



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
MAHONING COUNTY**

**CERTIFIED MAIL**

Street Address:

50 West Town Street, Suite 700

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 02-22971**

**Fac ID: 0250000989**

**DATE: 6/12/2008**

Baird Brothers Sawmill Inc  
Paul Baird  
7060 Croy Rd  
Canfield, OH 44406

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
309 South Fourth Street, Room 222  
Columbus, OH 43215

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

CC: USEPA

NEDO



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**Permit To Install  
Terms and Conditions**

**Issue Date: 6/12/2008  
Effective Date: 6/12/2008**

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**FINAL PERMIT TO INSTALL 02-22971**

Application Number: 02-22971  
Facility ID: 0250000989  
Permit Fee: **\$2800**  
Name of Facility: Baird Brothers Sawmill Inc  
Person to Contact: Paul Baird  
Address: 7060 Croy Rd  
Canfield, OH 44406

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**7060 Croy Rd  
Ellsworth Twp, Ohio**

Description of proposed emissions unit(s):  
**5 natural gas fired generators.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

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Chris Korleski  
Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. State and Federally Enforceable Permit-To-Install General Terms and Conditions

#### 1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
  - i. The date, place (as defined in the permit), and time of sampling or measurements.
  - ii. The date(s) analyses were performed.
  - iii. The company or entity that performed the analyses.
  - iv. The analytical techniques or methods used.
  - v. The results of such analyses.
  - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
  - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written

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reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See B.9 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
  - iv. If this permit is for an emissions unit located at a Title V facility, then each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d. The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

## **2. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

## **3. Risk Management Plans**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

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#### **4. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

#### **5. Severability Clause**

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

#### **6. General Requirements**

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

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## **7. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

## **8. Federal and State Enforceability**

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

## **9. Compliance Requirements**

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
  - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
  - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
  - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

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- iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
  - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
  - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

#### **10. Permit-To-Operate Application**

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this permit is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the source(s) covered by this permit.

#### **11. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

#### **12. Air Pollution Nuisance**

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The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

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### **13. Permit-To-Install**

A permit-to-install must be obtained pursuant to OAC Chapter 3745-31 prior to "installation" of "any air contaminant source" as defined in OAC rule 3745-31-01, or "modification", as defined in OAC rule 3745-31-01, of any emissions unit included in this permit.

## **B. State Only Enforceable Permit-To-Install General Terms and Conditions**

### **1. Compliance Requirements**

The emissions unit(s) identified in this Permit shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

### **2. Reporting Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

### **3. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing

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of any transfer of this permit.

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**4. Authorization To Install or Modify**

If applicable, authorization to install or modify any new or existing emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**5. Construction of New Sources(s)**

This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

**6. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**7. Applicability**

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

**8. Construction Compliance Certification**

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If applicable, the applicant shall provide Ohio EPA with a written certification (see enclosed form if applicable) that the facility has been constructed in accordance with the permit-to-install application and the terms and conditions of the permit-to-install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

**9. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)**

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly (i.e., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

**C. Permit-To-Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)  
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
PM/PM-10	1.98
NOx	74.08
CO	133.36
VOC	5.92

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**Part II - FACILITY SPECIFIC TERMS AND CONDITIONS**

**A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions**

None

**B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions**

None

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (P001) - 7.6 mmBtu/hr Waukesha Model No. 3521GSI natural gas generator (engine No. 1 of 2) with catalytic converter.**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	Particulate matter (PM)/PM less than 10 microns in diameter (PM-10) shall not exceed 0.08 lb/hr and 0.33 TPY.  Nitrogen oxide (NO <sub>x</sub> ) emissions shall not exceed 2.11 lbs/hr and 9.26 TPY.  Carbon monoxide (CO) emissions shall not exceed 3.81 lbs/hr and 16.67 TPY.  Volatile organic compound (VOC) emissions shall not exceed 0.23 lb/hr and 0.99 TPY.  Visible particulate emissions from any stack shall not exceed 10 percent opacity as a six-minute average.  See Section II.1. below.  The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1) and OAC rule 3745-17-11(B)(5)(b).
OAC rule 3745-17-07(A)(1)	The opacity limitation specified in this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-11(B)(5)(b)	0.062 lb/mmBtu of particulate emissions
OAC rule 3745-18-06	This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(A).

Emissions Unit ID: P001

**2. Additional Terms and Conditions**

2.a None

**II. Operational Restrictions**

1. The permittee shall burn only natural gas in this emissions unit

**III. Monitoring and/or Recordkeeping Requirements**

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The deviation (excursion) reports shall be submitted in accordance with Section A.2 of the General Terms and Conditions of this permit.

**V. Testing Requirements**

1. Compliance with the emission limitations specified in section A.1. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:  
PM/PM-10 shall not exceed 0.08 lb/hr and 0.33 TPY.

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by multiplying 0.00991 lb/mmBtu (the emission factor from AP-42, "Stationary Internal Combustion Sources", Table 3.2-3, 7/00) by 7.6079 mmBtu/hr (the maximum input rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission limitation (0.08 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

- b. Emission Limitation:  
NO<sub>x</sub> emissions shall not exceed 2.11 lbs/hr and 9.26 TPY.

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**Applicable Compliance Method:**

Compliance with the hourly emission limitation above shall be determined by dividing 1.0 g/BHP-hr (the manufacturer supplied emission factor, including the 90% control efficiency of the catalytic converter) by 454 g/lb, and then multiplying by 960 brake-horsepower (the maximum power output rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission limitation (2.11 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

- c. **Emission Limitation:**  
CO emissions shall not exceed 3.81 lbs/hr and 16.67 TPY.

**Applicable Compliance Method:**

Compliance with the hourly emission limitation above shall be determined by dividing 1.8 g/BHP-hr (the manufacturer supplied emission factor, including the 85% control efficiency of the catalytic converter) by 454 g/lb, and then multiplying by 960 brake-horsepower (the maximum power output rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission limitation (3.81 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

- d. **Emission Limitation:**  
VOC emissions shall not exceed 0.23 lb/hr and 0.99 TPY.

**Applicable Compliance Method:**

Compliance with the hourly emission limitation above shall be determined by multiplying 0.0296 lb/mmBtu (the emission factor from AP-42, "Stationary Internal Combustion Sources", Table 3.2-3, 7/00) by 7.6079 mmBtu/hr (the maximum input rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission limitation (0.23 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with

Emissions Unit ID: P001

the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

- e. Emission Limitation:  
Visible particulate emissions from any stack shall not exceed 10 percent opacity as a six-minute average.

Applicable Compliance Method:

If required, compliance with the visible particulate emission limitation shall be demonstrated based upon the visible emission observations performed in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Method 9.

- f. Emission Limitation:  
0.062 lb/mmBtu of particulate emissions

Applicable Compliance Method:

If required compliance shall be determined according to OAC rule 3745-17-03(B)(10), (Method 5, 40 CFR, Part 60, Appendix A).

## **VI. Miscellaneous Requirements**

None

**Issued: 6/12/2008**

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (P001) - 7.6 mmBtu/hr Waukesha Model No. 3521GSI natural gas generator (engine No. 1 of 2) with catalytic converter.**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

Issued: 6/12/2008

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (P002) - 7.6 mmBtu/hr Waukesha Model No. 3521GSI natural gas generator (engine No. 2 of 2) with catalytic converter.**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>Particulate matter (PM)/PM less than 10 microns in diameter (PM-10) shall not exceed 0.08 lb/hr and 0.33 TPY.</p> <p>Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 2.11 lbs/hr and 9.26 TPY.</p> <p>Carbon monoxide (CO) emissions shall not exceed 3.81 lbs/hr and 16.67 TPY.</p> <p>Volatile organic compound (VOC) emissions shall not exceed 0.23 lb/hr and 0.99 TPY.</p> <p>Visible particulate emissions from any stack shall not exceed 10 percent opacity as a six-minute average.</p> <p>See Section II.1. below.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1) and OAC rule 3745-17-11(B)(5)(b).</p>
OAC rule 3745-17-07(A)(1)	The opacity limitation specified in this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-11(B)(5)(b)	0.062 lb/mmBtu of particulate emissions
OAC rule 3745-18-06	This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(A).

**2. Additional Terms and Conditions**

2.a None

**II. Operational Restrictions**

1. The permittee shall burn only natural gas in this emissions unit

**III. Monitoring and/or Recordkeeping Requirements**

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The deviation (excursion) reports shall be submitted in accordance with Section A.2 of the General Terms and Conditions of this permit.

**V. Testing Requirements**

1. Compliance with the emission limitations specified in section A.1. of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitation:  
PM/PM-10 shall not exceed 0.08 lb/hr and 0.33 TPY.

**Applicable Compliance Method:**

Compliance with the hourly emission limitation above shall be determined by multiplying 0.00991 lb/mmBtu (the emission factor from AP-42, "Stationary Internal Combustion Sources", Table 3.2-3, 7/00) by 7.6079 mmBtu/hr (the maximum input rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission limitation (0.08 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

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- b. Emission Limitation:  
NO<sub>x</sub> emissions shall not exceed 2.11 lbs/hr and 9.26 TPY.

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by dividing 1.0 g/BHP-hr (the manufacturer supplied emission factor, including the 90% control efficiency of the catalytic converter) by 454 g/lb, and then multiplying by 960 brake-horsepower (the maximum power output rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission limitation (2.11 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

- c. Emission Limitation:  
CO emissions shall not exceed 3.81 lbs/hr and 16.67 TPY.

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by dividing 1.8 g/BHP-hr (the manufacturer supplied emission factor, including the 85% control efficiency of the catalytic converter) by 454 g/lb, and then multiplying by 960 brake-horsepower (the maximum power output rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission limitation (3.81 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

- d. Emission Limitation:  
VOC emissions shall not exceed 0.23 lb/hr and 0.99 TPY.

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by multiplying 0.0296 lb/mmBtu (the emission factor from AP-42, "Stationary Internal Combustion Sources", Table 3.2-3, 7/00) by 7.6079 mmBtu/hr (the maximum

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input rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission limitation (0.23 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

- e. **Emission Limitation:**  
Visible particulate emissions from any stack shall not exceed 10 percent opacity as a six-minute average.

**Applicable Compliance Method:**

If required, compliance with the visible particulate emission limitation shall be demonstrated based upon the visible emission observations performed in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Method 9.

- f. **Emission Limitation:**  
0.062 lb/mmBtu of particulate emissions

**Applicable Compliance Method:**

If required compliance shall be determined according to OAC rule 3745-17-03(B)(10), (Method 5, 40 CFR, Part 60, Appendix A).

## **VI. Miscellaneous Requirements**

None

Emissions Unit ID: P002

**B. State Only Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (P002) - 7.6 mmBtu/hr Waukesha Model No. 3521GSI natural gas generator (engine No. 2 of 2) with catalytic converter.**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05	None

**2. Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (P003) - 15.2 mmBtu/hr Waukesha Model No. 7042GSI natural gas generator (engine No. 1 of 3) with catalytic converter.**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>Particulate matter (PM)/PM less than 10 microns in diameter (PM-10) shall not exceed 0.15 lb/hr and 0.66 TPY.</p> <p>Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 4.23 lbs/hr and 18.52 TPY.</p> <p>Carbon monoxide (CO) emissions shall not exceed 7.61 lbs/hr and 33.34 TPY.</p> <p>Volatile organic compound (VOC) emissions shall not exceed 0.45 lb/hr and 1.97 TPY.</p> <p>Visible particulate emissions from any stack shall not exceed 10 percent opacity as a six-minute average.</p> <p>See Section II.1. below.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1) and OAC rule 3745-17-11(B)(5)(b).</p>
OAC rule 3745-17-07(A)(1)	The opacity limitation specified in this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-11(B)(5)(b)	0.062 lb/mmBtu of particulate emissions
OAC rule 3745-18-06	This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(A).

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**2. Additional Terms and Conditions**

2.a None

**II. Operational Restrictions**

1. The permittee shall burn only natural gas in this emissions unit

**III. Monitoring and/or Recordkeeping Requirements**

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The deviation (excursion) reports shall be submitted in accordance with Section A.2 of the General Terms and Conditions of this permit.

**V. Testing Requirements**

1. Compliance with the emission limitations specified in section A.1. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:  
PM/PM-10 shall not exceed 0.15 lb/hr and 0.66 TPY.

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by multiplying 0.00991 lb/mmBtu (the emission factor from AP-42, "Stationary Internal Combustion Sources", Table 3.2-3, 7/00) by 15.2152 mmBtu/hr (the maximum input rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission

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limitation (0.15 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

- b. Emission Limitation:  
NO<sub>x</sub> emissions shall not exceed 4.23 lbs/hr and 18.52 TPY.

**Applicable Compliance Method:**

Compliance with the hourly emission limitation above shall be determined by dividing 1.0 g/BHP-hr (the manufacturer supplied emission factor, including the 90% control efficiency of the catalytic converter) by 454 g/lb, and then multiplying by 1920 brake-horsepower (the maximum power output rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission limitation (4.23 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

- c. Emission Limitation:  
CO emissions shall not exceed 7.61 lbs/hr and 33.34 TPY.

**Applicable Compliance Method:**

Compliance with the hourly emission limitation above shall be determined by dividing 1.8 g/BHP-hr (the manufacturer supplied emission factor, including the 85% control efficiency of the catalytic converter) by 454 g/lb, and then multiplying by 1920 brake-horsepower (the maximum power output rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission limitation (7.61 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

- d. Emission Limitation:  
VOC emissions shall not exceed 0.45 lb/hr and 1.97 TPY.

**Applicable Compliance Method:**

Compliance with the hourly emission limitation above shall be determined by multiplying 0.0296 lb/mmBtu (the emission factor from AP-42, "Stationary Internal Combustion Sources", Table 3.2-3, 7/00) by 15.2152 mmBtu/hr (the maximum input rating of this unit).

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The TPY emission limitation was developed by multiplying the hourly emission limitation (0.45 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

- e. Emission Limitation:  
Visible particulate emissions from any stack shall not exceed 10 percent opacity as a six-minute average.

Applicable Compliance Method:

If required, compliance with the visible particulate emission limitation shall be demonstrated based upon the visible emission observations performed in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Method 9.

- f. Emission Limitation:  
0.062 lb/mmBtu of particulate emissions

Applicable Compliance Method:

If required compliance shall be determined according to OAC rule 3745-17-03(B)(10), (Method 5, 40 CFR, Part 60, Appendix A).

## **VI. Miscellaneous Requirements**

None

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**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (P003) - 15.2 mmBtu/hr Waukesha Model No. 7042GSI natural gas generator (engine No. 1 of 3) with catalytic converter.**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (P004) - 15.2 mmBtu/hr Waukesha Model No. 7042 GSI natural gas generator (engine No. 2 of 3) with catalytic converter.**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	Particulate matter (PM)/PM less than 10 microns in diameter (PM-10) shall not exceed 0.15 lb/hr and 0.66 TPY.  Nitrogen oxide (NO <sub>x</sub> ) emissions shall not exceed 4.23 lbs/hr and 18.52 TPY.  Carbon monoxide (CO) emissions shall not exceed 7.61 lbs/hr and 33.34 TPY.  Volatile organic compound (VOC) emissions shall not exceed 0.45 lb/hr and 1.97 TPY.  Visible particulate emissions from any stack shall not exceed 10 percent opacity as a six-minute average.  See Section II.1. below.  The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1) and OAC rule 3745-17-11(B)(5)(b).
OAC rule 3745-17-07(A)(1)	The opacity limitation specified in this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-11(B)(5)(b)	0.062 lb/mmBtu of particulate emissions
OAC rule 3745-18-06	This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(A).

**2. Additional Terms and Conditions**

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2.a None

**II. Operational Restrictions**

1. The permittee shall burn only natural gas in this emissions unit

**III. Monitoring and/or Recordkeeping Requirements**

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The deviation (excursion) reports shall be submitted in accordance with Section A.2 of the General Terms and Conditions of this permit.

**V. Testing Requirements**

1. Compliance with the emission limitations specified in section A.1. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:  
PM/PM-10 shall not exceed 0.15 lb/hr and 0.66 TPY.

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by multiplying 0.00991 lb/mmBtu (the emission factor from AP-42, "Stationary Internal Combustion Sources", Table 3.2-3, 7/00) by 15.2152 mmBtu/hr (the maximum input rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission limitation (0.15 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

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- b. Emission Limitation:  
NO<sub>x</sub> emissions shall not exceed 4.23 lbs/hr and 18.52 TPY.

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by dividing 1.0 g/BHP-hr (the manufacturer supplied emission factor, including the 90% control efficiency of the catalytic converter) by 454 g/lb, and then multiplying by 1920 brake-horsepower (the maximum power output rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission limitation (4.23 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

- c. Emission Limitation:  
CO emissions shall not exceed 7.61 lbs/hr and 33.34 TPY.

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by dividing 1.8 g/BHP-hr (the manufacturer supplied emission factor, including the 85% control efficiency of the catalytic converter) by 454 g/lb, and then multiplying by 1920 brake-horsepower (the maximum power output rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission limitation (7.61 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

- d. Emission Limitation:  
VOC emissions shall not exceed 0.45 lb/hr and 1.97 TPY.

Applicable Compliance Method:

Compliance with the hourly emission limitation above shall be determined by multiplying 0.0296 lb/mmBtu (the emission factor from AP-42, "Stationary Internal Combustion Sources", Table 3.2-3, 7/00) by 15.2152 mmBtu/hr (the maximum

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input rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission limitation (0.45 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

- e. Emission Limitation:  
Visible particulate emissions from any stack shall not exceed 10 percent opacity as a six-minute average.

Applicable Compliance Method:

If required, compliance with the visible particulate emission limitation shall be demonstrated based upon the visible emission observations performed in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Method 9.

- f. Emission Limitation:  
0.062 lb/mmBtu of particulate emissions

Applicable Compliance Method:

If required compliance shall be determined according to OAC rule 3745-17-03(B)(10), (Method 5, 40 CFR, Part 60, Appendix A).

## **VI. Miscellaneous Requirements**

None

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**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (P004) - 15.2 mmBtu/hr Waukesha Model No. 7042 GSI natural gas generator (engine No. 2 of 3) with catalytic converter.**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

Issued: 6/12/2008

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (P005) - 15.2 mmBtu/hr Waukesha Model No. 7042GSI natural gas generator (engine No. 3 of 3) with catalytic converter.**

<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
OAC rule 3745-31-05(A)(3)	Nitrogen oxide (NO <sub>x</sub> ) emissions shall not exceed 4.23 lbs/hr and 18.52 TPY.  Carbon monoxide (CO) emissions shall not exceed 7.61 lbs/hr and 33.34 TPY.
ORC 3704.03(T)(4)	See section A.2.d below.
OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
OAC rule 3745-17-11(B)(5)(b)	0.062 lb/mmBtu of particulate emissions
OAC rule 3745-18-06	This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(A).
40 CFR Part 60, Subpart JJJJ	See sections A.2.a, A.2.b, A.2.c below.
40 CFR Part 63, Subpart ZZZZ	See section A.2.e below.

**2. Additional Terms and Conditions**

- 2.a** NO<sub>x</sub> emissions shall not exceed 2.0 g/HP-hr or 160 ppmvd at 15 percent oxygen (O<sub>2</sub>).
- 2.b** CO emissions shall not exceed 4.0 g/HP-hr or 540 ppmvd at 15 percent O<sub>2</sub>.

Emissions Unit ID: P005

- 2.c** Volatile organic compound (VOC) emissions shall not exceed 1.0 g/HP-hr or 86 ppmvd at 15 percent O<sub>2</sub>.
- 2.d** The Best Available Technology (BAT) requirements under OAC rule 3745-31-05 (A)(3) do not apply to the uncontrolled VOC, SO<sub>2</sub> and particulate emissions from this air contaminant source, since the potential to emit for VOC, SO<sub>2</sub> and particulate emissions is less than ten tons per year.
- 2.e** Since this emissions unit is a new or reconstructed unit located at an area source for hazardous air pollutants (HAPs), per section 63.6590(c) this emissions unit complies with 40 CFR Part 63, Subpart ZZZZ by complying with 40 CFR Part 60 Subpart JJJJ.

**II. Operational Restrictions**

- 1. The permittee shall burn only natural gas in this emissions unit
- 2. The emissions unit must be operated and maintained according to the manufacturer's emission-related written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. The permittee may only change those settings that are permitted by the manufacturer.

**III. Monitoring and/or Recordkeeping Requirements**

- 1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall maintain an operations log that documents all maintenance conducted on the engine.
- 3. The permittee shall retain a copy of the initial notification required in section D.1 on site and made available to the director or a representative upon request.
- 4. The permittee shall retain documentation that the engine meets the short term emissions standards on site and made available to the director or a representative upon request.

**IV. Reporting Requirements**

- 1. The permittee shall furnish to US EPA, Region V and the Ohio EPA, Northeast District Office a written initial notification that contains:
  - a. the name and address of the owner or operator;
  - b. the address of the emissions unit;
  - c. the engine information including make, model, engine family, serial number, model year, maximum engine power and engine displacement;

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- d. the date construction of the emissions unit commenced;
- e. emissions control equipment; and
- f. fuel used.

The notification shall be postmarked no later than 30 days after such date.

2. The permittee shall submit annual written reports that state that the engine was operated and maintained according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer.

These reports shall be submitted to the Director (Ohio EPA Northeast District Office) by January 31 of each year and shall cover the previous calendar year.

3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
4. The deviation (excursion) reports shall be submitted in accordance with Section A.2 of the General Terms and Conditions of this permit.

## **V. Testing Requirements**

1. Compliance with the emission limitations specified in section A.1. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:  
NO<sub>x</sub> emissions shall not exceed 4.23 lbs/hr, 2.0 g/HP-hr or 160 ppmvd at 15 percent oxygen (O<sub>2</sub>) and 18.52 TPY.

Applicable Compliance Method:

Compliance shall be demonstrated by the engine manufacturer which certifies the emissions of NO<sub>x</sub> after the catalyst at 1.0 g/BHP-hr.

Compliance with the hourly emission limitation above shall be determined by dividing 1.0 g/BHP-hr (the manufacturer supplied emission factor, including the 90% control efficiency of the catalytic converter) by 454 g/lb, and then multiplying by 1920 brake-horsepower (the maximum power output rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission

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limitation (4.23 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

- b. Emission Limitation:  
CO emissions shall not exceed 7.61 lbs/hr, 4.0 g/HP-hr or 540 ppmvd at 15 percent O<sub>2</sub> and 33.34 TPY.

Applicable Compliance Method:

Compliance shall be demonstrated by the engine manufacturer which certifies the emissions of CO after the catalyst at 1.8 g/BHP-hr.

Compliance with the hourly emission limitation above shall be determined by dividing 1.8 g/BHP-hr (the manufacturer supplied emission factor, including the 85% control efficiency of the catalytic converter) by 454 g/lb, and then multiplying by 1920 brake-horsepower (the maximum power output rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission limitation (7.61 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

- c. Emission Limitation:  
VOC emissions shall not exceed 1.0 g/HP-hr or 86 ppmvd at 15 percent O<sub>2</sub>.

Applicable Compliance Method:

Compliance shall be demonstrated by the engine manufacturer which certifies the emissions of non-methane hydrocarbons after the catalyst at 0.5 g/BHP-hr.

- d. Emission Limitation:  
Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance with the visible particulate emission limitation shall be demonstrated based upon the visible emission observations performed in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Method 9.

- e. Emission Limitation:  
0.062 lb/mmBtu of particulate emissions

Applicable Compliance Method:

If required compliance shall be determined according to OAC rule

**Issued: 6/12/2008**

3745-17-03(B)(10), (Method 5, 40 CFR, Part 60, Appendix A).

**VI. Miscellaneous Requirements**

None

**Issued: 6/12/2008**

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (P005) - 15.2 mmBtu/hr Waukesha Model No. 7042GSI natural gas generator (engine No. 3 of 3) with catalytic converter.**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

**Baird Brothers Sawmill Inc**  
**PTI Application: 02-22971**  
**Issued: 6/12/2008**

**Facility ID: 0250000989**

Emissions Unit ID: P005

SIC CODE 2431 SCC CODE 2-03-002-01 EMISSIONS UNIT ID P001  
 EMISSIONS UNIT DESCRIPTION 7.6 mmBtu/hr Waukesha Model No. 3521GSI natural gas generator (engine No. 1 of 2) with catalytic converter.  
 DATE INSTALLED August 2005

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.04 lb/hr	0.05	0.08 lb/hr	0.33
PM <sub>10</sub>	attainment	0.04 lb/hr	0.04	0.08 lb/hr	0.33
Sulfur Dioxide					
Organic Compounds	attainment	0.13 lb/hr	0.14	0.23 lb/hr	0.99
Nitrogen Oxides	attainment	1.21 lbs/hr	1.30	2.11 lbs/hr	9.26
Carbon Monoxide	attainment	2.17 lbs/hr	2.34	3.81 lbs/hr	16.67
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? \_\_\_\_\_ NESHAP? \_\_\_\_\_ PSD? \_\_\_\_\_ OFFSET POLICY? \_\_\_\_\_

**WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?**

**Enter Determination** Emissions limits for each criteria pollutant (other than lead) are set at potential levels. An opacity restriction is also included.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ \_\_\_\_\_

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? \_\_\_\_\_ YES X NO

IDENTIFY THE AIR CONTAMINANTS: \_\_\_\_\_



**Baird Brothers Sawmill Inc**  
**PTI Application: 02-22971**  
**Issued: 6/12/2008**

**Facility ID: 0250000989**

Emissions Unit ID: P005

SIC CODE 2431 SCC CODE 2-03-002-01 EMISSIONS UNIT ID P003  
 EMISSIONS UNIT DESCRIPTION 15.2 mmBtu/hr Waukesha Model No. 7042GSI natural gas generator (engine No. 1 of 3) with catalytic converter.  
 DATE INSTALLED December 1996

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.06 lb/hr	0.07	0.15 lb/hr	0.66
PM <sub>10</sub>	attainment	0.06 lb/hr	0.07	0.15 lb/hr	0.66
Sulfur Dioxide					
Organic Compounds	attainment	0.19 lb/hr	0.21	0.45 lb/hr	1.97
Nitrogen Oxides	attainment	2.41 lbs/hr	2.66	4.23 lbs/hr	18.52
Carbon Monoxide	attainment	4.34 lbs/hr	4.79	7.61 lbs/hr	33.34
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? \_\_\_\_\_ NESHAP? \_\_\_\_\_ PSD? \_\_\_\_\_ OFFSET POLICY? \_\_\_\_\_

**WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?**

**Enter Determination** Emissions limits for each criteria pollutant (other than lead) are set at potential levels. An opacity restriction is also included.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ \_\_\_\_\_

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? \_\_\_\_\_ YES X NO

IDENTIFY THE AIR CONTAMINANTS: \_\_\_\_\_



Emissions Unit ID: P005

Issued: 6/12/2008

SIC CODE 2431 SCC CODE 2-03-002-01 EMISSIONS UNIT ID P005  
 EMISSIONS UNIT DESCRIPTION 15.2 mmBtu/hr Waukesha Model No. 7042GSI natural gas generator (engine No. 3 of 3) with catalytic converter.  
 DATE INSTALLED upon issuance

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM <sub>10</sub>					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides	attainment	2.41 lbs/hr	2.51	4.23 lbs/hr	18.52
Carbon Monoxide	attainment	4.34 lbs/hr	4.51	7.61 lbs/hr	33.34
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:  
 OFFSET POLICY?

NSPS? Subpart JJJJ NESHAP? Subpart  
 ZZZZ PSD?

**WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?**

**Enter Determination** Emissions limits for each criteria pollutant (other than lead) are set at potential levels. An opacity restriction is also included.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ \_\_\_\_\_

**TOXIC AIR CONTAMINANTS**

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