



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL MODIFICATION  
WAYNE 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: 02-20635**

**Fac ID: 0285030313**

**DATE: 5/11/2006**

LuK, Inc.  
Thomas Buchanan  
3401 Old Airport Rd  
Wooster, OH 44691

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

NEDO



**Permit To Install  
Terms and Conditions**

**Issue Date: 5/11/2006  
Effective Date: 5/11/2006**

**FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 02-20635**

Application Number: 02-20635  
Facility ID: 0285030313  
Permit Fee: **\$0**  
Name of Facility: LuK, Inc.  
Person to Contact: Thomas Buchanan  
Address: 3401 Old Airport Rd  
Wooster, OH 44691

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**3401 Old Airport Rd  
Wooster, Ohio**

Description of proposed emissions unit(s):  
**Administrative Modification to PTI No. 02-20635.**

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

LuK, Inc.

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Facility ID: 028503031

## 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

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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)**

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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.

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**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.

**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>
PE	5.68
VOC	11.21

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
P006 - Jet Wheelblast equipped with 1,390 acfm fabric filter baghouse	OAC rule 3745-31-05(A)(3)	PE: 0.05 lb/hr, 0.22 tpy  Visible particulate emissions from the baghouse stack shall not exceed 5% opacity as a 6-minute average.  See Section A.2.a.and b. below.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

## **2. Additional Terms and Conditions**

- 2.a** No visible particulate emissions of fugitive dust shall be emitted from this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.
- 2.b** The collection efficiency of the fabric filter baghouse shall be sufficient to minimize or eliminate visible particulate emissions. The baghouse shall be in a good working condition and in full operation whenever this emissions unit is operating.

## **B. Operational Restrictions**

1. The fabric filter baghouse associated with this emissions unit shall be in full operation and effectively capturing particulate matters whenever this emissions unit is operating.

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

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from any building openings housing this emissions unit. These building openings shall include, but not limited to, doorways, windows, and roof monitors. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall perform weekly checks, when this emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;

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- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to eliminate the visible emissions.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify each day during which the Jet Wheelblast machine operated without the use of a fabric filter baghouse. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after each occurrence.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from any building openings housing this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit semiannual written reports that (a) identify all weeks during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

**E. Testing Requirements**

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

1. Emission Limitation:

PE: 0.05 pound per hour

Applicable Compliance Method:

To determine the hourly particulate emissions rate for this emissions unit, the following equation may be used:

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Emissions Unit ID: P006

$$E = A \cdot (1 - 99.5\%)$$

where:

E = particulate emissions (lb/hr)

A = 10.5 lbs/hr uncontrolled rate emission factor (manufacturer's specification)

99.5% = fabric filter baghouse control efficiency

If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 5.

2. Emission Limitation:

PE: 0.22 ton per year

**Applicable Compliance Method:**

This limit is based on the allowable hourly emission limit (0.05 lb/hr) multiplied by the maximum possible operating hours (8760 hrs/yr), and dividing by 2000 (lbs/ton). Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

**3. Emission Limitation:**

Visible particulate emissions from any stack shall not exceed 5% opacity as a six-minute average.

**Applicable Compliance Method:**

Compliance with the visible emission limitation for this emissions unit shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996.

**F. Miscellaneous Requirements**

None

**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>
P007 - Shot Peen Machine equipped with 4,000 acfm fabric filter baghouse	OAC rule 3745-31-05(A)(3)	PE: 0.05 lb/hr, 0.22 tpy  Visible particulate emissions from the baghouse stack shall not exceed 5% opacity as a 6-minute average.  See Section A.2.a.and b. below.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a** No visible particulate emissions of fugitive dust shall be emitted from this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.
- 2.b** The collection efficiency of the fabric filter baghouse shall be sufficient to minimize or eliminate visible particulate emissions. The baghouse shall be in a good working condition and in full operation whenever this emissions unit is operating.

**B. Operational Restrictions**

1. The fabric filter baghouse associated with this emissions unit shall be in full operation and effectively capturing particulate matters whenever this emissions unit is operating.

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

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from any building openings housing this emissions unit. These building openings shall include, but not limited to, doorways, windows, and roof monitors. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall perform weekly checks, when this emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

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- a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
3. The permittee shall maintain records whenever this emissions unit operated without use of the fabric filter baghouse to effectively capture the particulate matter emissions.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify each day during which the Shot Peen machine operated without the use of a fabric filter baghouse. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after each occurrence.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from any building openings housing this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit semiannual written reports that (a) identify all weeks during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

**E. Testing Requirements**

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

1. Emission Limitation:

PE: 0.05 pound per hour

Applicable Compliance Method:

**LuK, I****PTI A****Modification Issued: 5/11/2006**Emissions Unit ID: **P007**

To determine the hourly particulate emissions rate for this emissions unit, the following equation may be used:

$$E = A \cdot (1 - 99.5\%)$$

where:

E = particulate emissions (lb/hr)

A = 10.5 lbs/hr uncontrolled rate emission factor (manufacturer's specification)

99.5% = fabric filter baghouse control efficiency

If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 5.

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## 2. Emission Limitation:

PE: 0.22 ton per year

Applicable Compliance Method:

This limit is based on the allowable hourly emission limit (0.05 lb/hr) multiplied by the maximum possible operating hours (8760 hrs/yr), and dividing by 2000 (lbs/ton). Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

## 3. Emission Limitation:

Visible particulate emissions from any stack shall not exceed 5% opacity as a six-minute average.

Applicable Compliance Method:

Compliance with the visible emission limitation for this emissions unit shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996.

**F. Miscellaneous Requirements**

None

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
P008 - Pangborn Rotoblast (belt blaster work station) equipped with 1884 acfm fabric filter baghouse	OAC rule 3745-31-05(A)(3)	PE: 0.21 lb/hr, 0.91 tpy  Visible particulate emissions from the baghouse stack shall not exceed 5% opacity as a 6-minute average.  See Section A.2.a. and b. below.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a** No visible particulate emissions of fugitive dust shall be emitted from this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.
- 2.b** The collection efficiency of the fabric filter baghouse shall be sufficient to minimize or eliminate visible particulate emissions. The baghouse shall be in a good working condition and in full operation whenever this emissions unit is operating.

**B. Operational Restrictions**

1. The fabric filter baghouse associated with this emissions unit shall be in full operation and effectively capturing particulate matters whenever this emissions unit is operating.

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

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from any building openings housing this emissions unit. These building openings shall include, but not limited to, doorways, windows, and roof monitors. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall perform weekly checks, when this emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

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Emissions Unit ID: P008

- a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
3. The permittee shall maintain records whenever this emissions unit operated without use of the fabric filter baghouse to effectively capture the particulate matter emissions.

#### **D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify each day during which the Pangborn Rotoblast machine operated without the use of a fabric filter baghouse. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after each occurrence.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from any building openings housing this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit semiannual written reports that (a) identify all weeks during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

#### **E. Testing Requirements**

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

1. Emission Limitation:  
  
PE: 0.21 pound per hour

**LuK, Inc.****PTI Application: 02 20625****Modif****Facility ID: 028503031****Emissions Unit ID: P008**

Applicable Compliance Method:

To determine the hourly particulate emissions rate for this emissions unit, the following equation may be used:

$$E = A \cdot (1 - 98\%)$$

where:

E = particulate emissions (lb/hr)

A = 10.5 lbs/hr uncontrolled rate emission factor (manufacturer's specification)

98% = fabric filter baghouse control efficiency

If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 5.

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## 2. Emission Limitation:

PE: 0.91 ton per year

## Applicable Compliance Method:

This limit is based on the allowable hourly emission limit (0.21 lb/hr) multiplied by the maximum possible operating hours (8760 hrs/yr), and dividing by 2000 (lbs/ton). Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

## 3. Emission Limitation:

Visible particulate emissions from any stack shall not exceed 5% opacity as a six-minute average.

## Applicable Compliance Method:

Compliance with the visible emission limitation for this emissions unit shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996.

**F. Miscellaneous Requirements**

None

LuK, I

PTI A

Modification Issued: 5/11/2006

Emissions Unit ID: P009

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
P009 - No. 1 Cast Iron machine, controlled by a fabric filter baghouse which vents inside a building	OAC rule 3745-31-05(A)(3)	PE: 0.08 lb/hr, 0.36 tpy  No visible particulate emissions from the baghouse emissions vents.  See Section A.2.a. and b. below.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

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**2. Additional Terms and Conditions**

- 2.a** No visible particulate emissions of fugitive dust shall be emitted from this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.
- 2.b** The collection efficiency of the fabric filter baghouse shall be sufficient to minimize or eliminate visible particulate emissions. The baghouse shall be in a good working condition and in full operation whenever this emissions unit is operating.

**B. Operational Restrictions**

1. The fabric filter baghouse associated with this emissions unit shall be in full operation and effectively capturing particulate matters whenever this emissions unit is operating.

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

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from any building openings housing this emissions unit. These building openings shall include, but not limited to, doorways, windows, and roof monitors. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall maintain records whenever this emissions unit operated without use of the fabric filter baghouse to effectively capture the particulate matter emissions.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify each day during which the No. 1 Cast Iron machine operated without the use of a fabric filter baghouse.

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The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after each occurrence.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from any building openings housing this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office or local air agency by January 31 and July 31 of each year and shall cover the previous 6-month period.

**E. Testing Requirements**

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

1. Emission Limitation:

PE: 0.08 pound per hour

Applicable Compliance Method:

To determine the hourly particulate emissions rate for this emissions unit, the following equation may be used:

$$E = A*B*C*(1 - 99\%)$$

where:

E = particulate emissions (lb/hr)

A = maximum production rate per hour, 75 castings/hr

B = estimated removal rate per casting, 0.44 lb/casting (supplied by facility)

C = removal rate of particulate, 25%

99% = fabric filter baghouse control efficiency

If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 5.

2. Emission Limitation:

PE: 0.36 ton per year

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Applicable Compliance Method:

This limit is based on the allowable hourly emission limit (0.08 lb/hr) multiplied by the maximum possible operating hours (8760 hrs/yr), and dividing by 2000 (lbs/ton). Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

**F. Miscellaneous Requirements**

None

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PTI A

Modification Issued: 5/11/2006

Emissions Unit ID: P010

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
P010 - No. 2 Cast Iron machine, controlled by a fabric filter baghouse which vents emissions inside a building	OAC rule 3745-31-05(A)(3)	PE: 0.08 lb/hr, 0.36 tpy  No visible particulate emissions from the baghouse emissions vents.  See Section A.2.a. and b. below.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a** No visible particulate emissions of fugitive dust shall be emitted from this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.
- 2.b** The collection efficiency of the fabric filter baghouse shall be sufficient to minimize or eliminate visible particulate emissions. The baghouse shall be in a good working condition and in full operation whenever this emissions unit is operating.

**B. Operational Restrictions**

1. The fabric filter baghouse associated with this emissions unit shall be in full operation and effectively capturing particulate matters whenever this emissions unit is operating.

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

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from any building openings housing this emissions unit. These building openings shall include, but not limited to, doorways, windows, and roof monitors. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall maintain records whenever this emissions unit operated without use of the fabric filter baghouse to effectively capture the particulate matter emissions.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify each day during

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which the No. 2 Cast Iron machine operated without the use of a fabric filter baghouse. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after each occurrence.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from any building openings housing this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office or local air agency by January 31 and July 31 of each year and shall cover the previous 6-month period.

### E. Testing Requirements

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

1. Emission Limitation:

PE: 0.08 pound per hour

Applicable Compliance Method:

To determine the hourly particulate emissions rate for this emissions unit, the following equation may be used:

$$E = A*B*C*(1 - 99\%)$$

where:

E = particulate emissions (lb/hr)

A = maximum production rate per hour, 75 castings/hr

B = estimated removal rate per casting, 0.44 lb/casting (supplied by facility)

C = removal rate of particulate, 25%

99% = fabric filter baghouse control efficiency

If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 5.

2. Emission Limitation:

PE: 0.36 ton per year

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Applicable Compliance Method:

This limit is based on the allowable hourly emission limit (0.08 lb/hr) multiplied by the maximum possible operating hours (8760 hrs/yr), and dividing by 2000 (lbs/ton). Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

**F. Miscellaneous Requirements**

None

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PTI A

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Emissions Unit ID: P011

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
P011 - No. 3 Cast Iron machine, controlled by a fabric filter baghouse which vents emissions inside a building	OAC rule 3745-31-05(A)(3)	PE: 0.08 lb/hr, 0.36 tpy  No visible particulate emissions from the baghouse emissions vents.  See Section A.2.a. and b. below.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a** No visible particulate emissions of fugitive dust shall be emitted from this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.
- 2.b** The collection efficiency of the fabric filter baghouse shall be sufficient to minimize or eliminate visible particulate emissions. The baghouse shall be in a good working condition and in full operation whenever this emissions unit is operating.

**B. Operational Restrictions**

1. The fabric filter baghouse associated with this emissions unit shall be in full operation and effectively capturing particulate matters whenever this emissions unit is operating.

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

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from any building openings housing this emissions unit. These building openings shall include, but not limited to, doorways, windows, and roof monitors. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall maintain records whenever this emissions unit operated without use of the fabric filter baghouse to effectively capture the particulate matter emissions.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify each day during

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which the No. 3 Cast Iron machine operated without the use of a fabric filter baghouse. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after each occurrence.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from any building openings housing this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office or local air agency by January 31 and July 31 of each year and shall cover the previous 6-month period.

### E. Testing Requirements

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

1. Emission Limitation:

PE: 0.08 pound per hour

Applicable Compliance Method:

To determine the hourly particulate emissions rate for this emissions unit, the following equation may be used:

$$E = A*B*C*(1 - 99\%)$$

where:

E = particulate emissions (lb/hr)

A = maximum production rate per hour, 75 castings/hr

B = estimated removal rate per casting, 0.44 lb/casting (supplied by facility)

C = removal rate of particulate, 25%

99% = fabric filter baghouse control efficiency

If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 5.

2. Emission Limitation:

PE: 0.36 ton per year

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Applicable Compliance Method:

This limit is based on the allowable hourly emission limit (0.08 lb/hr) multiplied by the maximum possible operating hours (8760 hrs/yr), and dividing by 2000 (lbs/ton). Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

**F. Miscellaneous Requirements**

None

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Emissions Unit ID: P012

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
P012 - No. 4 Cast Iron machine, controlled by a fabric filter baghouse which vents emissions inside a building	OAC rule 3745-31-05(A)(3)	PE: 0.08 lb/hr, 0.36 tpy  No visible particulate emissions from the baghouse emissions vents.  See Section A.2.a. and b. below.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a** No visible particulate emissions of fugitive dust shall be emitted from this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.
- 2.b** The collection efficiency of the fabric filter baghouse shall be sufficient to minimize or eliminate visible particulate emissions. The baghouse shall be in a good working condition and in full operation whenever this emissions unit is operating.

**B. Operational Restrictions**

1. The fabric filter baghouse associated with this emissions unit shall be in full operation and effectively capturing particulate matters whenever this emissions unit is operating.

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

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from any building openings housing this emissions unit. These building openings shall include, but not limited to, doorways, windows, and roof monitors. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall maintain records whenever this emissions unit operated without use of the fabric filter baghouse to effectively capture the particulate matter emissions.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify each day during which the No. 4 Cast Iron machine operated without the use of a fabric filter baghouse.

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The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after each occurrence.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from any building openings housing this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office or local air agency by January 31 and July 31 of each year and shall cover the previous 6-month period.

**E. Testing Requirements**

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

1. Emission Limitation:

PE: 0.08 pound per hour

Applicable Compliance Method:

To determine the hourly particulate emissions rate for this emissions unit, the following equation may be used:

$$E = A*B*C*(1 - 99\%)$$

where:

E = particulate emissions (lb/hr)

A = maximum production rate per hour, 75 castings/hr

B = estimated removal rate per casting, 0.44 lb/casting (supplied by facility)

C = removal rate of particulate, 25%

99% = fabric filter baghouse control efficiency

If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 5.

2. Emission Limitation:

PE: 0.36 ton per year

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Applicable Compliance Method:

This limit is based on the allowable hourly emission limit (0.08 lb/hr) multiplied by the maximum possible operating hours (8760 hrs/yr), and dividing by 2000 (lbs/ton). Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

**F. Miscellaneous Requirements**

None

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Emissions Unit ID: P013

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
P013 - No. 5 Cast Iron machine, controlled by a fabric filter baghouse which vents emissions inside a building	OAC rule 3745-31-05(A)(3)	PE: 0.08 lb/hr, 0.36 tpy  No visible particulate emissions from the baghouse emissions vents.  See Section A.2.a. and b. below.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3)

**2. Additional Terms and Conditions**

- 2.a** No visible particulate emissions of fugitive dust shall be emitted from this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.
- 2.b** The collection efficiency of the fabric filter baghouse shall be sufficient to minimize or eliminate visible particulate emissions. The baghouse shall be in a good working condition and in full operation whenever this emissions unit is operating.

**B. Operational Restrictions**

1. The fabric filter baghouse associated with this emissions unit shall be in full operation and effectively capturing particulate matters whenever this emissions unit is operating.

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

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from any building openings housing this emissions unit. These building openings shall include, but not limited to, doorways, windows, and roof monitors. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall maintain records whenever this emissions unit operated without use of the fabric filter baghouse to effectively capture the particulate matter emissions.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify each day during

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which the No. 5 Cast Iron machine operated without the use of a fabric filter baghouse. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after each occurrence.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from any building openings housing this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office or local air agency by January 31 and July 31 of each year and shall cover the previous 6-month period.

### E. Testing Requirements

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

1. Emission Limitation:

PE: 0.08 pound per hour

Applicable Compliance Method:

To determine the hourly particulate emissions rate for this emissions unit, the following equation may be used:

$$E = A*B*C*(1 - 99\%)$$

where:

E = particulate emissions (lb/hr)

A = maximum production rate per hour, 75 castings/hr

B = estimated removal rate per casting, 0.44 lb/casting (supplied by facility)

C = removal rate of particulate, 25%

99% = fabric filter baghouse control efficiency

If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 5.

2. Emission Limitation:

PE: 0.36 ton per year

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Emissions Unit ID: **P013**

Applicable Compliance Method:

This limit is based on the allowable hourly emission limit (0.08 lb/hr) multiplied by the maximum possible operating hours (8760 hrs/yr), and dividing by 2000 (lbs/ton). Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

**F. Miscellaneous Requirements**

None

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PTI A

Modification Issued: 5/11/2006

Emissions Unit ID: P014

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
P014 - No. 6 Cast Iron machine, controlled by a fabric filter baghouse which vents emissions inside a building	OAC rule 3745-31-05(A)(3)	PE: 0.08 lb/hr, 0.36 tpy  No visible particulate emissions from the baghouse emissions vents.  See Section A.2.a. and b. below.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a** No visible particulate emissions of fugitive dust shall be emitted from this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.
- 2.b** The collection efficiency of the fabric filter baghouse shall be sufficient to minimize or eliminate visible particulate emissions. The baghouse shall be in a good working condition and in full operation whenever this emissions unit is operating.

**B. Operational Restrictions**

1. The fabric filter baghouse associated with this emissions unit shall be in full operation and effectively capturing particulate matters whenever this emissions unit is operating.

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

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from any building openings housing this emissions unit. These building openings shall include, but not limited to, doorways, windows, and roof monitors. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall maintain records whenever this emissions unit operated without use of the fabric filter baghouse to effectively capture the particulate matter emissions.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify each day during

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which the No. 6 Cast Iron machine operated without the use of a fabric filter baghouse. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after each occurrence.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from any building openings housing this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office or local air agency by January 31 and July 31 of each year and shall cover the previous 6-month period.

### E. Testing Requirements

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

1. Emission Limitation:

PE: 0.08 pound per hour

Applicable Compliance Method:

To determine the hourly particulate emissions rate for this emissions unit, the following equation may be used:

$$E = A * B * C * (1 - 99\%)$$

where:

E = particulate emissions (lb/hr)

A = maximum production rate per hour, 75 castings/hr

B = estimated removal rate per casting, 0.44 lb/casting (supplied by facility)

C = removal rate of particulate, 25%

99% = fabric filter baghouse control efficiency

If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 5.

2. Emission Limitation:

PE: 0.36 ton per year

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Emissions Unit ID: **P014**

Applicable Compliance Method:

This limit is based on the allowable hourly emission limit (0.08 lb/hr) multiplied by the maximum possible operating hours (8760 hrs/yr), and dividing by 2000 (lbs/ton). Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

**F. Miscellaneous Requirements**

None

**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>
P015 - No. 7 Cast Iron machine, controlled by a fabric filter baghouse which vents emissions inside a building	OAC rule 3745-31-05(A)(3)	PE: 0.08 lb/hr, 0.36 tpy  No visible particulate emissions from the baghouse emissions vents.
	OAC rule 3745-17-07(A)	See Section A.2.a. and b. below.  The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

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**2. Additional Terms and Conditions**

- 2.a** No visible particulate emissions of fugitive dust shall be emitted from this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.
- 2.b** The collection efficiency of the fabric filter baghouse shall be sufficient to minimize or eliminate visible particulate emissions. The baghouse shall be in a good working condition and in full operation whenever this emissions unit is operating.

**B. Operational Restrictions**

1. The fabric filter baghouse associated with this emissions unit shall be in full operation and effectively capturing particulate matters whenever this emissions unit is operating.

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

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from any building openings housing this emissions unit. These building openings shall include, but not limited to, doorways, windows, and roof monitors. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall maintain records whenever this emissions unit operated without use of the fabric filter baghouse to effectively capture the particulate matter emissions.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify each day during which the No. 7 Cast Iron machine operated without the use of a fabric filter baghouse.

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The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after each occurrence.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from any building openings housing this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office or local air agency by January 31 and July 31 of each year and shall cover the previous 6-month period.

**E. Testing Requirements**

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

1. Emission Limitation:

PE: 0.08 pound per hour

Applicable Compliance Method:

To determine the hourly particulate emissions rate for this emissions unit, the following equation may be used:

$$E = A*B*C*(1 - 99\%)$$

where:

E = particulate emissions (lb/hr)

A = maximum production rate per hour, 75 castings/hr

B = estimated removal rate per casting, 0.44 lb/casting (supplied by facility)

C = removal rate of particulate, 25%

99% = fabric filter baghouse control efficiency

If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 5.

2. Emission Limitation:

PE: 0.36 ton per year

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Applicable Compliance Method:

This limit is based on the allowable hourly emission limit (0.08 lb/hr) multiplied by the maximum possible operating hours (8760 hrs/yr), and dividing by 2000 (lbs/ton). Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

**F. Miscellaneous Requirements**

None

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Emissions Unit ID: P016

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
P016 - No. 8 Cast iron machine, controlled by a fabric filter baghouse which vents emissions inside a building	OAC rule 3745-31-05(A)(3)	PE: 0.08 lb/hr, 0.36 tpy  No visible particulate emissions from the baghouse emissions vents.  See Section A.2.a. and b. below.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a** No visible particulate emissions of fugitive dust shall be emitted from this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.
- 2.b** The collection efficiency of the fabric filter baghouse shall be sufficient to minimize or eliminate visible particulate emissions. The baghouse shall be in a good working condition and in full operation whenever this emissions unit is operating.

**B. Operational Restrictions**

1. The fabric filter baghouse associated with this emissions unit shall be in full operation and effectively capturing particulate matters whenever this emissions unit is operating.

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

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from any building openings housing this emissions unit. These building openings shall include, but not limited to, doorways, windows, and roof monitors. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall maintain records whenever this emissions unit operated without use of the fabric filter baghouse to effectively capture the particulate matter emissions.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify each day during

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which the No. 8 Cast Iron machine operated without the use of a fabric filter baghouse. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after each occurrence.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from any building openings housing this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office or local air agency by January 31 and July 31 of each year and shall cover the previous 6-month period.

### E. Testing Requirements

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

1. Emission Limitation:

PE: 0.08 pound per hour

Applicable Compliance Method:

To determine the hourly particulate emissions rate for this emissions unit, the following equation may be used:

$$E = A * B * C * (1 - 99\%)$$

where:

E = particulate emissions (lb/hr)

A = maximum production rate per hour, 75 castings/hr

B = estimated removal rate per casting, 0.44 lb/casting (supplied by facility)

C = removal rate of particulate, 25%

99% = fabric filter baghouse control efficiency

If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 5.

2. Emission Limitation:

PE: 0.36 ton per year

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Applicable Compliance Method:

This limit is based on the allowable hourly emission limit (0.08 lb/hr) multiplied by the maximum possible operating hours (8760 hrs/yr), and dividing by 2000 (lbs/ton). Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

**F. Miscellaneous Requirements**

None

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**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>	<u>Applicable Emissions Limitations/Control Measures</u>
P017 - No. 9 Cast iron machine, controlled by a fabric filter baghouse which vents emissions inside a building	OAC rule 3745-31-05(A)(3)	PE: 0.08 lb/hr, 0.36 tpy  No visible particulate emissions from the baghouse emissions vents.  See Section A.2.a. and b. below.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a** No visible particulate emissions of fugitive dust shall be emitted from this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.
- 2.b** The collection efficiency of the fabric filter baghouse shall be sufficient to minimize or eliminate visible particulate emissions. The baghouse shall be in a good working condition and in full operation whenever this emissions unit is operating.

**B. Operational Restrictions**

1. The fabric filter baghouse associated with this emissions unit shall be in full operation and effectively capturing particulate matters whenever this emissions unit is operating.

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

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from any building openings housing this emissions unit. These building openings shall include, but not limited to, doorways, windows, and roof monitors. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall maintain records whenever this emissions unit operated without use of the fabric filter baghouse to effectively capture the particulate matter emissions.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify each day during

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which the No. 9 Cast Iron machine operated without the use of a fabric filter baghouse. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after each occurrence.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from any building openings housing this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office or local air agency by January 31 and July 31 of each year and shall cover the previous 6-month period.

### E. Testing Requirements

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

1. Emission Limitation:

PE: 0.08 pound per hour

Applicable Compliance Method:

To determine the hourly particulate emissions rate for this emissions unit, the following equation may be used:

$$E = A*B*C*(1 - 99\%)$$

where:

E = particulate emissions (lb/hr)

A = maximum production rate per hour, 75 castings/hr

B = estimated removal rate per casting, 0.44 lb/casting (supplied by facility)

C = removal rate of particulate, 25%

99% = fabric filter baghouse control efficiency

If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 5.

2. Emission Limitation:

PE: 0.36 ton per year

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Applicable Compliance Method:

This limit is based on the allowable hourly emission limit (0.08 lb/hr) multiplied by the maximum possible operating hours (8760 hrs/yr), and dividing by 2000 (lbs/ton). Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

**F. Miscellaneous Requirements**

None

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Emissions Unit ID: P018

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
P018 - No. 10 Cast iron machine, controlled by a fabric filter baghouse which vents emissions inside a building	OAC rule 3745-31-05(A)(3)	PE: 0.08 lb/hr, 0.36 tpy  No visible particulate emissions from the baghouse emissions vents.  See Section A.2.a. and b. below.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a** No visible particulate emissions of fugitive dust shall be emitted from this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.
- 2.b** The collection efficiency of the fabric filter baghouse shall be sufficient to minimize or eliminate visible particulate emissions. The baghouse shall be in a good working condition and in full operation whenever this emissions unit is operating.

**B. Operational Restrictions**

1. The fabric filter baghouse associated with this emissions unit shall be in full operation and effectively capturing particulate matters whenever this emissions unit is operating.

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

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from any building openings housing this emissions unit. These building openings shall include, but not limited to, doorways, windows, and roof monitors. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall maintain records whenever this emissions unit operated without use of the fabric filter baghouse to effectively capture the particulate matter emissions.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify each day during which the No. 10 Cast Iron machine operated without the use of a fabric filter

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baghouse. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after each occurrence.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from any building openings housing this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office or local air agency by January 31 and July 31 of each year and shall cover the previous 6-month period.

**E. Testing Requirements**

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

1. Emission Limitation:

PE: 0.08 pound per hour

Applicable Compliance Method:

To determine the hourly particulate emissions rate for this emissions unit, the following equation may be used:

$$E = A*B*C*(1 - 99\%)$$

where:

E = particulate emissions (lb/hr)

A = maximum production rate per hour, 75 castings/hr

B = estimated removal rate per casting, 0.44 lb/casting (supplied by facility)

C = removal rate of particulate, 25%

99% = fabric filter baghouse control efficiency

If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 5.

2. Emission Limitation:

PE: 0.36 ton per year

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Applicable Compliance Method:

This limit is based on the allowable hourly emission limit (0.08 lb/hr) multiplied by the maximum possible operating hours (8760 hrs/yr), and dividing by 2000 (lbs/ton). Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

**F. Miscellaneous Requirements**

None

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Emissions Unit ID: P019

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
P019 - No. 11 Cast iron machine, controlled by a fabric filter baghouse which vents emissions inside a building	OAC rule 3745-31-05(A)(3)	PE: 0.08 lb/hr, 0.36 tpy  No visible particulate emissions from the baghouse emissions vents.  See Section A.2.a. and b. below.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a** No visible particulate emissions of fugitive dust shall be emitted from this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.
- 2.b** The collection efficiency of the fabric filter baghouse shall be sufficient to minimize or eliminate visible particulate emissions. The baghouse shall be in a good working condition and in full operation whenever this emissions unit is operating.

**B. Operational Restrictions**

1. The fabric filter baghouse associated with this emissions unit shall be in full operation and effectively capturing particulate matters whenever this emissions unit is operating.

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

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from any building openings housing this emissions unit. These building openings shall include, but not limited to, doorways, windows, and roof monitors. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall maintain records whenever this emissions unit operated without use of the fabric filter baghouse to effectively capture the particulate matter emissions.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify each day during

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which the No. 11 Cast Iron machine operated without the use of a fabric filter baghouse. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after each occurrence.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from any building openings housing this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office or local air agency by January 31 and July 31 of each year and shall cover the previous 6-month period.

### E. Testing Requirements

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

1. Emission Limitation:

PE: 0.08 pound per hour

Applicable Compliance Method:

To determine the hourly particulate emissions rate for this emissions unit, the following equation may be used:

$$E = A*B*C*(1 - 99\%)$$

where:

E = particulate emissions (lb/hr)

A = maximum production rate per hour, 75 castings/hr

B = estimated removal rate per casting, 0.44 lb/casting (supplied by facility)

C = removal rate of particulate, 25%

99% = fabric filter baghouse control efficiency

If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 5.

2. Emission Limitation:

PE: 0.36 ton per year

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Emissions Unit ID: **P019**

Applicable Compliance Method:

This limit is based on the allowable hourly emission limit (0.08 lb/hr) multiplied by the maximum possible operating hours (8760 hrs/yr), and dividing by 2000 (lbs/ton). Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

**F. Miscellaneous Requirements**

None

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Emissions Unit ID: P020

**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>	<u>Applicable Emissions Limitations/Control Measures</u>
P020 - No. 12 Cast iron machine, controlled by a fabric filter baghouse which vents emissions inside a building	OAC rule 3745-31-05(A)(3)	PE: 0.08 lb/hr, 0.36 tpy  No visible particulate emissions from the baghouse emissions vents.  See Section A.2.a. and b. below.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a** No visible particulate emissions of fugitive dust shall be emitted from this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to, doorways, windows, and roof monitors.
- 2.b** The collection efficiency of the fabric filter baghouse shall be sufficient to minimize or eliminate visible particulate emissions. The baghouse shall be in a good working condition and in full operation whenever this emissions unit is operating.

**B. Operational Restrictions**

1. The fabric filter baghouse associated with this emissions unit shall be in full operation and effectively capturing particulate matters whenever this emissions unit is operating.

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

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from any building openings housing this emissions unit. These building openings shall include, but not limited to, doorways, windows, and roof monitors. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall maintain records whenever this emissions unit operated without use of the fabric filter baghouse to effectively capture the particulate matter emissions.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify each day during

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which the No. 12 Cast Iron machine operated without the use of a fabric filter baghouse. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after each occurrence.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from any building openings housing this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office or local air agency by January 31 and July 31 of each year and shall cover the previous 6-month period.

## E. Testing Requirements

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

1. Emission Limitation:

PE: 0.08 pound per hour

Applicable Compliance Method:

To determine the hourly particulate emissions rate for this emissions unit, the following equation may be used:

$$E = A*B*C*(1 - 99\%)$$

where:

E = particulate emissions (lb/hr)

A = maximum production rate per hour, 75 castings/hr

B = estimated removal rate per casting, 0.44 lb/casting (supplied by facility)

C = removal rate of particulate, 25%

99% = fabric filter baghouse control efficiency

If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 5.

2. Emission Limitation:

PE: 0.36 ton per year

**LuK, I**

**PTI A**

**Modification Issued: 5/11/2006**

Emissions Unit ID: **P020**

Applicable Compliance Method:

This limit is based on the allowable hourly emission limit (0.08 lb/hr) multiplied by the maximum possible operating hours (8760 hrs/yr), and dividing by 2000 (lbs/ton). Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

**F. Miscellaneous Requirements**

None

LuK, I

PTI A

Modification Issued: 5/11/2006

Emissions Unit ID: R006

**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>
R006 - Rust Inhibitor application (manually operated HVLP spray gun)	OAC rule 3745-31-05 (A)(3)	3 gallons per day of total coating usage  VOC: 19.44 lbs/day, 3.55 tpy
	OAC rule 3745-21-09 (U)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See section A.2.a.

**2. Additional Terms and Conditions**

- 2.a This emissions unit shall be exempt from the compliant coating requirements in OAC rule 3745-21-09(U)(2), by restricting material usage to 3 gallons per day.

**B. Operational Restrictions**

1. This emissions unit shall not employ more than three gallons of coatings per day.

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

1. The permittee shall collect and record the following information each day for the coating line.

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- a. The name and identification number of each coating employed.
- b. The volume, in gallons, of each coating employed.
- c. The VOC content of each coating employed, in lbs VOC per gallon coating, as employed.
- d. The total volume, in gallons, of all of the coatings employed.
- e. The daily VOC emissions, in lbs VOC/day, calculated as the sum of (c) x (b) for each coating employed.

## 2. Air Toxic Policy Clarifying Language

The permit to install for this emissions unit P914 was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Mineral Spirits

TLV (mg/m<sup>3</sup>): 572

Maximum Hourly Emission Rate (lbs/hr): 0.81 lb/hr

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m<sup>3</sup>): 659.6

MAGLC (ug/m<sup>3</sup>): 13,619

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make

the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

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- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify each day during which the total coating usage exceeded 3 gallon per day and the actual coating usage for each such day. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after the exceedance occurs.
2. The permittee shall submit deviation (excursion) reports which identify each day during which the total VOC emissions exceeded 19.44 pounds per day and the actual VOC emissions for each such day. The notification shall include a copy of such record and

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**Emissions Unit ID: R006**

shall be sent to the Ohio EPA, Northeast District Office within 45 days after the exceedance occurs.

**E. Testing Requirements**

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

Emission Limitation:  
19.44 lbs VOC per day

Applicable Compliance Method:  
Compliance shall be determined as specified in C.1.e. above. Formulation data or US EPA Method 24 (for coatings) shall be used to determine the VOC contents of the coatings.

2. Emission Limitation:

3.55 tons of VOC per year

Applicable Compliance Method:

Compliance shall be based upon the Monitoring and/or Record Keeping requirements specified in Section C. Annual emissions shall be calculated by adding the daily (or monthly if maintained) records of VOC emissions at the end of each year.

**F. Miscellaneous Requirements**

None

LuK, I

PTI A

Modification Issued: 5/11/2006

Emissions Unit ID: R007

**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>
R007 - Special Equipment spray booth (JBI spray paint booth and manual HVLP spray gun)	OAC rule 3745-31-05(A)(3)	1.5 gallons per day of total coating usage, excluding water and exempt solvents.  VOC: 10.2 lbs/day, 1.86 tpy  Visible particulate emissions shall not exceed 5% opacity as a 6-minute average.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	PE: 0.04 lb/day, 0.007 tpy
	OAC rule 3745-21-09(U)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a** This source is subject to the requirements of OAC rule 3745-17-11 and OAC rule 3745-31-05 requiring Best Available Technology (BAT). BAT for this source is the use of only 1.5 gallons of coating material per day and a JBI spray paint booth equipped with an exhaust filters (fiberglass type filter) to control particulate matter emissions, and operating it so that there are no visible emissions greater than 5 percent from the paint spray booth exhaust stack at any time. If any visible emissions greater than 5 percent are detected, emission tests and/or additional pollution control equipment may be required.

## **B. Operational Restrictions**

1. This emissions unit shall not employ more than 1.50 gallons of coatings per day.

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

1. The permittee shall collect and record the following information each day for the coating line.
  - a. The name and identification number of each coating employed.
  - b. The volume, in gallons, of each coating employed.
  - c. The VOC content of each coating employed, in lbs VOC per gallon coating, as employed.
  - d. The total volume, in gallons, of all of the coatings employed.
  - e. The daily VOC emissions, in lbs VOC/day, calculated as the sum of (c) x (b) for each coating employed.

## **2. Air Toxic Policy Clarifying Language**

The permit to install for this emissions unit R007 was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was

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compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Trimethyl Benzene

TLV (mg/m<sup>3</sup>): 123

Maximum Hourly Emission Rate (lbs/hr): 1.27 lb/hr

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Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m3): 173.6

MAGLC (ug/m3): 2928.57

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

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- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify each day during which the total coating usage exceeded 1.5 gallon per day and the actual coating usage for each such day. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after the exceedance occurs.
2. The permittee shall submit deviation (excursion) reports which identify each day during which the total VOC emissions exceeded 10.2 pounds per day and the actual VOC emissions for each such day. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after the exceedance occurs.

**E. Testing Requirements**

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

Emission Limitation:  
10.2 lbs VOC per day

Applicable Compliance Method:

Compliance shall be determined as specified in C.1.e. above. Formulation data or US EPA Method 24 (for coatings) shall be used to determine the VOC contents of the coatings.

2. Emission Limitation:  
  
1.86 tons of VOC per year

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Applicable Compliance Method:

Compliance shall be based upon the Monitoring and/or Record Keeping requirements specified in Section C. Annual emissions shall be calculated by adding the daily (or monthly if maintained) records of VOC emissions at the end of each year.

3. Emission Limitation:  
0.04 lb of PE per day

To demonstrate compliance with the allowable mass emission rate (in lbs/day) for particulate emissions (PE), the permittee shall calculate the emissions using the following equation:

$$E = A*B*C(1-66\%)(1-98.49\%)$$

where:

E = particulate mass emission rate, in lbs/day

A = daily total number of coating material used, in gallon(s)

B = paint density, in lbs/gal

C = coating material solid content by weight %

66% = coating material transfer efficiency (supplied by facility)

98.49% = paint booth filter design control efficiency (supplied by facility)

4. Emission Limitation:  
0.007 ton of PE per year

To demonstrate compliance with the allowable mass emission rate (in ton/yr) for particulate emissions (PE), the permittee shall calculate the emissions using the following equation:

$$E = A*B*C*D(1-66\%)(1-98.49\%) / 2000 \text{ lbs}$$

where:

E = particulate mass emission rate, in ton per year

A = daily total number of coating material used, in gallon(s)

B = paint density, in lbs/gal

C = coating material solid content by weight %

D = number of operating days in a year

66% = coating material transfer efficiency (supplied by facility)

98.49% = paint booth filter design control efficiency (supplied by facility)

5. Emission Limitation:

Visible particulate emissions from any stack shall not exceed 5% opacity as a six-minute average.

Applicable Compliance Method:

Compliance with the visible emission limitation for the emissions unit identified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996.

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**F. Miscellaneous Requirements**

None

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PTI A

Modification Issued: 5/11/2006

Emissions Unit ID: R008

**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>
R008 - Auto Set and Test Machine (one dip tank with automated parts processor)	OAC rule 3745-31-05 (A)(3)	3 gallons per day of total coating usage  VOC: 19.89 lbs/day, 3.63 tpy
	OAC rule 3745-21-09 (U)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See section A.2.a.

**2. Additional Terms and Conditions**

- 2.a This emissions unit shall be exempt from the compliant coating requirements in OAC rule 3745-21-09(U)(2), by restricting material usage to 3 gallons per day.

**B. Operational Restrictions**

1. This emissions unit shall not employ more than three gallons of coatings per day.

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

1. The permittee shall collect and record the following information each day for the coating line.

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- a. The name and identification number of each coating employed.
- b. The volume, in gallons, of each coating employed.
- c. The VOC content of each coating employed, in lbs VOC per gallon coating, as employed.
- d. The total volume, in gallons, of all of the coatings employed.
- e. The daily VOC emissions, in lbs VOC/day, calculated as the sum of (c) x (b) for each coating employed.

## 2. Air Toxic Policy Clarifying Language

The permit to install for this emissions unit R008 was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: MINERAL Spirits

TLV (mg/m<sup>3</sup>): 572

Maximum Hourly Emission Rate (lbs/hr): 0.69 lb/hr

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m<sup>3</sup>): 385

MAGLC (ug/m<sup>3</sup>): 13,619

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make

the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

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- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify each day during which the total coating usage exceeded 3 gallon per day and the actual coating usage for each such day. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after the exceedance occurs.
2. The permittee shall submit deviation (excursion) reports which identify each day during which the total VOC emissions exceeded 19.89 pounds per day and the actual VOC emissions for each such day. The notification shall include a copy of such record and

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shall be sent to the Ohio EPA, Northeast District Office within 45 days after the exceedance occurs.

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

Emission Limitation:  
19.89 lbs VOC per day

Applicable Compliance Method:  
Compliance shall be determined as specified in C.1.e. above. Formulation data or US EPA Method 24 (for coatings) shall be used to determine the VOC contents of the coatings.

2. Emission Limitation:

3.63 tons of VOC per year

Applicable Compliance Method:

Compliance shall be based upon the Monitoring and/or Record Keeping requirements specified in Section C. Annual emissions shall be calculated by adding the daily (or monthly if maintained) records of VOC emissions at the end of each year.

**F. Miscellaneous Requirements**

None

LuK, I

PTI A

Modification Issued: 5/11/2006

Emissions Unit ID: R009

**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>
R009 - Spray enclosure with HVLP spray nozzles for spraying rust preventative on metal parts (WT Final Assembly)	OAC rule 3745-31-05 (A)(3)	1.5 gallons per day of total coating usage  VOC: 11.88 lbs/day, 2.17 tpy
	OAC rule 3745-21-09 (U)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See section A.2.a.

**2. Additional Terms and Conditions**

- 2.a This emissions unit shall be exempt from the compliant coating requirements in OAC rule 3745-21-09(U)(2), by restricting material usage to 1.5 gallons per day.

**B. Operational Restrictions**

1. This emissions unit shall not employ more than 1.5 gallons of coatings per day.

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

1. The permittee shall collect and record the following information each day for the coating line.

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- a. The name and identification number of each coating employed.
  - b. The volume, in gallons, of each coating employed.
  - c. The VOC content of each coating employed, in lbs VOC per gallon coating, as employed.
  - d. The total volume, in gallons, of all of the coatings employed.
  - e. The daily VOC emissions, in lbs VOC/day, calculated as the sum of (c) x (b) for each coating employed.
2. The permittee shall record the monthly 30-day summation of the production rate.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify each day during which the total coating usage exceeded 1.5 gallon per day and the actual coating usage for each such day. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after the exceedance occurs.
2. The permittee shall submit deviation (excursion) reports which identify each day during which the total VOC emissions exceeded 11.88 pounds per day and the actual VOC emissions for each such day. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northeast District Office within 45 days after the exceedance occurs.

**E. Testing Requirements**

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

Emission Limitation:  
11.88 lbs VOC per day

Applicable Compliance Method:  
Compliance shall be determined as specified in C.1.e. above. Formulation data or US EPA Method 24 (for coatings) shall be used to determine the VOC contents of the coatings.

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2. Emission Limitation:

2.17 tons of VOC per year

Applicable Compliance Method:

Compliance shall be based upon the Monitoring and/or Record Keeping requirements specified in Section C. Annual emissions shall be calculated by adding the daily (or monthly if maintained) records of VOC emissions at the end of each year.

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**PTI A**

**Modification Issued: 5/11/2006**

Emissions Unit ID: **R009**

**F. Miscellaneous Requirements**

None