



State of Ohio Environmental Protection Agency

Street Address:

Mailing Address:

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

Lazarus Gov.
Center

RE: **FINAL PERMIT TO INSTALL MODIFICATION** **CERTIFIED MAIL**
DEFIANCE COUNTY
Application No: 03-09789
Fac ID: 0320010118

DATE: 1/10/2006

Diehl, Inc
Mark Miller
24 North Clinton St
Defiance, OH 43512

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

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
309 South Fourth Street, Room 222
Columbus, Ohio 43215

Sincerely

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

CC: USEPA

NWDO



**Permit To Install
Terms and Conditions**

**Issue Date: 1/10/2006
Effective Date: 1/10/2006**

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 03-09789

Application Number: **03-09789**
APS Premise Number: **0320010118**
Permit Fee: **\$625**
Name of Facility: **Diehl, Inc Miller**
Person to Contact: **Mark**
Address: **24 North Clinton St
Defiance, OH 43512**

Location of proposed air contaminant source(s) [emissions unit(s)]:
**24 North Clinton St
Defiance, OHIO**

Description of modification:
Modification to adjust the scrubber and baghouse pressure drop ranges on P004 and P005.

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification 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 source(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 included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Diehl, Inc

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GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. 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.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCES

The proposed source(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 are inadequate or cannot meet applicable standards.

If the construction of the proposed source(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 Ohio Administrative Code (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 applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

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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.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

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.

PERMIT TO OPERATE APPLICATION AND OPERATION AFTER COMPLETION OF CONSTRUCTION

If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the source(s) covered by this permit.

SOURCE OPERATION 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 and regulations.

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Diehl, Inc** located in **DEFIANCE** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

Ohio
EPA
Source
Number

B002
(Modification)

B003
(Modification)

B004 (Modification)

B005 (Modification)

B006 (Modification)

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	P005	Source Identification <u>Description</u> 7.5 MMBTU/hr NG/#4 or #6 oil fired boiler; Boiler #1	7.5 MMBTU/hr NG/#4 or #6 oil fired boiler; Boiler #1	7.5 MMBTU/hr NG/#4 or #6 oil fired boiler; Boiler #1
	P006			
	P007			

P004

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Ohio EPA Source Number	Source Identification Number	BAT Determination	Applicable Federal & OAC Rules	Permit Allowable Mass Emissions and/or Control/Usage Requirements
7.5 MMBT U/hr NG/#4 or #6 oil fired boiler; Boiler #1	7.5 MMBTU/hr NG/#4 or #6 oil fired boiler; Boiler #1	Non dairy food product dryer; Coulter I dryer Non dairy food process cooler; Coulter I fluid bed Non dairy food products dryer; Coulter II dryer Non dairy food products dryer; D.J. dryer	BAT Determination Fuel specification requirements and compliance with the terms and conditions of this permit.	Fuel specification requirements and compliance with the terms and conditions of this permit.

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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and compliance with the terms and conditions of this permit.

Use of cyclones and compliance with the terms and conditions of this permit.

Fuel specification requirements and compliance with the terms and conditions of this permit.

Fuel specification requirements and compliance with the terms and conditions of this permit.

Fuel specification requirements and compliance with the terms and conditions of this permit.

Use of a scrubber and compliance with the terms and conditions of this permit.

Use of a baghouse and compliance with the terms and conditions of this permit.

Use of a baghouse

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
3745-31-05				3745-31-05
3745-17-10	3745-31-05		3745-31-05	3745-17-10
3745-17-07	3745-17-10	3745-31-05	3745-17-10	3745-17-07
3745-17-07	3745-17-07	3745-17-10	3745-17-07	
3745-17-07		3745-17-07		

Applicable
 Federal
 &
OAC
Rules

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
	Permit Allowable Mass Emissions and/or Control/Usage Requirements	0.18 TPY; SO ₂ - 0.004 lbs/hr, 0.02 TPY; CO - 0.15 lbs/hr, 0.66 TPY	20 percent opacity except as provided by rule; NO _x - 2.68 lbs/hr, 4.13 TPY; OC - 0.06 lb/hr, 0.09 TPY; SO ₂ - 16.28 lbs/hr, 2.17 lbs/MMBTU, 22.88 TPY;	OC - 0.06 lb/hr, 0.09 TPY; SO ₂ - 16.28 lbs/hr, 2.17 lbs/MMBTU, 22.88 TPY; CO - 0.24 lbs/hr, 0.38 TPY; (and Additional Special Terms and Conditions)
3745-31-05	When using #4 or #6 oil: *	PM - 0.92 lb/hr, 1.41 TPY; 20 percent opacity except as provided by rule; NO _x - 2.68 lbs/hr, 4.13 TPY;	OC - 0.06 lb/hr, 0.09 TPY; SO ₂ - 16.28 lbs/hr, 2.17 lbs/MMBTU, 22.88 TPY; CO - 0.24 lbs/hr, 0.38 TPY; (and Additional Special Terms and Conditions)	When Using NG: PM - 0.03 lb/hr, 0.14 TPY; 20 percent opacity except as provided by rule; NO _x - 0.74 lbs/hr, 3.24 TPY; OC - 0.04 lb/hr, 0.18 TPY;
3745-31-05	PM - 0.92 lb/hr, 1.41 TPY; 20 percent opacity except as provided by rule; NO _x - 2.68 lbs/hr, 4.13 TPY; OC - 0.06 lb/hr, 0.09 TPY;	When Using NG: PM - 0.03 lb/hr, 0.14 TPY; 20 percent opacity except as provided by rule; NO _x - 0.74 lbs/hr, 3.24 TPY;	When Using NG: PM - 0.03 lb/hr, 0.14 TPY; 20 percent opacity except as provided by rule; NO _x - 0.74 lbs/hr, 3.24 TPY; OC - 0.04 lb/hr, 0.18 TPY;	SO ₂ - 16.28 lbs/hr, 2.17 lbs/MMBTU, 22.88 TPY; CO - 0.24 lbs/hr, 0.38 TPY; (and Additional Special Terms and Conditions)
3745-31-05	SO ₂ - 16.28 lbs/hr, 2.17 lbs/MMBTU, 22.88 TPY; CO - 0.24 lbs/hr, 0.38 TPY; (and Additional Special Terms and Conditions)	OC - 0.04 lb/hr, 0.18 TPY; SO ₂ - 0.004 lbs/hr, 0.02 TPY; CO - 0.15 lbs/hr, 0.66 TPY	When Using #4 or #6 oil: *	When Using #4 or #6 oil: *
3745-31-05	When Using NG: PM - 0.03 lb/hr, 0.14 TPY; 20 percent opacity except as provided by rule; NO _x - 0.74 lbs/hr, 3.24 TPY; OC - 0.04 lb/hr, 0.09 TPY;	When Using #4 or #6 oil: *	When Using #4 or #6 oil: *	When Using #4 or #6 oil: *
3745-31-05	PM - 0.03 lb/hr, 0.14 TPY; 20 percent opacity except as provided by rule; NO _x - 0.74 lbs/hr, 3.24 TPY; OC - 0.04 lb/hr,	When Using #4 or #6 oil: *	When Using #4 or #6 oil: *	When Using #4 or #6 oil: *
		PM - 0.92 lb/hr, 1.41 TPY;	PM - 0.92 lb/hr, 1.41 TPY; 20 percent opacity except as provided by rule; NO _x - 2.68 lbs/hr, 4.13 TPY;	PM - 0.92 lb/hr, 1.41 TPY; 20 percent opacity except as provided by rule; NO _x - 2.68 lbs/hr, 4.13 TPY;

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
CO - 0.24 lbs/hr, 0.38 TPY; (and Addition al Special Terms and Conditio ns) When Using NG: PM - 0.03 lb/hr, 0.14 TPY; 20 percent opacity except as provided by rule; NOx - 0.74 lbs/hr, 3.24 TPY; OC - 0.04	lb/hr, 0.18 TPY; SO ₂ - 0.004 lbs/hr, 0.02 TPY; CO - 0.15 lbs/hr, 0.66 TPY PM - 2.70 lbs/hr, 11.83 TPY; NO _x - 1.80 lbs/hr, 7.88 TPY; OC - 0.04 lb/hr, 0.18 TPY; CO - 0.45 lb/hr, 1.97 TPY PM - 0.60 lb/hr, 2.63 TPY			

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PM -
2.70
lbs/hr,
11.83
TPY

PM -
1.24
lbs/hr,
5.43
TPY;

OC -
0.03
lb/hr,
0.13
TPY;

NO_x -
1.47
lbs/hr,
6.44
TPY;

CO -
0.37
lb/hr,
1.62
TPY

SUMMARY
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

* The TPY emissions limits for B002-B006 when using #4 or #6 oil are for all boilers combined. When using natural gas the TPY limits are for each individual boiler.

Pollutant

PM

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	<u>Tons/Year</u>
NO _x	
OC	
SO ₂	
CO	33.13
	30.52
	1.21
	22.88
	6.89

RECORD(S) RETENTION AND AVAILABILITY

All records required by this Permit to Install shall be retained on file for a period of not less than three years unless otherwise indicated by Ohio Environmental Protection Agency. All records shall be made available to the Director, or any representative of the Director, for review during normal business hours.

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Northwest District Office - DAPC, 347 North Dunbridge Road, Bowling Green, Ohio 43402.**

WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

MAINTENANCE OF EQUIPMENT

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Northwest District Office - DAPC, 347 North Dunbridge Road, Bowling Green, Ohio 43402.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

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AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

A. Introduction

1. This Permit to Install is required to correct permitting deficiencies resulting from the installation/modification of the emission units in this permit. These emissions units were installed and/or modified prior to obtaining the appropriate permits. The modifications were to the boilers (B002 through B006) by switching from #2 oil to #4 or #6 oil. Emission unit's P004 through P007 were previously unpermitted.
2. The TPY emissions limits for B002-B006 when using #4 or #6 oil are for all boilers combined. When using natural gas, the TPY limits are for each individual boiler.

B. Applicable Emission Limitations and/or Control Requirements

See Air Emission Summary section above.

C. Operational Restrictions

Oil Quality/Quantity Specifications (For Emissions Unit's B002 - B006)

1. The quality of the oil burned in these emissions units shall meet the following specifications on as "as-received" basis:
 - a. A sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 2.17 pounds sulfur dioxide/MMBTU actual heat input; and,
 - b. Greater than 140,596 Btu/gallon of oil.
- Compliance with the above-mentioned specifications shall be determined by using analytical results provided by the oil supplier for each shipment of oil.
2. The total combined maximum annual #4 or #6 oil usage for these emissions units shall not exceed 150,000 gallons/year based upon a rolling, 12 month summation of the oil usage figures.

Venturi/Packed Bed Scrubber Operational Restrictions (For Emission Unit P004)

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3. The pressure drop across the scrubber shall be continuously maintained within the range of 0.2 to 3 inches of water at all times while the emissions unit is in operation.

The scrubber water flow rate shall be continuously maintained at a value of not less than 200 gallons per minute at all times while the emissions unit is in operation.

Baghouse Operational Restrictions (For Emission Unit's P005 and P006)

4. The pressure drop across the baghouse controlling emission unit P005 shall be maintained within the range of 0.2 to 3 inches of water while the emissions unit is in operation.
5. The pressure drop across the baghouse controlling emissions unit P006 shall be maintained within the range of 2 to 5 inches of water while the emissions unit is in operation.

D. Monitoring and/or Recordkeeping Requirements

Oil Quality/Quantity Monitoring and Recordkeeping Requirements (For Emissions Unit's B002-B006)

1. The permittee shall maintain monthly records of the following information:
 - a. The #4 or #6 oil usage for each month; and,
 - b. The rolling, 12 month summation of their combined usage rates.
2. The permittee shall maintain copies of the oil supplier's analyses for each shipment of oil which is received for burning in these emissions units. The oil supplier's analyses shall document the sulfur content (percent), density (pounds/gallon), and heat content (Btu/gallon) of each shipment of oil.

Venturi/Packed Bed Scrubber Monitoring and Recordkeeping Requirements (For Emission Unit's P004)

3. The permittee shall properly install, operate and maintain equipment to monitor the static pressure drop across the scrubber and the scrubber water flow rate while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

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

- a. The pressure drop across the scrubber, in inches of water;

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

Baghouse Pressure Drop Monitoring and Recordkeeping Requirements (For Emission Unit's P005 and P006)

- 4. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual (s). The permittee shall record the pressure drop across the baghouse on daily basis.
- 5. 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 record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordkeeping, if a strip-chart recorder is employed, for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

E. Reporting Requirements

Oil Content and Usage Reporting Requirements (For Emission Unit's B002-B006)

- 1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the oil quantity specifications.
- 2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12 month usage rate limitation.

Venturi/Packed Bed Scrubber Reporting Requirements (For Emission Unit P004)

- 3. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:
 - a. The static pressure drop across the scrubber; and,
 - b. The scrubber water flow rate.

Baghouse Pressure Drop Reporting Requirements (For Emission Unit's P005 and P006)

- 4. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with

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the allowable range specified above.

5. 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 Ohio EPA, Northwest District Office; and,
- 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 Ohio EPA, Northwest District Office. 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.)

F. Testing Requirements/Compliance Method Determinations:

1. Compliance Methods Requirements:

Compliance with the emission limitation (s) found in the "Air Emissions Summary" of this permit shall be determined in accordance with the following method (s) :

For Emission Unit's B002-B006 when using #4 or #6 oil

a. Emission Limitations

0.92 pound PM/hour and 1.41 TPY

Applicable Compliance Method

Compliance with the emission limit of 0.92 pound PM/hr shall be determined in accordance with OAC 3745-17-03 (B)(10). In the absence of Ohio EPA requiring such testing, compliance for both the pounds/hour and TPY emissions limits shall be determined using calculations based on AP-42 emission factor, 5th Edition, table 1.3-1 and the maximum hourly and annual usage rates of #4 and #6 oil in the emissions unit.

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b. Emission Limitations

20 percent opacity, except as provided by rule

Applicable Compliance Method

OAC rule 3745-17-03 (B) (1)

c. Emission Limitations

2.68 pounds NO_x/ hour and 4.13 TPY

Applicable Compliance Method

The test method employed to demonstrate compliance with the emission limit of 2.68 pounds NO_x /hour shall be Method 7 which is located in 40 CFR Part 60, Appendix A. In the absence of Ohio EPA requiring such testing, compliance for both the pounds/hour and TPY emissions limits shall be determined using calculations, based on AP-42 emission factors (table 1.3-1) and the maximum hourly and annual usage rates of #4 and #6 oil in the emissions unit.

d. Emission Limitations

0.06 pound OC/Hour and 0.09 TPY

Applicable Compliance Method

The test method employed to demonstrate compliance with the emissions limit of 0.06 pound OC/hour shall be Method 25 or 25A which is located in 40 CFR Part 60, Appendix A. In the absence of Ohio EPA requiring such testing compliance for both the pounds/hour and TPY emissions limits shall be determined using calculations, based on AP-42 emissions factors (table 1.3-2) and the maximum hourly and annual usage rates of #4 and #6 oil in the emissions unit.

e. Emission Limitations

16.28 pounds SO₂/hour and 22.88 TPY

Applicable Compliance Method

The test method employed to demonstrate compliance with the emission limit of 16.28 pounds SO₂/hour shall be Method 6 which is located in 40 CFR Part 60, Appendix A. In the absence of Ohio EPA requiring such testing, compliance with the pounds/hour emissions limit shall be determined using calculations, based on

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Ohio Administrative Code 3745-18-04 (F) (2) and the maximum hourly heat input capacity of the emissions unit (7.5 MMBTU/hour). The annual TPY compliance determination shall be made using the following equation:

$$E \text{ (TPY)} = SC \times AGU \times HC \times 1/2000$$

Where:

E (TPY) = Sulfur dioxide emission rate (TPY)

SC = Sulfur content in pounds/MMBTU of the #4 and #6 oil

AGU - Annual Gallon Usage of #4 and #6 oil

HC = Heat content of #4 and #6 oil in Btu/gallon

f. Emission Limitations

2.17 pounds SO₂/MMBTU

Applicable Compliance Method

OAC rule 3745-18-04 (F) (2)

g. Emission Limitations

0.24 pound CO/hour and 0.38 TPY

Applicable Compliance Method

The test method employed to demonstrate compliance with the emission limit of 0.24 pound Co/hour shall be Method 10 which is located in 40 CFR Part 60, Appendix A. In the absence of Ohio EPA requiring such testing, compliance for both the pounds/hour and TPY emissions limits shall be determined using calculations, based on AP-42 emission factors (table 1.3-1) and the maximum hourly and annual usage rates of #4 and #6 oil in the emissions unit.

For Emission Unit's B002- B006 when using NG

h. Emission Limitations

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0.03 pound PM/hour and 0.14 TPY

Applicable Compliance Method

Compliance with the emission limit of 0.03 pound PM/hour shall be determined in accordance with OAC 3745-17-03 (B) (10). In the absence of Ohio EPA requiring such testing, compliance for both pounds/hour and TPY emission limits shall be determined using calculations based on AP-42 emission factor, 5th edition, table 1.4-2 and the maximum hourly and annual usage rates of NG in the emissions unit.

i. Emission Limitations

0.74 pound NO_x/hour and 3.24 TPY

Applicable Compliance Method

The test method employed to demonstrate compliance with the emission limit of 0.74 pound NO_x/hour shall be Method 7 which is located in 40 CFR Part 60, Appendix A. In the absence of Ohio EPA requiring such testing, compliance for both the pounds/hour and TPY emissions limits shall be determined using calculations, based on AP-42 emission factors (table 1.4-1) and the maximum hourly and annual usage rates of NG in the emissions unit.

j. Emission Limitations

0.04 pound OC/hour and 0.18 TPY

Applicable Compliance Method

The test method employed to demonstrate compliance with the emission limit of 0.04 pound OC/hour shall be Method 25 or 25A which is located in 40 CFR Part 60, Appendix A. In the absence of Ohio EPA requiring such testing, compliance for both the pounds/hour and TPY emissions limits shall be determined using calculations, based on AP-42 emission factors (table 1.4-1) and the maximum hourly and annual usage rates of NG in the emissions unit.

k. Emission Limitations

0.004 pound SO₂/ hour and 0.02 TPY

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Applicable Compliance Method

OAC rule 3745-18-04 (F) (4)

l. Emission Limitations

0.15 pound CO/hour and 0.66 TPY

Applicable Compliance Method

The test method employed to demonstrate compliance with the emission limit of 0.15 pound CO/hour shall be Method 10 which is located in 40 CFR Part 60, Appendix A. In the absence of Ohio EPA requiring such testing, compliance for the both the pounds/hour and TPY emissions limits shall be determined using calculation, based on AP-42 emission factors (table 1.4-1) and the maximum hourly and annual usage rates of NG in the emissions unit.

For Emission Unit P004

m. Emission Limitations

2.70 pounds PM/hour and 11.83 TPY

The hourly PM emission limit 2.70 pounds in this permit is based on an estimated maximum uncontrolled mass rate of emissions of 270 pounds/hour and a control efficiency of the packed bed scrubber of 99 percent. The annual PM emissions limit of 11.83 tons per year is based on the hourly emission limit and the assumption the unit may operate 8760 hours per year.

Applicable Compliance Method

Compliance with the emission limit of 2.70 pounds PM/hour shall be determined in accordance with OAC 3745-17-03 (B) (10). In the absence of Ohio EPA requiring such testing, the permittee may calculate actual PM emission rates for the unit utilizing the method specified above.

n. Emission Limitations

1.80 pounds NO_x/hour and 7.88 TPY

Applicable Compliance Method

The test method employed to demonstrate compliance with the emission limit of 1.80 pounds NO_x/hour shall be Method 7 which is located in 40 CFR Part 60,

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Appendix A. In the absence of Ohio EPA requiring such testing, compliance for both the pounds/hour and TPY emissions limits shall be determined using calculations, based on AP-42 emission factors (table 1.4-1) and the maximum hourly and annual usage rates of NG in the emissions unit.

o. Emission Limitations

0.04 pound OC/hour and 0.18 TPY

Applicable Compliance Method

The test method employed to demonstrate compliance with the emission limit of 0.04 pound OC/hour shall be Method 25 or 25A which is located in 40 CFR Part 60, Appendix A. In the

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absence of Ohio EPA requiring such testing, compliance for both the pounds/hour and TPY emissions limits shall be determined using calculations, based on AP-42 emission factors (table 1.4-1) and the maximum hourly and annual usage rates of NG in the emissions unit.

p. Emission Limitations

0.45 pound CO/hour and 1.97 TPY

Applicable Compliance Method

The test method employed to demonstrate compliance with the emission limit of 0.45 pound CO/hour shall be Method 10 which is located in 40 CFR Part 60, Appendix A. In the absence of Ohio EPA requiring such testing, compliance for both the pounds/hour and TPY emissions limits shall be determined using calculations, based on AP-42 emission factors (table 1.4-1) and the maximum hourly and annual usage rates of NG in the emission unit.

For Emission Unit P005

q. Emission Limitations

0.60 pound PM/hour and 2.63 TPY

The hourly PM emission limit of 0.60 pound in this permit is based on an estimated maximum uncontrolled mass rate of emissions of 500 pounds/hour and a control efficiency of the baghouse of 99.9 percent. The annual PM emissions limit of 2.63 tons per year is based on the hourly emission limit and the assumption the unit may operate 8760 hours per year.

Applicable Compliance Method

Compliance with the emission limit of 0.60 pound PM/hour shall be determined in accordance with OAC 3745-17-03 (B) (10). In the absence of Ohio EPA requiring such testing, the permittee may calculate actual PM emission rates for the unit utilizing the method specified above.

For Emission Unit P006

r. Emission Limitations

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2.70 pounds PM/hour and 11.83 TPY

The hourly PM emission limit of 270 pounds in this permit is based on an estimated maximum uncontrolled mass rate of emissions of 270 pounds/hour and a control efficiency

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of the baghouse of 99 percent. The annual PM emissions limit of 11.83 tons per year is based on the hourly emission limit and the assumption the unit may operate 8760 hours per year.

Applicable Compliance Method

Compliance with the emission limit of 2.70 pounds PM/hour shall be determined in accordance with OAC 3745-17-03 (B) (10). In the absence of Ohio EPA requiring such testing, the permittee may calculate actual PM emission rates for the unit utilizing the method specified above.

For Emission Unit P007

s. Emission Limitations

1.24 pounds PM/Hour and 5.43 TPY

The hourly PM emission limit of 1.24 pounds in this permit is based on an estimated maximum uncontrolled mass rate of emissions of 62 pounds/hour and a control efficiency of the three high efficiency cyclones of 98 percent. The annual PM emissions limit of 5.43 tons per year is based on the hourly emission limit and the assumption the unit may operate 8760 hours per year.

Applicable Compliance Method

Compliance with the emission limit of 1.24 pounds PM/hour shall be determined in accordance with OAC 3745-17-03 (B) (10). In the absence of Ohio EPA requiring such testing, the permittee may calculable actual PM emission rates for the unit utilizing the method specified above.

t. Emission Limitations

1.47 pounds NOx/hour and 6.44 TPY

Applicable Compliance Method

The test method employed to demonstrate compliance with the emission limit of 1.47 pounds NOx/hour shall be Method 7 which is located in 40 CFR Part 60, Appendix A. In the absence of Ohio EPA requiring such testing, compliance for both the pounds/hour and TPY emissions limits shall be determined using

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calculations, based on AP-42 emission factors (table 1.4-1) and the maximum hourly and annual usage rates of NG in the emissions unit.

u. Emission Limitations

0.03 pound OC/hour and 0.13 TPY

Applicable Compliance Method

The test method employed to demonstrate compliance with the emission limit of 0.03 pound OC/hour shall be Method 25 or 25A which is located in 40 CFR Part 60, Appendix A. In the absence of Ohio EPA requiring such testing, compliance for both the pounds/hour and TPY emissions limits shall be determined using calculations, based on AP-42 emission factors (table 1.4-1) and the maximum hourly and annual usage rates of NG in the emissions unit.

v. Emission Limitations

0.37 pound CO/hour and 1.62 TPY

Applicable Compliance Method

The test method employed to demonstrate compliance with the emission limit of 0.37 pound CO/hour shall be Method 10 which is located in 40 CFR Part 60, Appendix A. In the absence of Ohio EPA requiring such testing, compliance for both the pounds/hour and TPY emissions limits shall be determined using calculations, based on AP-42 emission factors (table 1.4-1) and the maximum hourly and annual usage rates of NG in the emissions unit.

G. Miscellaneous Requirements

1. Permit allowables (except for SO₂ * when using #4 or #6 oil) for emission unit's B002-B006 were determined using AP42 emission factors. If these factors change at any time in the future, new allowables for the emission unit's will be given based on the new emission factors.

* Permit allowable for SO₂, when using #4 or #6 oil, was calculated using the formula in Ohio Administrative Code 3745-18-08 (F) (2).