

Facility ID: 1431072596 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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Facility ID: 1431072596 Emissions Unit ID: N004 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
N004-Carbon reactivation furnace w/ gas fired thermal incinerator followed by a scrubber	OAC rule 3745-31-05(A)(3) (PTI 14-1469)	Particulate Emissions (PE) shall not exceed 0.29 pound per hour and 1.27 tons per year. Sulfur Dioxide (SO2) emissions shall not exceed 9.1 pounds per hour and 39.9 tons per year. Nitrogen Oxide (NOx) emissions shall not exceed 2.77 pounds per hour and 12.1 tons per year. Hydrochloric Acid (HCl) emissions shall not exceed 0.2 pound per hour and 0.88 ton per year. Organic Compound (OC) emissions shall not exceed 0.39 pound per hour and 1.71 tons per year. Carbon Monoxide (CO) emissions shall not exceed 3.6 tons per year. Visible particulate emissions from any stack shall not exceed 5% opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-07(A)	The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(A)	The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC 3745-31-05(A)(3).

2. Additional Terms and Conditions

- (a) The permittee shall maintain a written quality assurance/quality control plan for the continuous opacity monitoring system, designed to ensure continuous valid and representative readings of opacity and compliance with 40 CFR Part 60, Appendix B, Performance Specification 1. The plan shall include, at a minimum, procedures for conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures for ensuring accurate operation of the continuous opacity monitoring system on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.

The continuous opacity monitoring system consists of all the equipment used to acquire data and record opacity.

B. Operational Restrictions

1. No other fuel than natural gas shall be used to operate this emissions unit. A permit to install shall be applied for

and obtained prior to any fuel change.

2. A monitoring device shall be installed in the water supply line to each scrubber that will shut down the regeneration systems in the event that the water supply to either scrubber fails.
3. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
4. The pressure drop across the scrubber shall be continuously maintained at a value of not less than 25 inches of water or the value established during the most recent emissions test that demonstrated compliance, at all times while the emissions unit is in operation.
5. The scrubber water flow rate shall be continuously maintained at a value of not less than 312 gallons per minute or the value established during the most recent emissions test that demonstrated compliance, at all times while the emissions unit is in operation.
6. The mean residence time of the thermal incinerator shall not be less than 2 seconds.
7. The permittee shall operate and maintain a continuous oxygen monitor for this emissions unit.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain on-site, the document of certification received from the U.S. EPA or the Ohio EPA's Central Office verifying that the continuous opacity monitoring system has been certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. The letter/document of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

Each continuous monitoring system consists of all the equipment used to acquire and record data in units of all applicable standard(s), and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.

2. The permittee shall operate and maintain the continuous opacity monitoring system to continuously monitor and record the opacity of the particulate emissions from this emissions unit. The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.

The permittee shall maintain records of data obtained by the continuous opacity monitoring system including, but not limited to:

- a. percent opacity on an instantaneous (one-minute) and 6-minute block average basis;
 - b. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;
 - c. hours of operation of the emissions unit, continuous opacity monitoring system, and control equipment;
 - d. the date, time, and hours of operation of the emissions unit without the control equipment and/or the continuous opacity monitoring system;
 - e. the date, time, and hours of operation of the emissions unit during any malfunction of the control equipment and/or the continuous opacity monitoring system; as well as,
 - f. the reason (if known) and the corrective actions taken (if any) for each such event in (d) and (e).
3. The permittee shall maintain a written quality assurance/quality control plan for the continuous opacity monitoring system designed to ensure continuous valid and representative readings of opacity. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures for ensuring that sections 7.1.4, 7.4.1, 7.4.2, and Table 1-1 of Performance Specification 1 are maintained on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.
 4. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

- a. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
 - b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
5. The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the scrubber water flow rate while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. The pressure drop across the scrubber, in inches of water, on a daily basis.

- b. The scrubber water flow rate, in gallons per minute, on a daily basis.
- c. The operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

D. Reporting Requirements

1. The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its continuous opacity monitoring system:
 - a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR Parts 60.7 and 60.13(h) and the requirements established in this permit, the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency, documenting all instances of opacity values in excess of any limitation specified in this permit, 40 CFR Part 60, OAC rule 3745-17-07, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude (percent opacity) of each 6-minute block average exceeding the applicable opacity limitation(s), as well as, the reason (if known) and the corrective actions taken (if any) for each exceedance.
 - b. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall include the following:
 - i. the facility name and address;
 - ii. the manufacturer and model number of the continuous opacity monitor;
 - iii. a description of any change in the equipment that comprises the continuous opacity monitoring system (COMS), including any change to the hardware, changes to the software that may affect COMS readings, and/or changes in the location of the COMS sample probe;
 - iv. the excess emissions report (EER)*, i.e., a summary of any exceedances during the calendar quarter, as specified above;
 - v. the total operating time (hours) of the emissions unit;
 - vi. the total operating time of the continuous opacity monitoring system while the emissions unit was in operation;
 - vii. the date, time, and duration of any/each malfunction** of the continuous opacity monitoring system, emissions unit, and/or control equipment;
 - viii. the date, time, and duration of any downtime** of the continuous opacity monitoring system and/or control equipment while the emissions unit was in operation; and
 - ix. the reason (if known) and the corrective actions taken (if any) for each event in (b)(vii) and (viii).

Each report shall address the operations conducted and data obtained during the previous calendar quarter.

* where no exceedance of the opacity limit has occurred or the continuous monitoring system(s) has/have not been inoperative, repaired, or adjusted during the calendar quarter, such information shall be documented in the quarterly EER report

** each downtime and malfunction event shall be reported regardless if there is an exceedance of the opacity limit

2. The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified in term B.3.
3. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:
 - a. The pressure drop across the scrubber.
 - b. The scrubber water flow rate.
4. Unless specified, the deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 6 months of expiration of this permit.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate and organic compounds.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5, 40 CFR Part 60 Appendix A and Method 25 or 25A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time (s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such

notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

2. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitations:

Nitrogen oxide emissions shall not exceed 2.77 pounds per hour and 12.1 tons per year

Applicable Compliance Method:

Compliance with the hourly limitation is based on the information provided in permit to install application 14-1469 submitted on 12/3/87. Compliance with the annual emission limitation shall be determined by multiplying the hourly emissions rate by 8760 hours per year then dividing by 2000 pounds per ton.

b. Emission Limitation

Particulate emissions shall not exceed 0.29 pound per hour and 1.27 tons per year.

Applicable Compliance Method:

Compliance with the hourly limitation was determined based on the performance testing conducted on July 17, 2002. Compliance with the annual emission limitation shall be determined by multiplying the hourly emissions rate by 8760 hours per year then dividing by 2000 pounds per ton.

c. Emission Limitation:

Sulfur dioxide emissions shall not exceed 9.1 pounds per hour and 39.9 tons per year.

Applicable Compliance Method:

Compliance with the hourly limitation was determined based on the performance testing conducted on May 19 and 20, 1993. Compliance with the annual emission limitation shall be determined by multiplying the hourly emissions rate by 8760 hours per year then dividing by 2000 pounds per ton.

d. Emission Limitations:

Organic compound emissions shall not exceed 0.39 pound per hour and 1.71 tons per year.

Applicable Compliance Method:

Compliance with the hourly limitation was determined based on the performance testing conducted on May 19 and 20, 1993. Compliance with the annual emission limitation shall be determined by multiplying the hourly emissions rate by 8760 hours per year then dividing by 2000 pounds per ton.

e. Emission Limitations:

Hydrochloric acid emissions shall not exceed 0.2 pound per hour and 0.88 ton per year.

Applicable Compliance Method:

Compliance with the hourly limitation was determined based on the performance testing conducted on May 19 and 20, 1993. Compliance with the annual emission limitation shall be determined by multiplying the hourly emissions rate by 8760 hours per year then dividing by 2000 pounds per ton.

f. Emission Limitations:

Carbon monoxide emissions shall not exceed 3.6 tons per year

Applicable Compliance Method:

Compliance with the hourly limitation is based on the information provided in permit to install application 14-1469 submitted on 12/3/87. Compliance with the annual emission limitation shall be determined by multiplying the hourly emissions rate by 8760 hours per year then dividing by 2000 pounds per ton.

g. Emission Limitations:

Visible particulate emissions from any stack shall not exceed 5% opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

3. Compliance with the incinerator temperature requirement in term B.3 shall be demonstrated by the record keeping requirements in term C.4.

4. Compliance with the scrubber operational restrictions in term B.4 and B.5 shall be demonstrated by the record keeping requirements in term C.5.

F. Miscellaneous Requirements

None

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Facility ID: 1431072596 Emissions Unit ID: N005 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
N004-Carbon reactivation furnace w/ gas fired thermal incinerator followed by a scrubber	OAC rule 3745-31-05(A)(3) (PTI 14-1469)	Particulate Emissions (PE) shall not exceed 0.29 pound per hour and 1.27 tons per year.
		Sulfur Dioxide (SO ₂) emissions shall not exceed 9.1 pounds per hour and 39.9 tons per year.
		Nitrogen Oxide (NO _x) emissions shall not exceed 2.77 pounds per hour and 12.1 tons per year.
		Hydrochloric Acid (HCl) emissions shall not exceed 0.2 pound per hour and 0.88 ton per year.
		Organic Compound (OC) emissions shall not exceed 0.39 pound per hour and 1.71 tons per year.
		Carbon Monoxide (CO) emissions shall not exceed 3.6 tons per year.
		Visible particulate emissions from any stack shall not exceed 5% opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-07(A)	The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(A)	The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC 3745-31-05(A)(3).

2. Additional Terms and Conditions

- (a) The permittee shall maintain a written quality assurance/quality control plan for the continuous opacity monitoring system, designed to ensure continuous valid and representative readings of opacity and compliance with 40 CFR Part 60, Appendix B, Performance Specification 1. The plan shall include, at a minimum, procedures for conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures for ensuring accurate operation of the continuous opacity monitoring system on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.

The continuous opacity monitoring system consists of all the equipment used to acquire data and record opacity.

B. Operational Restrictions

1. No other fuel than natural gas shall be used to operate this emissions unit. A permit to install shall be applied for and obtained prior to any fuel change.
2. A monitoring device shall be installed in the water supply line to each scrubber that will shut down the regeneration systems in the event that the water supply to either scrubber fails.
3. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
4. The pressure drop across the scrubber shall be continuously maintained at a value of not less than 25 inches of

water or the value established during the most recent emissions test that demonstrated compliance, at all times while the emissions unit is in operation.

5. The scrubber water flow rate shall be continuously maintained at a value of not less than 312 gallons per minute or the value established during the most recent emissions test that demonstrated compliance, at all times while the emissions unit is in operation.
6. The mean residence time of the thermal incinerator shall not be less than 2 seconds.
7. The permittee shall operate and maintain a continuous oxygen monitor for this emissions unit.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain on-site, the document of certification received from the U.S. EPA or the Ohio EPA's Central Office verifying that the continuous opacity monitoring system has been certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. The letter/document of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

Each continuous monitoring system consists of all the equipment used to acquire and record data in units of all applicable standard(s), and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.

2. The permittee shall operate and maintain the continuous opacity monitoring system to continuously monitor and record the opacity of the particulate emissions from this emissions unit. The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.

The permittee shall maintain records of data obtained by the continuous opacity monitoring system including, but not limited to:

- a. percent opacity on an instantaneous (one-minute) and 6-minute block average basis;
 - b. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;
 - c. hours of operation of the emissions unit, continuous opacity monitoring system, and control equipment;
 - d. the date, time, and hours of operation of the emissions unit without the control equipment and/or the continuous opacity monitoring system;
 - e. the date, time, and hours of operation of the emissions unit during any malfunction of the control equipment and/or the continuous opacity monitoring system; as well as,
 - f. the reason (if known) and the corrective actions taken (if any) for each such event in (d) and (e).
3. The permittee shall maintain a written quality assurance/quality control plan for the continuous opacity monitoring system designed to ensure continuous valid and representative readings of opacity. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures for ensuring that sections 7.1.4, 7.4.1, 7.4.2, and Table 1-1 of Performance Specification 1 are maintained on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.
 4. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

- a. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
 - b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
5. The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the scrubber water flow rate while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. The pressure drop across the scrubber, in inches of water, on a daily basis.
- b. The scrubber water flow rate, in gallons per minute, on a daily basis.
- c. The operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

D. Reporting Requirements

1. The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its continuous opacity monitoring system:

- a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR Parts 60.7 and 60.13(h) and the requirements established in this permit, the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency, documenting all instances of opacity values in excess of any limitation specified in this permit, 40 CFR Part 60, OAC rule 3745-17-07, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude (percent opacity) of each 6-minute block average exceeding the applicable opacity limitation(s), as well as, the reason (if known) and the corrective actions taken (if any) for each exceedance.
- b. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall include the following:
 - i. the facility name and address;
 - ii. the manufacturer and model number of the continuous opacity monitor;
 - iii. a description of any change in the equipment that comprises the continuous opacity monitoring system (COMS), including any change to the hardware, changes to the software that may affect COMS readings, and/or changes in the location of the COMS sample probe;
 - iv. the excess emissions report (EER)*, i.e., a summary of any exceedances during the calendar quarter, as specified above;
 - v. the total operating time (hours) of the emissions unit;
 - vi. the total operating time of the continuous opacity monitoring system while the emissions unit was in operation;
 - vii. the date, time, and duration of any/each malfunction** of the continuous opacity monitoring system, emissions unit, and/or control equipment;
 - viii. the date, time, and duration of any downtime** of the continuous opacity monitoring system and/or control equipment while the emissions unit was in operation; and
 - ix. the reason (if known) and the corrective actions taken (if any) for each event in (b)(vii) and (viii).

Each report shall address the operations conducted and data obtained during the previous calendar quarter.

* where no exceedance of the opacity limit has occurred or the continuous monitoring system(s) has/have not been inoperative, repaired, or adjusted during the calendar quarter, such information shall be documented in the quarterly EER report

** each downtime and malfunction event shall be reported regardless if there is an exceedance of the opacity limit

2. The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified in term B.3.
3. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:
 - a. The pressure drop across the scrubber.
 - b. The scrubber water flow rate.
4. Unless specified, the deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 6 months after issuance of this permit.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate and organic compounds.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5, 40 CFR Part 60 Appendix A and Method 25 or 25A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time (s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30

days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

2. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitations:

Nitrogen oxide emissions shall not exceed 2.77 pounds per hour and 12.1 tons per year

Applicable Compliance Method:

Compliance with the hourly limitation is based on the information provided in permit to install application 14-1469 submitted on 12/3/87. Compliance with the annual emission limitation shall be determined by multiplying the hourly emissions rate by 8760 hours per year then dividing by 2000 pounds per ton.

b. Emission Limitation

Particulate emissions shall not exceed 0.29 pound per hour and 1.27 tons per year.

Applicable Compliance Method:

Compliance with the hourly limitation was determined based on the performance testing conducted on July 17, 2002. Compliance with the annual emission limitation shall be determined by multiplying the hourly emissions rate by 8760 hours per year then dividing by 2000 pounds per ton.

c. Emission Limitation:

Sulfur dioxide emissions shall not exceed 9.1 pounds per hour and 39.9 tons per year.

Applicable Compliance Method:

Compliance with the hourly limitation was determined based on the performance testing conducted on May 19 and 20, 1993. Compliance with the annual emission limitation shall be determined by multiplying the hourly emissions rate by 8760 hours per year then dividing by 2000 pounds per ton.

d. Emission Limitations:

Organic compound emissions shall not exceed 0.39 pound per hour and 1.71 tons per year.

Applicable Compliance Method:

Compliance with the hourly limitation was determined based on the performance testing conducted on May 19 and 20, 1993. Compliance with the annual emission limitation shall be determined by multiplying the hourly emissions rate by 8760 hours per year then dividing by 2000 pounds per ton.

e. Emission Limitations:

Hydrochloric acid emissions shall not exceed 0.2 pound per hour and 0.88 ton per year.

Applicable Compliance Method:

Compliance with the hourly limitation was determined based on the performance testing conducted on May 19 and 20, 1993. Compliance with the annual emission limitation shall be determined by multiplying the hourly emissions rate by 8760 hours per year then dividing by 2000 pounds per ton.

f. Emission Limitations:

Carbon monoxide emissions shall not exceed 3.6 tons per year

Applicable Compliance Method:

Compliance with the hourly limitation is based on the information provided in permit to install application 14-1469 submitted on 12/3/87. Compliance with the annual emission limitation shall be determined by multiplying the hourly emissions rate by 8760 hours per year then dividing by 2000 pounds per ton.

g. Emission Limitations:

Visible particulate emissions from any stack shall not exceed 5% opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

3. Compliance with the incinerator temperature requirement in term B.3 shall be demonstrated by the record keeping requirements in term C.4.
4. Compliance with the scrubber operational restrictions in term B.4 and B.5 shall be demonstrated by the record keeping requirements in term C.5.

F. **Miscellaneous Requirements**

None