFR 62.14425:
 - (a) Owner/operator must establish a program for reviewing the information listed in §62.14424 annually with each HMIWI operator (defined in §62.14490).
 - (b) Owner/operator must conduct an initial review of the information listed in §62.14424 by February 15, 2001, or prior to assumption of responsibilities affecting HMIWI operation, whichever is later.
 - (c) Owner/operator must conduct subsequent reviews of the information listed in §62.14424 annually.

- F-6. The owner/operator must prepare a waste management plan that includes the elements listed at 40 CFR 62.14431 and is required to be submitted to EPA Region 4 by 60 days after the initial performance test requirements are due under 40 CFR 62.14463.

- F-7. The facility must perform an initial compliance test pursuant to 40 CFR 62.14451:
 - (a) If you operate an HMIWI that is not a small rural HMIWI, you must conduct an initial performance test for PM, opacity, CO, dioxin/furan, HCl, Pb, Cd, and Hg using the test methods and procedures outlined in §62.14452.
 - (b) After the initial performance test is completed or is required to be completed under §62.14470, whichever date comes first, you must:
 - (1) Determine compliance with the opacity limit by conducting an annual performance test (no more than 12 months following the previous performance test) using the applicable procedures and test methods listed in §62.14452.
 - (2) Determine compliance with the PM, CO, and HCl emission limits by conducting an annual performance test (no more than 12 months following the previous performance test) using the applicable procedures and test methods listed in §62.14452. If all three performance tests over a 3-year period indicate compliance with the emission limit for a pollutant (PM, CO, or HCl), you may forego a performance test for that pollutant for the next 2 years. At a minimum, you must conduct a performance test for PM, CO, and HCl every third year (no more than 36 months following the previous performance test). If a performance test conducted every third year indicates compliance with the emission limit for a pollutant (PM, CO, or HCl), you may forego a performance test for that pollutant for an additional 2 years. If any performance test indicates noncompliance with the respective emission limit, you must conduct a performance test for that pollutant annually until all annual performance tests over a 3-year period indicate compliance with the emission limit.

- (c) The EPA Administrator may request a repeat performance test at any time.
- F-8. The facility must utilize the test methods and procedures found at 40 CFR 62.14452 to conduct performance tests to determine compliance with the emission limits.
- F-9. The facility must monitor the following parameters to demonstrate compliance with allowable emission rates pursuant to 40 CFR 62.14453:
- (a) If your HMIWI is a small rural HMIWI, or your HMIWI is equipped with a dry scrubber followed by a fabric filter, a wet scrubber, or a dry scrubber followed by a fabric filter and wet scrubber:
- (1) You must establish the appropriate maximum and minimum operating parameters, indicated in Table 3, as site-specific operating parameters during the initial performance test to determine compliance with the emission limits; and
- (2) After the date on which the initial performance test is completed or is required to be completed under §62.14470, whichever comes first, your HMIWI must not operate above any of the applicable maximum operating parameters or below any of the applicable minimum operating parameters listed in Table 3 to Subpart HHH of Part 62 and measured as 3-hour rolling averages (calculated each hour as the average of the previous 3 operating hours), for a HMIWI with a dry scrubber followed by a fabric filter at all times except during startup, shutdown, malfunction, and performance tests.
- F-10. The facility must monitor the operating parameters pursuant to 40 CFR 62.14454.
- F-11. Operation above the established maximum or below the established minimum operating parameter(s) constitutes a violation of established operating parameter(s). Operating parameter limits do not apply during startup, shutdown, malfunction, and performance tests. (40 CFR 62.14455)
- F-12. The following records must be maintained pursuant to 40 CFR 62.14460:
- (a) Calendar date of each record;
- (b) Records of the following data:
- (1) Concentrations of any pollutant listed in table 1 and/or measurements of opacity;
- (2) The HMIWI charge dates, times, and weights and hourly charge rates;
- (3) Fabric filter inlet temperatures during each minute of operation, as applicable;
- (4) Amount and type of dioxin/furan sorbent used during each hour of operation, as applicable;
- (5) Amount and type of Hg sorbent used during each hour of operation, as applicable;
- (6) Amount and type of HCl sorbent used during each hour of operation, as applicable;
- (7) Secondary chamber temperatures recorded during each minute of operation;
- (8) Records of the annual equipment inspections, any required maintenance, and any repairs not completed within 10 operating days of an inspection or the time frame established by the EPA Administrator or delegated enforcement authority, as applicable;
- (9) Records indicating use of the bypass stack, including dates, times, and durations; and

- (10) If you are complying by monitoring site-specific operating parameters under §62.14453(b), you must monitor all operating data collected.
- (c) Identification of calendar days for which data on emission rates or operating parameters specified under paragraph (b) of this section were not obtained, with an identification of the emission rates or operating parameters not measured, reasons for not obtaining the data, and a description of corrective actions taken;
- (d) Identification of calendar days, times and durations of malfunctions, and a description of the malfunction and the corrective action taken.
- (e) Identification of calendar days for which data on emission rates or operating parameters specified under paragraphs (b) of this section exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of corrective actions taken.
- (f) The results of the initial, annual, and any subsequent performance tests conducted to determine compliance with the emission limits and/or to establish operating parameters, as applicable.
- (g) Records showing the names of HMIWI operators who have completed review of the documentation in §62.14424 as required by §62.14425, including the date of the initial review and all subsequent annual reviews;
- (h) Records showing the names of the HMIWI operators who have completed the operator training requirements, including documentation of training and the dates of the training;
- (i) Records showing the names of the HMIWI operators who have met the criteria for qualification under §62.14423 and the dates of their qualification; and
- (j) Records of calibration of any monitoring devices as required under §62.14454.

F-13. The facility must maintain the records specified under §62.14460 for a period of at least 5 years onsite in either paper copy or computer-readable format, unless an alternative format is approved by the EPA Administrator. (40 CFR 62.14461, 40 CFR 62.14462)

F-14. The facility must submit the following items to EPA Region 4 pursuant to 40 CFR 62.14463:

- (a) The initial performance test data as recorded under §62.14450(a) or §62.14451(a) (whichever applies);
- (b) The values for the site-specific operating parameters established pursuant to §62.14453, as applicable;
- (c) The waste management plan as specified in §62.14431;
- (d) The highest maximum operating parameter and the lowest minimum operating parameter for each operating parameter recorded for the calendar year being reported, pursuant to §62.14453, as applicable;
- (e) The highest maximum operating parameter and the lowest minimum operating parameter, as applicable, for each operating parameter recorded pursuant to §62.14453 for the calendar year preceding the year being reported, in order to provide a summary of the performance of the HMIWI over a 2-year period;
- (f) Any information recorded under §62.14460(c) through (e) for the calendar year being reported;
- (g) Any information recorded under §62.14460(c) through (e) for the calendar year preceding the year being reported, in order to provide a summary of the performance of the HMIWI over a 2-year period;

- (h) The results of any performance test conducted during the reporting period;
- (i) If no exceedances or malfunctions occurred during the calendar year being reported, a statement that no exceedances occurred during the reporting period;
- (j) Any use of the bypass stack, duration of such use, reason for malfunction, and corrective action taken; and
- (k) Records of the annual equipment inspections, any required maintenance, and any repairs not completed within 10 days of an inspection or the time frame established by the EPA Administrator.

F-15. The facility must submit reports pursuant to the timeframes listed in 40 CFR 62.14464:

- (a) You must submit the information specified in §62.14463(a) through (c) no later than 60 days following the initial performance test.
- (b) You must submit an annual report to the EPA Administrator no more than 1 year following the submission of the information in paragraph (a) of this section and you must submit subsequent reports no more than 1 year following the previous report (once the unit is subject to permitting requirements under title V of the Clean Air Act, you must submit these reports semiannually). The annual report must include the information specified in §62.14463(d) through (k), as applicable.
- (c) You must submit semiannual reports containing any information recorded under §62.14460(c) through (e) no later than 60 days following the end of the semiannual reporting period. The first semiannual reporting period ends 6 months following the submission of information in paragraph (a) of this section. Subsequent reports must be submitted no later than 6 calendar months following the previous report.

F-16. All reports must be signed by the facilities manager which is defined as the individual in charge of purchasing, maintaining, and operating the HMIWI or the owner's or operator's representative responsible for the management of the HMIWI. Alternative titles may include director of facilities or vice president of support services. (40 CFR 62.14465)

F-17. Upon the effective date of EPA's approval of Mecklenburg County's implementation plan for 40 CFR Part 62, the conditions found in the section F will no longer apply to the facility.

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 |
| 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 |



APPENDIX A: TOXIC AIR POLLUTANT REVIEW

Facility Name: *MNC Holdings, LLC*
 Facility Address: *3260 Campus Ridge Road, Matthews, NC*
 Date Issued: *March 11, 2011*

As a result of a process modification or SIC call, the above-referenced facility has been reviewed for toxic air pollutant emissions under MCAPCO Regulation 1.5700 - “Toxic Air Pollutant Procedures” and been found to emit the following substances:

| Reviewed Toxic Air Pollutant (TAP) | CAS No. | Toxic Permit Emission Rate (TPER) as listed in MCAPCO Regulation 1.5711 - “Emission Rates Requiring a Permit” | | | | Is TAP also a Hazardous Air Pollutant (HAP)? | Compliance Demonstration Method | |
|---|------------|---|---------|----------|----------|--|----------------------------------|-------------------------------------|
| | | lb/ year | lb/ day | lb/ hour | lb/ hour | | Actual emission rate below TPER? | Air Dispersion Modeling Conducted ? |
| arsenic & inorganic arsenic compounds | N/A | 0.016 | | | | Y | N | Y |
| beryllium & compounds | N/A | 0.28 | | | | Y | Y | Y |
| bioavailable chromate pigments, as chromium (VI) equivalent | N/A | .0056 | | | | | N | Y |
| cadmium | 7440-43-9 | 0.37 | | | | Y | N | Y |
| chlorine | 7782-50-5 | | .79 | | .23 | Y | N | Y |
| hexachlorodibenzo-p-dioxin | 57653-85-7 | 0.0051 | | | | N | N | Y |
| hydrogen chloride | 7647-01-0 | | | | 0.18 | Y | N | Y |
| hydrogen fluoride | 7664-39-3 | | 0.63 | | 0.064 | Y | Y | Y |
| manganese & compounds | N/A | | 0.63 | | | Y | N | Y |

| | | | | | | | | |
|---------------------------------------|-----------|---------|--------|--|-----|---|---|---|
| mercury, alkyl | N/A | | 0.0013 | | | N | Y | N |
| mercury,aryl & inorganic compounds | N/A | | 0.013 | | | N | Y | N |
| mercury, vapor | 7439-97-6 | | 0.013 | | | Y | Y | Y |
| nickel metal | 7440-02-0 | | 0.13 | | | Y | N | Y |
| polychlorinated biphenyls | 1336-36-3 | 5.6 | | | | Y | Y | Y |
| tetrachlorodibenzo-p-dioxin | 1746-01-6 | 0.00020 | | | | Y | N | Y |
| trichloroethylene | 79-01-6 | 4000 | | | | Y | N | Y |
| 1,1,2-trichloro-1,2,2-trifluoroethane | 76-13-1 | | | | 240 | N | N | Y |



ATTACHMENT 2: Operational Parameters

Facility Name: *MNC Holdings, LLC*
 Facility Address: *3250 Campus Ridge Road, Matthews, NC*
 Date Issued: *March 11, 2011*

The facility shall be operated in accordance with MCAPCO Regulation 2.1206(d) – “Hospital, Medical and Infectious Waste Incinerators (Operational Standards)” which requires the owner or operator comply with the compliance and performance testing requirements of that paragraph and 40 CFR 60.56c, excluding the fugitive emissions testing requirements of 40 CFR 60.56c(b)12 and (c)(3), and as follows:

| Operating Parameter | Established Value | Applicable Test Date ¹ |
|--|--|-----------------------------------|
| maximum charge rate ² | 1826 lbs/hour | 1/13-14/2009 |
| maximum fabric filter inlet temperature ² | 364° F. | 1/13-14/2009 |
| minimum secondary chamber temperature ³ | 1684° F. | 1/13-14/2009 |
| minimum sorbent flow rate ^{3,4} | 68 lbs/hour | 1/13-14/2009 |
| minimum lime feed system parameters ⁶ | motor setting = 700 motor voltage = 62.0 volts vibrator setting = on | 10/18-27/2010 ⁵ |
| minimum carbon feed system parameters ⁶ | motor setting = 20 motor voltage = 22.5 volts vibrator setting = on | 10/18-27/2010 ⁵ |

1 The “applicable test date” reflects the date of the performance test that the operating parameter was established.

2 The established maximum value is 110% of the 3-hour rolling average recorded during the performance testing.

3 The established minimum value is 90% of the 3-hour rolling average recorded during the performance testing.

4 The established activated carbon portion of the sorbent mix must be maintained at $\geq 6\%$ of the total feed rate as demonstrated during the highest 3-hour average from the performance test conducted on January 13-14, 2009.

(71 lbs lime: 4.4 lbs carbon).

5 Lime and carbon feed system parameters reported to MCAQ by facility in an email dated October 27, 2010

6 Any adjustment to the listed sorbent system parameters shall be approved in writing from MCAQ, and be supported by a minimum of three (3) consecutive days of calibration and data.