



State of Ohio Environmental Protection Agency

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

CERTIFIED MAIL

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 13-04031

DATE: 5/8/2003

Cuyahoga Community College Metro Campus
Thomas Somerville
2900 Community College Avenue
Cleveland, OH 44115

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 by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 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. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA

CLAA



**Permit To Install
Terms and Conditions**

**Issue Date: 5/8/2003
Effective Date: 5/8/2003**

FINAL PERMIT TO INSTALL 13-04031

Application Number: 13-04031
APS Premise Number: 1318007258
Permit Fee: **\$1200**
Name of Facility: Cuyahoga Community College Metro Campus
Person to Contact: Thomas Somerville
Address: 2900 Community College Avenue
Cleveland, OH 44115

Location of proposed air contaminant source(s) [emissions unit(s)]:
**2900 Community College Avenue
Cleveland, Ohio**

Description of proposed emissions unit(s):
Ch. 31 Modification to boilers to provide alternative/emergency use of No. 2 fuel oil -- B004, B005, and B006.

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

Part I - GENERAL TERMS AND CONDITIONS

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 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

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 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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Facility ID: 1318007258

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</u>
PM	5.50
NO _x	29.6
CO	23.13
OC	3.02
SO ₂	24.64

The above totals include emissions resulting from firing both fuels, No. 2 fuel oil and natural gas. These rates were determined by assuming that each boiler could operate 1565 hours/year firing fuel oil and the remaining operating time would be used for firing natural gas (8760 - 1565 = 7195 hrs/yr). This would be the worst case scenario for generating emissions for PE, NO_x, and SO₂. The worst case scenario for CO and OC is when the boilers are firing natural gas for 8760 hours/year.

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>
B004 - 20.9 mmBtu/hr hot water boiler used for space heating	OAC Rule 3745-31-05(A)(3) OAC Rule 3745-21-08(B) OAC Rule 3745-23-06(B)
The terms of this permit supercede the terms and conditions of PTI #13-03877 issued on September 27, 2001.	OAC Rule 3745-31-05(D) Synthetic Minor to avoid NSR, Title V, and minor source modeling 40 CFR 60 Subpart Dc
	OAC Rule 3745-17-07(A)
	OAC Rule 3745-17-10(B)(1)
	OAC Rule 3745-18-06(D)

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PTI A

Issued: 5/8/2003

Emissions Unit ID: B004

Applicable Emissions
Limitations/Control Measures

From burning natural gas:
 2.09 lb/hr of NO_x emissions
 1.76 lb/hr of CO emissions
 0.23 lb/hr of OC emissions
 0.01 lb/hr of SO₂ emissions
 See section A.2.a below

From burning No. 2 fuel oil:
 3.0 lb/hr of NO_x emissions
 0.75 lb/hr of CO emissions
 0.08 lb/hr of OC emissions
 See section A.2.b. below

The requirements established pursuant to this rule also include compliance with the requirements of OAC Rule 3745-17-07(A), OAC Rule 3745-17-10(B)(1) and 40 CFR Part 60, Subpart Dc.

20% opacity, as a six-minute average, except as provided by rule from the stack

0.020 lb PE/mmBtu

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC Rule 3745-31-05(A)(3) and NSPS subpart Dc.

See Section A.2.c below.

See Section A.2.c below.

See A.2.a and A.2.b below

0.5 lb SO₂/mmBtu when burning fuel oil

2. Additional Terms and Conditions

- 2.a** When firing natural gas, the combined annual emissions resulting from the operation of emissions units B004, B005 and B006 shall not exceed the following limits, based on the emission unit's potential to emit operating at 8760 hours/year:

PE 5.50 TPY
NO_x 27.46 TPY
CO 23.13 TPY
OC 3.02 TPY
SO₂ 0.13 TPY

- 2.b** When firing No. 2 fuel oil, the combined annual emissions resulting from the operation of emissions units B004, B005 and B006 shall not exceed the following limits, based on a rolling, 12-month summation of emissions:

PE 0.99 TPY
NO_x 7.05 TPY
CO 1.77 TPY
OC 0.19 TPY
SO₂ 24.53 TPY

The above emission rates, when firing fuel oil, represent the amount of emissions increase associated with this permit modification.

- 2.c** The design of the emissions unit and the technology associated with the current operating practices satisfy the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC Rules 3745-21-08 and 3745-23-06, respectively.

B. Operational Restrictions

1. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emission unit.
2. When burning No. 2 fuel oil the following restrictions apply:
 - a. The quality of the No. 2 fuel oil burned in this emissions unit shall meet the following specifications on an "as received" basis:
 - i. A sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.50 pounds of sulfur dioxide per million Btu actual heat input.
 - b. When firing No. 2 fuel oil, the maximum annual hours of operation for emissions units B004, B005 and B006 shall not exceed 4,695, based on a rolling, 12-month summation of the hours of operation.
 - c. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the hours of operation upon fuel oil for emission units B004, B005 and B006, combined, specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Operating Hours</u>
1	391
1-2	782
1-3	1173
1-4	1564
1-5	1955
1-6	2346
1-7	2737
1-8	3128
1-9	3519
1-10	3910
1-11	4301
1-12	4695

After the first 12 calendar months of operation following the issuance of this permit, compliance with the combined annual hours of operation limitation for emission units B004, B005 and B006 shall be based on a rolling, 12-month summation of the hours of

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Emissions Unit ID: B004

operation.

C. Monitoring and/or Recordkeeping Requirements

1. 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.
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 B.2.a above.
 - a. 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 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 and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.
 - b. 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.
3. The permittee shall maintain monthly records of the following information for emission units B004, B005 and B006:
 - a. the operating hours for each month when burning No. 2 fuel oil; and,
 - b. beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the operating hours when burning No. 2 fuel oil.

Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative operating hours for each calendar month.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or No. 2 fuel oil was burned in this emission unit. Each report shall be submitted within 30 days after the deviation occurs.

2. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent by weight) and heat content (Btu/gallon) of each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
 - a. the total quantity of oil received in each shipment (in gallons);
 - b. the weighted* average sulfur dioxide emission rate (pounds/mmBtu) for the oil received during the calendar month; and,
 - c. the weighted* average heat content (Btu/gallon) of the oil received during the calendar month.

*In proportion to the quantity of oil received in each shipment during the calendar month. These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the oil shipments received during the previous calendar quarters.

3. When burning No. 2 fuel oil, the permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative operating hours levels. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section A.1.
4. The permittee shall submit deviation (excursion) reports which identify all exceedances of the sulfur content limitation for No. 2 fuel oil combusted in this emissions unit.

E. Testing Requirements

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

- a. Emission Limitation:

0.020 lb/mmBtu of PM emissions when burning natural gas

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly natural gas usage of each emission unit (20922 ft³/hr) by the USEPA

Emissions Unit ID: **B004**

Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.4, Table 1.4-2 (7/98) emission factor for PM (7.6 lbs/mmft³). Then divide by 20.9 mmBtu/hr to determine the emission rate in pounds per mmBtu.

b. Emission Limitation:

2.09 lb/hr of NO_x emissions when burning natural gas

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly natural gas usage of each emission unit (20922 ft³/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.4, Table 1.4-1 (7/98) emission factor for NO_x (100 lbs/mmft³).

c. Emission Limitation:

1.76 lb/hr of CO emissions when burning natural gas

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly natural gas usage of each emission unit (20922 ft³/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.4, Table 1.4-1 (7/98) emission factor for CO (84 lbs/mmft³).

d. Emission Limitation:

0.23 lb/hr of OC emissions when burning natural gas

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly natural gas usage of each emission unit (20922 ft³/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.4, Table 1.4-2 (7/98) emission factor for VOC (5.5 lbs/mmft³).

e. Emission Limitation:

0.01 lb/hr of SO₂ emissions when burning natural gas

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly natural gas usage of each emission unit (20922 ft³/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.4, Table 1.4-2 (7/98) emission factor for SO₂ (0.6 lbs/mmft³).

f. Emission Limitation:

0.020 lb/mmBtu of PM emissions when burning No. 2 fuel oil

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly No. 2 fuel oil burning capacity of each emissions unit (149.5 gals/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.3, Table 1.3-1 (9/98) emission factor for PM (2 lb/1000 gal). Then divide by 20.9 mmBtu/hr to determine the emission rate in pounds per mmBtu.

g. Emission Limitation:

3.0 lb/hr of NO_x emissions when burning No. 2 fuel oil

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly No. 2 fuel oil burning capacity of each emissions unit (149.5 gals/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.3, Table 1.3-1 (9/98) emission factor for NO_x (20 lb/1000 gal).

h. Emission Limitation:

0.75 lb/hr of CO emissions when burning No. 2 fuel oil

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly No. 2 fuel oil burning capacity of each emissions unit (149.5 gals/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.3, Table 1.3-1 (9/98) emission factor for CO (5 lb/1000 gal).

i. Emission Limitation:

0.08 lb/hr of OC emissions when burning No. 2 fuel oil

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly No. 2 fuel oil burning capacity of each emissions unit (149.5 gals/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.3, Table 1.3-3 (9/98) emission factor for Total Organic

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Emissions Unit ID: B004

Compounds (TOC) (0.556 lb/1000 gal).

j. Emission Limitation:

0.5 lb/mmBtu of SO₂ emissions when burning No. 2 fuel oil

Applicable Compliance Method:

When firing fuel oil, compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation, as required in Section C.2 above.

k. Emission Limitation:

20% opacity, as a six-minute average

Applicable Compliance Method:

Compliance shall be determined by visible emission observations performed in accordance with USEPA Reference Method 9 and the procedures specified in OAC Rule 3745-17-03)(B)(1).

l. Emission Limitation:

When burning natural gas (for B004, B005, and B006 combined):

PE	5.50 TPY
NO _x	27.46 TPY
CO	23.13 TPY
OC	3.02 TPY
SO ₂	0.13 TPY

Applicable Compliance Method:

The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours of operation per year and dividing by 2000 pounds per ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the pounds per hour limitation.

m. Emission Limitation:

When burning No. 2 fuel oil (for B004, B005, and B006 combined):

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Emissions Unit ID: **B004**

PE 0.99 TPY
NO_x 7.05 TPY

CO 1.77 TPY
OC 0.19 TPY
SO₂ 24.53 TPY

Applicable Compliance Method:

Compliance with the above annual limitations shall be based on the recordkeeping requirements in Section C.5 above. Provided compliance is maintained with the hourly emission rate, multiply the hourly emission rate by the actual annual hours of operation--when burning No. 2 fuel oil--and divide by 2000 lbs/ton.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B.2., C.2., C.3., D.2., D.3., D.4. and E.

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

A. Applicable Emissions Limitations and/or Control Requirements

- 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>	OAC Rule 3745-18-06(D)
B005 - 20.9 mmBtu/hr hot water boiler used for space heating; lag boiler when B004 reaches capacity	OAC Rule 3745-31-05(A)(3)	
The terms of this permit supercede the terms and conditions of PTI #13-03877 issued on September 27, 2001.		OAC Rule 3745-21-08(B)
		OAC Rule 3745-23-06(B)
		OAC Rule 3745-31-05(D) Synthetic Minor to avoid NSR, Title V, and minor source modeling
		40 CFR 60 Subpart Dc
	OAC Rule 3745-17-07(A)	
	OAC Rule 3745-17-10(B)(1)	

Applicable Emissions
Limitations/Control Measures

From burning natural gas:
2.09 lb/hr of NO_x emissions
1.76 lb/hr of CO emissions
0.23 lb/hr of OC emissions
0.01 lb/hr of SO₂ emissions
See section A.2.a below

From burning No. 2 fuel oil:
3.0 lb/hr of NO_x emissions
0.75 lb/hr of CO emissions
0.08 lb/hr of OC emissions
See section A.2.b. below

The requirements established pursuant to this rule also include compliance with the requirements of OAC Rule 3745-17-07(A), OAC Rule 3745-17-10(B)(1) and 40 CFR Part 60, Subpart Dc.

20% opacity, as a six-minute average, except as provided by rule from the stack

0.020 lb PE/mmBtu

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC Rule 3745-31-05(A)(3) and NSPS subpart Dc.

See Section A.2.c below.

See Section A.2.c below.

See A.2.a and A.2.b below

0.5 lb SO₂/mmBtu when burning fuel oil

2. Additional Terms and Conditions

- 2.a When firing natural gas, the combined annual emissions resulting from the operation of emissions units B004, B005 and B006 shall not exceed the following limits, based on the emission unit's potential to emit operating at 8760 hours/year:

PE 5.50 TPY
NO_x 27.46 TPY
CO 23.13 TPY
OC 3.02 TPY
SO₂ 0.13 TPY

- 2.b When firing No. 2 fuel oil, the combined annual emissions resulting from the operation of emissions units B004, B005 and B006 shall not exceed the following limits, based on a rolling, 12-month summation of emissions:

PE 0.99 TPY
NO_x 7.05 TPY
CO 1.77 TPY
OC 0.19 TPY
SO₂ 24.53 TPY

- 2.c The design of the emissions unit and the technology associated with the current operating practices satisfy the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC Rules 3745-21-08 and 3745-23-06, respectively.

B. Operational Restrictions

1. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emission unit.
2. When burning No. 2 fuel oil the following restrictions apply:
 - a. The quality of the No. 2 fuel oil burned in this emissions unit shall meet the following specifications on an "as received" basis:
 - i. A sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.50 pounds of sulfur dioxide per million Btu actual heat input.
 - b. When firing No. 2 fuel oil, the maximum annual hours of operation for emissions units B004, B005 and B006 shall not exceed 4,695, based on a rolling, 12-month summation of

the hours of operation.

- c. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the hours of operation upon fuel oil for emission units B004, B005 and B006, combined, specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Operating Hours</u>
1	391
1-2	782
1-3	1173
1-4	1564
1-5	1955
1-6	2346
1-7	2737
1-8	3128
1-9	3519
1-10	3910
1-11	4301
1-12	4695

After the first 12 calendar months of operation following the issuance of this permit, compliance with the combined annual hours of operation limitation for emission units B004, B005 and B006 shall be based on a rolling, 12-month summation of the hours of operation.

C. Monitoring and/or Recordkeeping Requirements

1. 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.
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 B.2.a above.
 - a. 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 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 and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

- b. 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.
3. The permittee shall maintain monthly records of the following information for emission units B004, B005 and B006:
 - a. the operating hours for each month when burning No. 2 fuel oil; and,
 - b. beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the operating hours when burning No. 2 fuel oil.

Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative operating hours for each calendar month.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or No. 2 fuel oil was burned in this emission unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent by weight) and heat content (Btu/gallon) of each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
 - a. the total quantity of oil received in each shipment (in gallons);
 - b. the weighted* average sulfur dioxide emission rate (pounds/mmBtu) for the oil received during the calendar month; and,
 - c. the weighted* average heat content (Btu/gallon) of the oil received during the calendar month.

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*In proportion to the quantity of oil received in each shipment during the calendar month. These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the oil shipments received during the previous calendar quarters.

3. When burning No. 2 fuel oil, the permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative operating hours levels. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section A.1.
4. The permittee shall submit deviation (excursion) reports which identify all exceedances of the sulfur content limitation for No. 2 fuel oil combusted in this emissions unit.

E. Testing Requirements

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

- a. Emission Limitation:

0.020 lb/mmBtu of PM emissions when burning natural gas

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly natural gas usage of each emission unit (20922 ft³/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.4, Table 1.4-2 (7/98) emission factor for PM (7.6 lbs/mmft³). Then divide by 20.9 mmBtu/hr to determine the emission rate in pounds per mmBtu.

- b. Emission Limitation:

2.09 lb/hr of NO_x emissions when burning natural gas

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly natural gas usage of each emission unit (20922 ft³/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.4, Table 1.4-1 (7/98) emission factor for NO_x (100 lbs/mmft³).

c. Emission Limitation:

1.76 lb/hr of CO emissions when burning natural gas

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly natural gas usage of each emission unit (20922 ft³/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.4, Table 1.4-1 (7/98) emission factor for CO (84 lbs/mmft³).

d. Emission Limitation:

0.23 lb/hr of OC emissions when burning natural gas

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly natural gas usage of each emission unit (20922 ft³/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.4, Table 1.4-2 (7/98) emission factor for VOC (5.5 lbs/mmft³).

e. Emission Limitation:

0.01 lb/hr of SO₂ emissions when burning natural gas

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly natural gas usage of each emission unit (20922 ft³/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.4, Table 1.4-2 (7/98) emission factor for SO₂ (0.6 lbs/mmft³).

f. Emission Limitation:

0.020 lb/mmBtu of PM emissions when burning No. 2 fuel oil

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the

Emissions Unit ID: **B005**

maximum hourly No. 2 fuel oil burning capacity of each emissions unit (149.5 gals/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.3, Table 1.3-1 (9/98) emission factor for PM (2 lb/1000 gal). Then divide by 20.9 mmBtu/hr to determine the emission rate in pounds per mmBtu.

g. Emission Limitation:

3.0 lb/hr of NO_x emissions when burning No. 2 fuel oil

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly No. 2 fuel oil burning capacity of each emissions unit (149.5 gals/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.3, Table 1.3-1 (9/98) emission factor for NO_x (20 lb/1000 gal).

h. Emission Limitation:

0.75 lb/hr of CO emissions when burning No. 2 fuel oil

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly No. 2 fuel oil burning capacity of each emissions unit (149.5 gals/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.3, Table 1.3-1 (9/98) emission factor for CO (5 lb/1000 gal).

i. Emission Limitation:

0.08 lb/hr of OC emissions when burning No. 2 fuel oil

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly No. 2 fuel oil burning capacity of each emissions unit (149.5 gals/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.3, Table 1.3-3 (9/98) emission factor for Total Organic Compounds (TOC) (0.556 lb/1000 gal).

j. Emission Limitation:

0.5 lb/mmBtu of SO₂ emissions when burning No. 2 fuel oil

Applicable Compliance Method:

When firing fuel oil, compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation, as required in Section C.2 above.

k. Emission Limitation:

20% opacity, as a six-minute average

Applicable Compliance Method:

Compliance shall be determined by visible emission observations performed in accordance with USEPA Reference Method 9 and the procedures specified in OAC Rule 3745-17-03)(B)(1).

l. Emission Limitation:

When burning natural gas (for B004, B005, and B006 combined):

PE	5.50 TPY
NO _x	27.46 TPY
CO	23.13 TPY
OC	3.02 TPY
SO ₂	0.13 TPY

Applicable Compliance Method:

The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours of operation per year and dividing by 2000 pounds per ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the pounds per hour limitation.

m. Emission Limitation:

When burning No. 2 fuel oil (for B004, B005, and B006 combined) :

PE	0.99 TPY
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NO_x 7.05 TPY
CO 1.77 TPY
OC 0.19 TPY
SO₂ 24.53 TPY

Applicable Compliance Method:

Compliance with the above annual limitations shall be based on the recordkeeping requirements in Section C.5 above. Provided compliance is maintained with the hourly emission rate, multiply the hourly emission rate by the actual annual hours of operation--when burning No. 2 fuel oil--and divide by 2000 lbs/ton.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B.2., C.2., C.3., D.2., D.3., D.4. and E.

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 - 20.9 mmBtu/hr hot water boiler used for space heating; used as emergency back-up boiler	OAC Rule 3745-31-05(A)(3) OAC Rule 3745-21-08(B) OAC Rule 3745-23-06(B) OAC Rule 3745-31-05(D) Synthetic Minor to avoid NSR, Title V, and minor source modeling 40 CFR 60 Subpart Dc
The terms of this permit supercede the terms and conditions of PTI #13-03877 issued on September 27, 2001.	OAC Rule 3745-17-07(A)
	OAC Rule 3745-17-10(B)(1)
	OAC Rule 3745-18-06(D)

Cuyah

PTI A

Issued: 5/8/2003

Emissions Unit ID: B006

Applicable Emissions
Limitations/Control Measures

From burning natural gas:
 2.09 lb/hr of NO_x emissions
 1.76 lb/hr of CO emissions
 0.23 lb/hr of OC emissions
 0.01 lb/hr of SO₂ emissions
 See section A.2.a below

From burning No. 2 fuel oil:
 3.0 lb/hr of NO_x emissions
 0.75 lb/hr of CO emissions
 0.08 lb/hr of OC emissions
 See section A.2.b. below

The requirements established pursuant to this rule also include compliance with the requirements of OAC Rule 3745-17-07(A), OAC Rule 3745-17-10(B)(1) and 40 CFR Part 60, Subpart Dc.

20% opacity, as a six-minute average, except as provided by rule from the stack

0.020 lb PE/mmBtu

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC Rule 3745-31-05(A)(3) and NSPS subpart Dc.

See Section A.2.c below.

See Section A.2.c below.

See A.2.a and A.2.b below

0.5 lb SO₂/mmBtu when burning fuel oil

2. Additional Terms and Conditions

- 2.a When firing natural gas, the combined annual emissions resulting from the operation of emissions units B004, B005 and B006 shall not exceed the following limits, based on the emission unit's potential to emit operating at 8760 hours/year:

PE 5.50 TPY
NO_x 27.46 TPY
CO 23.13 TPY
OC 3.02 TPY
SO₂ 0.13 TPY

- 2.b When firing No. 2 fuel oil, the combined annual emissions resulting from the operation of emissions units B004, B005 and B006 shall not exceed the following limits, based on a rolling, 12-month summation of emissions:

PE 0.99 TPY
NO_x 7.05 TPY
CO 1.77 TPY
OC 0.19 TPY
SO₂ 24.53 TPY

- 2.c The design of the emissions unit and the technology associated with the current operating practices satisfy the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC Rules 3745-21-08 and 3745-23-06, respectively.

B. Operational Restrictions

1. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emission unit.
2. When burning No. 2 fuel oil the following restrictions apply:
 - a. The quality of the No. 2 fuel oil burned in this emissions unit shall meet the following specifications on an "as received" basis:
 - i. A sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.50 pounds of sulfur dioxide per million Btu actual heat input.
 - b. When firing No. 2 fuel oil, the maximum annual hours of operation for emissions units B004, B005 and B006 shall not exceed 4,695, based on a rolling, 12-month summation of

the hours of operation.

- c. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the hours of operation upon fuel oil for emission units B004, B005 and B006, combined, specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Operating Hours</u>
1	391
1-2	782
1-3	1173
1-4	1564
1-5	1955
1-6	2346
1-7	2737
1-8	3128
1-9	3519
1-10	3910
1-11	4301
1-12	4695

After the first 12 calendar months of operation following the issuance of this permit, compliance with the combined annual hours of operation limitation for emission units B004, B005 and B006 shall be based on a rolling, 12-month summation of the hours of operation.

C. Monitoring and/or Recordkeeping Requirements

1. 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.
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 B.2.a above.
 - a. 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 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

Emissions Unit ID: **B006**

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. 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.
3. The permittee shall maintain monthly records of the following information for emission units B004, B005 and B006:
 - a. the operating hours for each month when burning No. 2 fuel oil; and,
 - b. beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the operating hours when burning No. 2 fuel oil.

Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative operating hours for each calendar month.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or No. 2 fuel oil was burned in this emission unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent by weight) and heat content (Btu/gallon) of each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:
 - a. the total quantity of oil received in each shipment (in gallons);
 - b. the weighted* average sulfur dioxide emission rate (pounds/mmBtu) for the oil received during the calendar month; and,
 - c. the weighted* average heat content (Btu/gallon) of the oil received during the calendar month.

*In proportion to the quantity of oil received in each shipment during the calendar month. These

quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the oil shipments received during the previous calendar quarters.

3. When burning No. 2 fuel oil, the permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative operating hours levels. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section A.1.
4. The permittee shall submit deviation (excursion) reports which identify all exceedances of the sulfur content limitation for No. 2 fuel oil combusted in this emissions unit.

E. Testing Requirements

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

- a. Emission Limitation:

0.020 lb/mmBtu of PM emissions when burning natural gas

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly natural gas usage of each emission unit (20922 ft³/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.4, Table 1.4-2 (7/98) emission factor for PM (7.6 lbs/mmft³). Then divide by 20.9 mmBtu/hr to determine the emission rate in pounds per mmBtu.

- b. Emission Limitation:

2.09 lb/hr of NO_x emissions when burning natural gas

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly natural gas usage of each emission unit (20922 ft³/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.4, Table 1.4-1 (7/98) emission factor for NO_x (100 lbs/mmft³).

c. Emission Limitation:

1.76 lb/hr of CO emissions when burning natural gas

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly natural gas usage of each emission unit (20922 ft³/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.4, Table 1.4-1 (7/98) emission factor for CO (84 lbs/mmft³).

d. Emission Limitation:

0.23 lb/hr of OC emissions when burning natural gas

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly natural gas usage of each emission unit (20922 ft³/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.4, Table 1.4-2 (7/98) emission factor for VOC (5.5 lbs/mmft³).

e. Emission Limitation:

0.01 lb/hr of SO₂ emissions when burning natural gas

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly natural gas usage of each emission unit (20922 ft³/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.4, Table 1.4-2 (7/98) emission factor for SO₂ (0.6 lbs/mmft³).

f. Emission Limitation:

0.020 lb/mmBtu of PM emissions when burning No. 2 fuel oil

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly No. 2 fuel oil burning capacity of each emissions unit (149.5 gals/hr) by

the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.3, Table 1.3-1 (9/98) emission factor for PM (2 lb/1000 gal). Then divide by 20.9 mmBtu/hr to determine the emission rate in pounds per mmBtu.

g. Emission Limitation:

3.0 lb/hr of NO_x emissions when burning No. 2 fuel oil

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly No. 2 fuel oil burning capacity of each emissions unit (149.5 gals/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.3, Table 1.3-1 (9/98) emission factor for NO_x (20 lb/1000 gal).

h. Emission Limitation:

0.75 lb/hr of CO emissions when burning No. 2 fuel oil

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly No. 2 fuel oil burning capacity of each emissions unit (149.5 gals/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.3, Table 1.3-1 (9/98) emission factor for CO (5 lb/1000 gal).

i. Emission Limitation:

0.08 lb/hr of OC emissions when burning No. 2 fuel oil

Applicable Compliance Method:

Compliance with the hourly emission limit shall be determined by multiplying the maximum hourly No. 2 fuel oil burning capacity of each emissions unit (149.5 gals/hr) by the USEPA Reference Document AP-42, 5th Edition Compilation of Air Pollution Emission Factors Section 1.3, Table 1.3-3 (9/98) emission factor for Total Organic Compounds (TOC) (0.556 lb/1000 gal).

j. Emission Limitation:

0.5 lb/mmBtu of SO₂ emissions when burning No. 2 fuel oil

Applicable Compliance Method:

When firing fuel oil, compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation, as required in Section C.2 above.

k. Emission Limitation:

20% opacity, as a six-minute average

Applicable Compliance Method:

Compliance shall be determined by visible emission observations performed in accordance with USEPA Reference Method 9 and the procedures specified in OAC Rule 3745-17-03)(B)(1).

l. Emission Limitation:

When burning natural gas (for B004, B005, and B006 combined):

PE	5.50 TPY
NO _x	27.46 TPY
CO	23.13 TPY
OC	3.02 TPY
SO ₂	0.13 TPY

Applicable Compliance Method:

The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours of operation per year and dividing by 2000 pounds per ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the pounds per hour limitation.

m. Emission Limitation:

When burning No. 2 fuel oil (for B004, B005, and B006 combined):

PE	0.99 TPY
NO _x	7.05 TPY

CO 1.77 TPY
OC 0.19 TPY
SO₂ 24.53 TPY

Applicable Compliance Method:

Compliance with the above annual limitations shall be based on the recordkeeping requirements in Section C.5 above. Provided compliance is maintained with the hourly emission rate, multiply the hourly emission rate by the actual annual hours of operation--when burning No. 2 fuel oil--and divide by 2000 lbs/ton.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A., B.2., C.2., C.3., D.2., D.3., D.4. and E.