



State of Ohio Environmental Protection Agency

**Miami County**

**RE: Final Permit to Install**

Street  
1800 \\  
Column

address:  
149  
16-1049

Application No: **08-3990**

DATE: **June 16, 1999**

**ITW Welding Products Group - Piqua Filler Metals Operation**  
**Timothy J. McKee**  
**101 Trade Square East**  
**Troy, Ohio 45373**

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 Director's 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,

Thomas G. Rigo, Manager  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: USEPA

**Regional Air Pollution Control Agency**



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Application Number: 08-3990

Per  
Title

APS Premise 0855100420

Number:

Permit Fee: **\$3600**

Name of Facility: ITW Welding Products Group - Piqua Filler Metals Operation

Person to Contact: Timothy J. McKee

Address: 101 Trade Square East

Troy, Ohio 45373

Location of proposed air contaminant source(s) [emissions unit(s)]:

**8585 Industry Park Drive**

**Piqua, Ohio**

Description of proposed emissions unit(s):

**TUBULAR WIRE DRAW BENCHES WITH FABRIC FILTER CONTROL.**

Date of Issuance: June 16, 1999

Issuance:

Effective Date: June 16, 1999

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

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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 Related to Monitoring and Recordkeeping 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 are inadequate 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 prove to be inadequate 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 application must be made to the Director for the installation or modification of any other emissions unit(s).

#### **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 thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

**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>
particulates	1.26

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
Tubular wire draw benches M1, M2, M3, and M4, with fabric filter (D3) control	OAC rule 3745-31-05	0.05 lb/hour particulate emissions, and 0.22 TPY particulate emissions;
		visible emissions shall not exceed 5% opacity, as a six-minute average from the baghouse exhaust
	OAC rule 3745-17-11(B)(1)	
		less stringent than the particulate limit established above as BAT under 3745-31-05
	OAC rule 3745-17-07	less stringent than the visible emissions limit established above as BAT under 3745-31-05

**2. Additional Terms and Conditions**

- 2.a Compliance with OAC rule 3745-31-05 shall be demonstrated by the use of a baghouse control device, pressure drop monitoring, record keeping, and reporting, and compliance with the limits in A.1.

**B. Operational Restrictions**

- 1. The pressure drop across the baghouse shall be maintained within the range of 3 to 4

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Emissions Unit ID: **P008**

inches of water while the emissions unit is in operation.

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

1. 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 a daily basis.

**D. Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These quarterly deviation (excursion) reports shall be submitted in accordance with Section A.2. of the General Terms and Conditions.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation

0.05 lb/hour particulate emissions

Applicable Compliance Method

Compliance with this mass limitation shall be determined by multiplying the maximum combined hourly process weight of 1615 pounds by a site-specific mass balance emission factor of 0.000131 lb particulate per lb of product. The result, 2.12 lbs/hour is then multiplied by a control efficiency of 98% (1 - 0.98), for a calculated controlled emission rate of 0.042 lb/hour. If required, compliance with these mass emission limitations shall be based on stack testing per OAC rule 3745-17-03(B)(10).

b. Emission Limitation

0.22 TPY particulate emissions

Applicable Compliance Method

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Emissions Unit ID: **P008**

The 0.22 TPY emission limitation was developed by multiplying the 0.05 lb/hour emission limit by the maximum operating schedule of 8,760 hours/year, divided by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance is also shown with the annual limitation.

c. Emission Limitation

5% opacity as a six-minute average

Applicable Compliance Method

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

**F. Miscellaneous Requirements**

1. The permittee shall implement a preventive maintenance plan for this emissions unit and its respective air pollution control system. The preventive maintenance plan shall include, but not be limited to, the specific steps taken and/or the specific items checked on a routine basis to ensure optimum operation of the emissions unit and its respective air pollution control system. The preventive maintenance plan shall be submitted to the Regional Air Pollution Control Agency in conjunction with the subsequent permit to operate application.

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

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
Tubular wire draw benches M10, M11, M12, and M13, with fabric filter (D6) control	OAC rule 3745-31-05	0.09 lb/hour particulate emissions, and 0.39 TPY particulate emissions;
	OAC rule 3745-17-11(B)(1)	visible emissions shall not exceed 5% opacity, as a six-minute average from the baghouse exhaust
	OAC rule 3745-17-07	less stringent than the particulate limit established above as BAT under 3745-31-05
		less stringent than the visible emissions limit established above as BAT under 3745-31-05

**2. Additional Terms and Conditions**

- 2.a Compliance with OAC rule 3745-31-05 shall be demonstrated by the use of a baghouse control device, pressure drop monitoring, record keeping, and reporting, and compliance with the limits in A.1.

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 3 to 4 inches of water while the emissions unit is in operation.

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June 16, 1999

Emissions Unit ID: **P009**

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

1. 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 a daily basis.

**D. Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These quarterly deviation (excursion) reports shall be submitted in accordance with Section A.2. of the General Terms and Conditions.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation

0.09 lb/hour particulate emissions

Applicable Compliance Method

Compliance with this mass limitation shall be determined by multiplying the maximum combined hourly process weight of 1385 pounds by a site-specific mass balance emission factor of 0.00298 lb particulate per lb of product. The result, 4.13 lbs/hour is then multiplied by a control efficiency of 98% (1 - 0.98), for a calculated controlled emission rate of 0.083 lb/hour. If required, compliance with these mass emission limitations shall be based on stack testing per OAC rule 3745-17-03(B)(10).

- b. Emission Limitation

0.39 TPY particulate emissions

Applicable Compliance Method

The 0.39 TPY emission limitation was developed by multiplying the 0.09 lb/hour emission limit by the maximum operating schedule of 8,760 hours/year, divided by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance is also shown with the annual limitation.

c. Emission Limitation

5% opacity, as a six-minute average

Applicable Compliance Method

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

**F. Miscellaneous Requirements**

1. The permittee shall implement a preventive maintenance plan for this emissions unit and its respective air pollution control system. The preventive maintenance plan shall include, but not be limited to, the specific steps taken and/or the specific items checked on a routine basis to ensure optimum operation of the emissions unit and its respective air pollution control system. The preventive maintenance plan shall be submitted to the Regional Air Pollution Control Agency in conjunction with the subsequent permit to operate application.

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

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
Tubular wire draw bench M5 with fabric filter (D5) control	OAC rule 3745-31-05	0.03 lb/hour particulate emissions, and 0.15 TPY particulate emissions;
	OAC rule 3745-17-11(B)(1)	visible emissions shall not exceed 5% opacity, as a six-minute average from the baghouse exhaust (see A.2.b.)
	OAC rule 3745-17-07	less stringent than the particulate limit established above as BAT under 3745-31-05
		less stringent than the visible emissions limit established above as BAT under 3745-31-05

**2. Additional Terms and Conditions**

- 2.a Compliance with OAC rule 3745-31-05 shall be demonstrated by the use of a baghouse control device, pressure drop monitoring, record keeping, and reporting, and compliance with the limits in A.1.
- 2.b. The particulate emissions from emissions units P010, P011, P012, P013, and P014 are controlled through the application of a common baghouse. The 5% opacity visible emissions limitation applies to the common egress point of the baghouse shared by emissions units P010, P011, P012, P013, and P014.

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June 16, 1999

Emissions Unit ID: **P010**

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 3 to 4 inches of water while the emissions unit is in operation.

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

1. 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 a daily basis.

**D. Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These quarterly deviation (excursion) reports shall be submitted in accordance with Section A.2. of the General Terms and Conditions.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation

0.03 lb/hour particulate emissions

Applicable Compliance Method

Compliance with this mass limitation shall be determined by multiplying the maximum combined hourly process weight of 420 pounds by a site-specific mass balance emission factor of 0.00297 lb particulate per lb of product. The result, 1.25 lbs/hour is then multiplied by a control efficiency of 98% (1 - 0.98), for a calculated controlled emission rate of 0.025 lb/hour. If required, compliance with these mass emission limitations shall be based on stack testing per OAC rule 3745-17-03(B)(10).

b. Emission Limitation

0.15 TPY particulate emissions

Applicable Compliance Method

The 0.15 TPY emission limitation was developed by multiplying the 0.03 lb/hour emission limit by the maximum operating schedule of 8,760 hours/year, divided by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance is also shown with the annual limitation.

c. Emission Limitation

5% opacity, as a six-minute average

Applicable Compliance Method

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

**F. Miscellaneous Requirements**

1. The permittee shall implement a preventive maintenance plan for this emissions unit and its respective air pollution control system. The preventive maintenance plan shall include, but not be limited to, the specific steps taken and/or the specific items checked on a routine basis to ensure optimum operation of the emissions unit and its respective air pollution control system. The preventive maintenance plan shall be submitted to the Regional Air Pollution Control Agency in conjunction with the subsequent permit to operate application.

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

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
Tubular wire draw bench M6 with fabric filter (D5) control	OAC rule 3745-31-05	0.03 lb/hour particulate emissions, and 0.15 TPY particulate emissions;
	OAC rule 3745-17-11(B)(1)	visible emissions shall not exceed 5% opacity, as a six-minute average from the baghouse exhaust (see A.2.b.)
	OAC rule 3745-17-07	less stringent than the particulate limit established above as BAT under 3745-31-05
		less stringent than the visible emissions limit established above as BAT under 3745-31-05

**2. Additional Terms and Conditions**

- 2.a Compliance with OAC rule 3745-31-05 shall be demonstrated by the use of a baghouse control device, pressure drop monitoring, record keeping, and reporting, and compliance with the limits in A.1.
- 2.b. The particulate emissions from emissions units P010, P011, P012, P013, and P014 are controlled through the application of a common baghouse. The 5% opacity visible emissions limitation applies to the common egress point of the baghouse shared by emissions units P010, P011, P012, P013, and P014.

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PTI

June 16, 1999

Emissions Unit ID: **P011**

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 3 to 4 inches of water while the emissions unit is in operation.

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

1. 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 a daily basis.

**D. Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These quarterly deviation (excursion) reports shall be submitted in accordance with Section A.2. of the General Terms and Conditions.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation

0.03 lb/hour particulate emissions

Applicable Compliance Method

Compliance with this mass limitation shall be determined by multiplying the maximum combined hourly process weight of 395 pounds by a site-specific mass balance emission factor of 0.00297 lb particulate per lb of product. The result, 1.17 lbs/hour is then multiplied by a control efficiency of 98% (1 - 0.98), for a calculated controlled emission rate of 0.0234 lb/hour. If required, compliance with these mass emission limitations shall be based on stack testing per OAC rule 3745-17-03(B)(10).

b. Emission Limitation

0.15 TPY particulate emissions

Applicable Compliance Method

The 0.15 TPY emission limitation was developed by multiplying the 0.03 lb/hour emission limit by the maximum operating schedule of 8,760 hours/year, divided by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance is also shown with the annual limitation.

c. Emission Limitation

5% opacity, as a six-minute average

Applicable Compliance Method

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

**F. Miscellaneous Requirements**

1. The permittee shall implement a preventive maintenance plan for this emissions unit and its respective air pollution control system. The preventive maintenance plan shall include, but not be limited to, the specific steps taken and/or the specific items checked on a routine basis to ensure optimum operation of the emissions unit and its respective air pollution control system. The preventive maintenance plan shall be submitted to the Regional Air Pollution Control Agency in conjunction with the subsequent permit to operate application.

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

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
Tubular wire draw bench M7 with fabric filter (D5) control	OAC rule 3745-31-05	0.03 lb/hour particulate emissions, and 0.15 TPY particulate emissions;
	OAC rule 3745-17-11(B)(1)	visible emissions shall not exceed 5% opacity, as a six-minute average from the baghouse exhaust (see A.2.b.)
	OAC rule 3745-17-07	less stringent than the particulate limit established above as BAT under 3745-31-05
		less stringent than the visible emissions limit established above as BAT under 3745-31-05

**2. Additional Terms and Conditions**

- 2.a Compliance with OAC rule 3745-31-05 shall be demonstrated by the use of a baghouse control device, pressure drop monitoring, record keeping, and reporting, and compliance with the limits in A.1.
- 2.b. The particulate emissions from emissions units P010, P011, P012, P013, and P014 are controlled through the application of a common baghouse. The 5% opacity visible emissions limitation applies to the common egress point of the baghouse shared by emissions units P010, P011, P012, P013, and P014.

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 3 to 4 inches of water while the emissions unit is in operation.

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

1. 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 a daily basis.

**D. Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These quarterly deviation (excursion) reports shall be submitted in accordance with Section A.2. of the General Terms and Conditions.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation

0.03 lb/hour particulate emissions

Applicable Compliance Method

Compliance with this mass limitation shall be determined by multiplying the maximum combined hourly process weight of 460 pounds by a site-specific mass balance emission factor of 0.00297 lb particulate per lb of product. The result, 1.37 lbs/hour is then multiplied by a control efficiency of 98% (1 - 0.98), for a calculated controlled emission rate of 0.0274 lb/hour. If required, compliance with these mass emission limitations shall be based on stack testing per OAC rule 3745-17-03(B)(10).

- b. Emission Limitation

0.15 TPY particulate emissions

Applicable Compliance Method

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June 16, 1999

Emissions Unit ID: **P012**

The 0.15 TPY emission limitation was developed by multiplying the 0.03 lb/hour emission limit by the maximum operating schedule of 8,760 hours/year, divided by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance is also shown with the annual limitation.

c. Emission Limitation

5% opacity, as a six-minute average

Applicable Compliance Method

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

**F. Miscellaneous Requirements**

1. The permittee shall implement a preventive maintenance plan for this emissions unit and its respective air pollution control system. The preventive maintenance plan shall include, but not be limited to, the specific steps taken and/or the specific items checked on a routine basis to ensure optimum operation of the emissions unit and its respective air pollution control system. The preventive maintenance plan shall be submitted to the Regional Air Pollution Control Agency in conjunction with the subsequent permit to operate application.

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

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
Tubular wire draw bench M8 with fabric filter (D5) control	OAC rule 3745-31-05	0.03 lb/hour particulate emissions, and 0.15 TPY particulate emissions;
	OAC rule 3745-17-11(B)(1)	visible emissions shall not exceed 5% opacity, as a six-minute average from the baghouse exhaust (see A.2.b.)
	OAC rule 3745-17-07	less stringent than the particulate limit established above as BAT under 3745-31-05
		less stringent than the visible emissions limit established above as BAT under 3745-31-05

**2. Additional Terms and Conditions**

- 2.a Compliance with OAC rule 3745-31-05 shall be demonstrated by the use of a baghouse control device, pressure drop monitoring, record keeping, and reporting, and compliance with the limits in A.1.
- 2.b The particulate emissions from emissions units P010, P011, P012, P013, and P014 are controlled through the application of a common baghouse. The 5% opacity visible emissions limitation applies to the common egress point of the baghouse shared by emissions units P010, P011, P012, P013, and P014.

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 3 to 4 inches of water while the emissions unit is in operation.

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

1. 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 a daily basis.

**D. Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These quarterly deviation (excursion) reports shall be submitted in accordance with Section A.2. of the General Terms and Conditions.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation

0.03 lb/hour particulate emissions

Applicable Compliance Method

Compliance with this mass limitation shall be determined by multiplying the maximum combined hourly process weight of 420 pounds by a site-specific mass balance emission factor of 0.00297 lb particulate per lb of product. The result, 1.25 lbs/hour is then multiplied by a control efficiency of 98% (1 - 0.98), for a calculated controlled emission rate of 0.025 lb/hour. If required, compliance with these mass emission limitations shall be based on stack testing per OAC rule 3745-17-03(B)(10).

b. Emission Limitation

0.15 TPY particulate emissions

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Emissions Unit ID: **P013**

Applicable Compliance Method

The 0.15 TPY emission limitation was developed by multiplying the 0.03 lb/hour emission limit by the maximum operating schedule of 8,760 hours/year, divided by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance is also shown with the annual limitation.

c. Emission Limitation

5% opacity, as a six-minute average

Applicable Compliance Method

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

**F. Miscellaneous Requirements**

1. The permittee shall implement a preventive maintenance plan for this emissions unit and its respective air pollution control system. The preventive maintenance plan shall include, but not be limited to, the specific steps taken and/or the specific items checked on a routine basis to ensure optimum operation of the emissions unit and its respective air pollution control system. The preventive maintenance plan shall be submitted to the Regional Air Pollution Control Agency in conjunction with the subsequent permit to operate application.

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

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
Tubular wire draw bench M9 with fabric filter (D5) control	OAC rule 3745-31-05	0.03 lb/hour particulate emissions, and 0.15 TPY particulate emissions;  visible emissions shall not exceed 5% opacity, as a six-minute average from the baghouse exhaust (see A.2.b.)
	OAC rule 3745-17-11(B)(1)	less stringent than the particulate limit established above as BAT under 3745-31-05
	OAC rule 3745-17-07	less stringent than the visible emissions limit established above as BAT under 3745-31-05

**2. Additional Terms and Conditions**

- 2.a Compliance with OAC rule 3745-31-05 shall be demonstrated by the use of a baghouse control device, pressure drop monitoring, record keeping, and reporting, and compliance with the limits in A.1.
- 2.b. The particulate emissions from emissions units P010, P011, P012, P013, and P014 are controlled through the application of a common baghouse. The 5% opacity visible emissions limitation applies to the common egress point of the baghouse shared by emissions units P010, P011, P012, P013, and P014.

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 3 to 4 inches of water while the emissions unit is in operation.

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

1. 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 a daily basis.

**D. Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These quarterly deviation (excursion) reports shall be submitted in accordance with Section A.2. of the General Terms and Conditions.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation

0.03 lb/hour particulate emissions

Applicable Compliance Method

Compliance with this mass limitation shall be determined by multiplying the maximum combined hourly process weight of 415 pounds by a site-specific mass balance emission factor of 0.00297 lb particulate per lb of product. The result, 1.23 lbs/hour is then multiplied by a control efficiency of 98% (1 - 0.98), for a calculated controlled emission rate of 0.0246 lb/hour. If required, compliance with these mass emission limitations shall be based on stack testing per OAC rule 3745-17-03(B)(10).

- b. Emission Limitation

0.15 TPY particulate emissions

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Emissions Unit ID: **P014**

Applicable Compliance Method

The 0.15 TPY emission limitation was developed by multiplying the 0.03 lb/hour emission limit by the maximum operating schedule of 8,760 hours/year, divided by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance is also shown with the annual limitation.

c. Emission Limitation

5% opacity, as a six-minute average

Applicable Compliance Method

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

**F. Miscellaneous Requirements**

1. The permittee shall implement a preventive maintenance plan for this emissions unit and its respective air pollution control system. The preventive maintenance plan shall include, but not be limited to, the specific steps taken and/or the specific items checked on a routine basis to ensure optimum operation of the emissions unit and its respective air pollution control system. The preventive maintenance plan shall be submitted to the Regional Air Pollution Control Agency in conjunction with the subsequent permit to operate application.