

Synthetic Minor Determination and/or  Netting Determination

Permit To Install 01-08870

**A. Source Description**

The applicant, Southeastern Correctional Institution, has submitted an PTI application for the proposed installation of a 32 MMBtu per hour boiler. The boiler will burn natural gas as the primary fuel. This permit also allows for the use of fuel oil. The purpose of the fuel oil to provide an alternative source of fuel for the boiler in the event the gas supply is rendered unavailable. The yearly fuel oil use is limited to 800 hours. The emissions are based upon the maximum hourly and yearly fuel use for natural gas. The hourly limits for fuel oil is based upon the maximum hourly fuel use rate while the yearly limits are based on 800 hours per year of operation.

**B. Facility Emissions and Attainment Status**

Southeastern Correctional Institution is not classified as a Major Stationary Source pursuant to Title V operating permit requirements for any pollutant(s). Potential emissions, solely from the 32 MMBtu per hour boiler while firing only No. 2 fuel oil, triggers Title V permitting thresholds levels.

**C. Source Emissions**

Yearly potential emissions of pollutants from firing of No. 2 fuel oil in the 32 MMBtu per hour boiler are:

NO<sub>x</sub> - 24.5 TPY  
CO - 9.2 TPY  
SO<sub>2</sub> - 68.3 TPY  
PE - 3.3 TPY  
VOC - 3.9 TPY

Requested emissions of pollutants from firing of No. 2 fuel oil in the 32 MMBtu per hour boiler are:

NO<sub>x</sub> - 2.2 TPY  
CO - 0.84 TPY  
SO<sub>2</sub> - 6.24 TPY  
PE - 0.3 TPY  
VOC - 0.36 TPY

Limiting the use No. 2 fuel oil to 800 hours per year, contained within this permit to install, will reduce potential emissions of 109 tons per year by 99.3 tons per year. Therefore, potential emissions of 109.2 tons per year are reduced to 9.9 tons per year ( $109.2 - 99.3 = 9.9$ ).

**D. Conclusion**

Southeastern Correctional Institution will become a Synthetic Minor facility by means of limiting the total yearly use of the No. 2 fuel oil to 800 hours per year when fired in the 32 MMBtu per hour boiler, so that the potential emissions of 89 tons per year are reduced to 11 tons per year.



State of Ohio Environmental Protection Agency

**RE: DRAFT PERMIT TO INSTALL  
FAIRFIELD COUNTY**

**CERTIFIED MAIL**

Street Address:

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

Mailing Address:

Lazarus Gov.  
Center

**Application No:** 01-08870

**Fac ID:** 0123010109

**DATE:** 10/5/2004

Southeastern Correctional Institute  
Phil Fleming  
5900 B.I.S. Road  
Lancaster, OH 43130

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43266-0149.

A Permit to Install may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install a fee of **\$400** will be due. Please do not submit any payment now.

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. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Sincerely,

*Michael W. Ahern*

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

CC: USEPA

CDO

KY

**FAIRFIELD COUNTY**

**PUBLIC NOTICE**

**ISSUANCE OF DRAFT PERMIT TO INSTALL 01-08870 FOR AN AIR CONTAMINANT SOURCE FOR  
Southeastern Correctional Institute**

On 10/5/2004 the Director of the Ohio Environmental Protection Agency issued a draft action of a Permit To Install an air contaminant source for **Southeastern Correctional Institute**, located at **5900 B.I.S. Road, Lancaster, Ohio**.

Installation of the air contaminant source identified below may proceed upon final issuance of Permit To Install 01-08870:

**30,000 lb Gas/oil boiler number 2.**

Comments concerning this draft action, or a request for a public meeting, must be sent in writing to the address identified below no later than thirty (30) days from the date this notice is published. All inquiries concerning this draft action may be directed to the contact identified below.

Isaac Robinson, Ohio EPA, Central District Office, 3232 Alum Creek Drive, Columbus, OH 43207-3417  
[(614)728-3778]



**Permit To Install  
Terms and Conditions**

**Issue Date: To be entered upon final issuance  
Effective Date: To be entered upon final issuance**

**DRAFT PERMIT TO INSTALL 01-08870**

Application Number: 01-08870  
Facility ID: 0123010109  
Permit Fee: **To be entered upon final issuance**  
Name of Facility: Southeastern Correctional Institute  
Person to Contact: Phil Fleming  
Address: 5900 B.I.S. Road  
Lancaster, OH 43130

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**5900 B.I.S. Road  
Lancaster, Ohio**

Description of proposed emissions unit(s):  
**30,000 lb Gas/oil boiler number 2.**

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

Director

**A. Permit to Install General Terms and Conditions****1. Compliance Requirements**

The emissions unit(s) identified in this Permit to Install 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 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 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 quarterly, i.e., 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. Records Retention Requirements**

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.

**4. Inspections and Information Requests**

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. 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

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information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. 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 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. 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 emissions unit(s) that is (are) served by such control system(s).

**6. 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 of any transfer of this permit.

**7. Air Pollution Nuisance**

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.

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install 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.

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

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions

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**Facility ID: 0123010109**

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and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. 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 the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install 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.

**10. 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.

**11. Applicability**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

**12. 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.

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is

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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 emissions unit(s) covered by this permit.

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**14. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) 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.

**15. 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 this Permit to Install.

**B. 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 (NG / #2 Fuel Oil)</u>
NOx	4.9 / 2.2
CO	5.6 / 0.84
SO <sub>2</sub>	0.14 / 6.24
PE	1.4 / 0.3
VOC	2.2 / 0.36

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**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
B006 - 32.0 MMBTU per hour natural gas fired boiler (with fuel oil backup) with low NOx burners.	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-35-07(B) (synthetic minor to avoid Title V)
	OAC rule 3745-17-07(A)(1)

Issued

Emissions Unit ID: B006

OAC rule	Applicable Emissions Limitations/Control Measures	
3745-17-10(B)(1)		Particulate (PE) emissions, when firing natural gas, shall not exceed 0.3 lb/hr and 1.4 tons per year.
OAC rule 3745-18-06(D)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), and OAC rule 3745-35-07(B)	PE emissions shall not exceed 0.75 lb/hr when firing fuel oil.
40CFR 60, Subpart Dc	Emissions shall not exceed:  Nitrogen oxide (NO <sub>x</sub> ) emissions, when firing natural gas, shall not exceed 1.1 lbs/hr and 4.9 tons per year.	Emissions from No. 2 fuel oil shall not exceed, as a 12 month rolling summation:  2.2 tons NO <sub>x</sub> 0.84 tons CO 6.24 tons SO <sub>2</sub> 0.3 tons PE 0.36 tons VOC
	NO <sub>x</sub> emissions shall not exceed 5.6 lbs/hr when firing fuel oil.	See Section A.II.2. and A.II.3 below.
	Carbon monoxide (CO) emissions, when firing natural gas, shall not exceed 1.3 lbs/hr and 5.6 tons per year.	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR 60, Subpart Dc.
	CO emissions shall not exceed 2.1 lbs/hr when firing fuel oil.	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	Sulfur dioxide (SO <sub>2</sub> ) emissions, when firing natural gas, shall not exceed 0.03 lb/hr and 0.14 tons per year.	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	SO <sub>2</sub> emissions shall not exceed 15.6 lbs/hr when firing fuel oil.	
	VOC emissions, when firing natural gas, shall not exceed 0.5 lb/hr and 2.2 tons per year.	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity, while burning number 2 fuel oil; and the SO <sub>2</sub> emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-
	VOC emissions shall not exceed 0.9 lb/hr when firing fuel oil.	

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05(A)(3).

**2. Additional Terms and Conditions**

**2.a** The hourly and annual emission limitations from firing natural gas and hourly emission limitations from No.2 fuel oil were established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with these limits.

**B. Operational Restrictions**

1. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I. above.
3. The maximum annual hours of operation while burning No. 2 fuel oil in this emissions unit shall not exceed 800 hours, based upon a rolling, 12-month summation.

To ensure enforceability during the first 12 calendar months of operation following issuance of this permit, the permittee shall not exceed the operating hours levels specified in the following table:

<u>Months</u>	<u>Maximum Allowable Cumulative Hours of Operation with No. 2 Fuel Oil</u>
1	730
1-2	800
1-3	800
1-4	800
1-5	800
1-6	800
1-7	800
1-8	800
1-9	800
1-10	800
1-11	800
1-12	800

After the first 12 calendar months of operation following issuance of this permit, compliance with the annual No. 2 fuel oil usage limitation shall be based upon a rolling, 12-month summation of the hours of operation while burning No. 2 fuel oil.

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

1. Pursuant to 40 CFR Part 60 Subpart Dc, the permittee shall record and maintain records of the amount of natural gas and No. 2 fuel oil combusted during each day. These records shall be maintained by the permittee for a period of two years following the date of such record.
2. For each day during which the permittee burns a fuel other than natural gas or No. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.

The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit

**Southeastern Correctional Institute****PTI Application: 01-09970****Issued****Facility ID: 0123010109****Emissions Unit ID: B006**

for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).)

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4. The permittee shall maintain a monthly record of hours of operation while using No. 2 fuel oil in this emission unit.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or no. 2 fuel oil was burned in the emissions unit. These reports shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports that identify each day during which records were not maintained on the amount of natural gas or No. 2 fuel oil combusted in the emission unit. These reports shall be submitted within 30 days after the deviation occurs.
3. The permittee shall submit deviation (excursion) reports which identify any exceedances of the rolling, 12-month hours of operation limitation, while burning No. 2 fuel oil. (For the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative hours of operation while burning No.2 fuel oil limitation as required in Section A.II.3. These reports shall be submitted within 30 days after the exceedance of the hourly restriction occurs.
4. The permittee shall notify the Ohio EPA, Central District Office, in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section C.3. above. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Central District Office within 30 days after the deviation occurs.
5. The following source is subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
B006	32.0 MMBTU per hour natural gas (with No. 2 fuel oil backup) fired boiler with low NOx burners.	Subpart Dc

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

Emissions Unit ID: **B006**

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency  
 DAPC - Air Quality Modeling and Planning  
 P.O. Box 1049  
 Columbus, OH 43216-1049

and

Ohio EPA  
 Central District Office  
 Division of Air Pollution Control  
 3232 Alum Creek Drive  
 Columbus, OH 43207

## **E. Testing Requirements**

1. Compliance with the emission limitations and of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitations:  
 NO<sub>x</sub> emissions, when firing natural gas, shall not exceed 1.1 lbs/hr and 4.9 tons per year.

Applicable Compliance Method:

Compliance shall be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (32.0 MMBtu/hour) by emissions factor (0.035 lb NO<sub>x</sub>/MMBTU\*). The annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 7E.

\* Emissions factor was obtained from manufacturers actual emissions testing data as submitted in PTI application.

- b. Emission Limitations:  
 CO emissions, when firing natural gas, shall not exceed 1.3 lbs/hr and 5.6 tons per year.

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Applicable Compliance Method:

Compliance shall be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (32.0 MMBtu/hour) by emissions factor (0.04 lb CO/MMBTU\*). The annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 10.

\* Emissions factor was obtained from manufacturers actual emissions testing data as submitted in PTI application.

c. Emission Limitations:

SO<sub>2</sub> emissions, when firing natural gas, shall not exceed 0.03 lb/hr and 0.14 tons per year.

Applicable Compliance Method:

Compliance shall be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (32.0 MMBtu/hour) by emissions factor (0.001 lb SO<sub>2</sub>/MMBTU\*). The annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6C.

\* Emissions factor was obtained from manufacturers actual emissions testing data as submitted in PTI application.

d. Emission Limitations:

VOC emissions, when firing natural gas, shall not exceed 0.5 lb/hr and 2.2 tons per year.

Applicable Compliance Method:

Compliance shall be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (32.0 MMBtu/hour) by emissions factor (0.016 lb VOC/MMBTU\*). The annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6C.

\* Emissions factor was obtained from manufacturers actual emissions testing data as submitted in PTI application.

e. Emission Limitations:

Particulate (PE) emissions, when firing natural gas, shall not exceed 0.3 lb/hr and 1.4 tons

per year.

Applicable Compliance Method:

Compliance shall be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (32.0 MMBtu/hour) by emissions factor (0.01 lb PE/MMBtu\*). The annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

\* Emissions factor was obtained from manufacturers actual emissions testing data as submitted in PTI application.

- f. Emission Limitation:  
NO<sub>x</sub> emissions shall not exceed 5.6 lbs/hour when firing fuel oil.

Applicable Compliance Method:

Compliance shall be determined by multiplying the maximum hourly oil burning capacity of the emissions unit (214 gallons/hour) by emissions factor\* (0.187 lb NO<sub>x</sub>/MMBTU) and 0.14 MMBTU per gallon of fuel oil. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 7E.

\* Emissions factor was obtained from manufacturers actual emissions testing data as submitted in PTI application.

- g. Emission Limitation:  
CO emissions shall not exceed 2.1 lbs/hr when firing fuel oil.

Applicable Compliance Method:

Compliance shall be determined by multiplying the maximum hourly oil burning capacity of the emissions unit (214 gallons/hour) by emissions factor\* (0.07 lb CO/MMBTU) and 0.14 MMBTU per gallon of fuel oil. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6C.

\* Emissions factor was obtained from manufacturers actual emissions testing data as submitted in PTI application.

- h. Emission Limitation:  
SO<sub>2</sub> emissions shall not exceed 15.6 lbs/hour when firing fuel oil.

Applicable Compliance Method:

Compliance shall be determined by multiplying the maximum hourly oil burning capacity

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of the emissions unit (214 gallons/hour) by emissions factor\* (0.52 lb SO<sub>2</sub> / MMBTU) and 0.14 MMBTU per gallon of fuel oil. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6C.

\* Emissions factor was obtained from manufacturers actual emissions testing data as submitted in PTI application.

- i. Emission Limitation:  
PE emissions shall not exceed 0.75 lb/hr when firing fuel oil.

**Applicable Compliance Method:**

Compliance shall be determined by multiplying the maximum hourly oil burning capacity of the emissions unit (214 gallons/hour) by emissions factor\* (0.025 lb PE / MMBTU) and 0.14 MMBTU per gallon of fuel oil. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

\* Emissions factor was obtained from manufacturers actual emissions testing data as submitted in PTI application.

**Issued: To be entered upon final issuance**

- j. Emission Limitation:  
Emissions shall not exceed, as a 12 month rolling summation - 2.2 tons NO<sub>x</sub>, 0.84 tons CO, 6.24 tons SO<sub>2</sub>, 0.3 tons PE, 0.36 tons VOC
- Applicable Compliance Method:  
Compliance with the rolling, 12-month summation for each emission limit, shall be determined by multiplying the current hours of operation with No. 2 fuel oil, by the respective emissions limits divided by 2000.
- k. Emission Limitation:  
PE shall not exceed 0.020 lb/MMBtu of actual heat input when firing natural gas or no. 2 fuel oil.
- Applicable Compliance Method:  
If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 5.
- l. Emission Limitation:  
Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
- Applicable Compliance Method:  
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
- m. Emission Limitation:  
The quality of the fuel oil burned in this emissions unit shall meet a sulfur content which is equal to or less than 0.5 weight percent sulfur on an "as burned" basis.
- Applicable Compliance Method:  
Compliance shall be demonstrated by the record keeping requirements pursuant to section III.3 above.

**F. Miscellaneous Requirements**

None