



State of Ohio Environmental Protection Agency

Street Address:

1800 WaterMark Drive  
Columbus, OH 43215-1099

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

P.O. Box 1049  
Columbus, OH 43216-1049

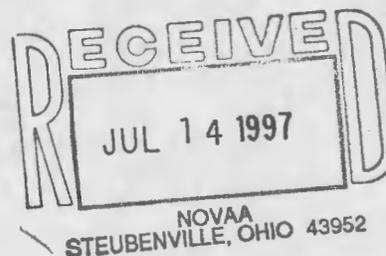
07/08/97

CERTIFIED MAIL

17-07-10-0216

RE: Final Chapter 3745-35 Permit To Operate

Industrial Brake and Friction  
Stephen Williams  
PO Box 358  
40168 National Road West  
Morristown, OH 43759



Dear Stephen Williams:

The enclosed Permit(s) to Operate allow you to operate the described emissions unit(s) in the manner indicated in the Permit(s). Because each permit contains several terms and conditions, I urge you to read them carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 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 with the Environmental Review Appeals Commission within thirty (30) days after notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

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

If you have any questions, please contact the North Ohio Valley Air Authority at (614) 282-3908.

Very truly yours,

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

cc: North Ohio Valley Air Authority



## PERMIT TO OPERATE AN EMISSIONS UNIT

Effective Date: 07/08/97

Facility ID: 17-07-10-0216

Expiration Date: 07/08/00

FINAL ISSUE

This document constitutes issuance for: Industrial Brake and Friction  
40168 National Road West  
PO Box 358  
Morristown, OH 43759

of a permit to operate for:

P001 (I.B.F. Ohio 10-102 Gardner)  
Grinding 26" outside diameter grinder

### PART I General Terms & Conditions

#### 1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

#### 2. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

#### 3. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **4. 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 three 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 the permit. Such records may be maintained in computerized form.

#### **5. Inspections and Information Requests**

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

#### **6. 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 unit 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 this emissions unit(s) that is (are) served by such control system(s).

#### **7. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permittee. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

#### **8. 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.

#### **9. Permit Renewal**

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency. It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

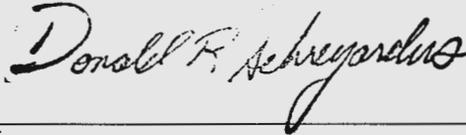
The following Ohio EPA District Office or local air agency has jurisdiction in the area in which the facility is located:

North Ohio Valley Air Authority  
814 Adams  
Steubenville, OH 43952  
(614) 282-3908

You will be contacted approximately six months prior to expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate DO or LAA.

**10. The permittee is also subject to the attached special terms and conditions.**

OHIO ENVIRONMENTAL PROTECTION AGENCY



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Director

**Part II: Special Terms and Conditions**

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Gardner 26 inch outside diameter grinder with fabric filter	PTI # 17-1412	0.0035 lb PM/hr, 0.0153 TPY PM.
	3745-17-07(A)	See A.2.2.a, b, and c below. Same as PTI.
	3745-17-07(B)(1)	Less stringent than PTI.
	3745-17-08(B)	Less stringent than PTI.

**2. Additional Terms and Conditions**

- 2.a There shall be no visible emissions from the capture hoods.
- 2.b All particulate (PM) emissions shall be vented to the fabric filter.
- 2.c Visible emissions from the exhaust stack of the fabric filter shall not exceed 20 percent opacity, except for one 6-minute period in any hour when up to 60 percent is permissible.

**B. Operational Restrictions**

1. The permittee shall not employ any asbestos-containing material in this emission unit without prior written authorization from Ohio EPA.

**C. Monitoring and/or Record Keeping Requirements**

None

**D. Reporting Requirements**

1. The permittee shall notify the Director if any visible emissions are observed from the capture hoods. The notification shall include the reason for the visible emissions and the measures taken to correct the problem. This notification shall be submitted within 30 days of the observation of visible emissions.

**E. Testing Requirements**

1. Compliance with the visible particulate emission limitation in section A.1 shall be determined in accordance with the test method and procedures in OAC 3745-17-03(B)(4).
2. Compliance with the PM emission limits in section A.1 of the terms and conditions are demonstrated by using the emission factor loading of 0.011 grain per cubic foot (from the Keysort Classification System of the Division of Industrial Hygiene, New York State Department of Labor, Table 9), a control efficiency of 91%, and a flow rate of 205 cubic feet per second. The annual PM emissions are determined based upon the total hours of operation each year.

**F. Miscellaneous Requirements**

None



## PERMIT TO OPERATE AN EMISSIONS UNIT

Effective Date: 7/8/97

Facility ID: 17-07-10-0216

Expiration Date: 07/08/00

FINAL ISSUE

This document constitutes issuance for: Industrial Brake and Friction  
40168 National Road West  
PO Box 358  
Morristown, OH 43759

of a permit to operate for:

P002 (I.B.F Ohio 10-103 Brown & Sharpe)  
Keyway cutter #2

### PART I General Terms & Conditions

#### 1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

#### 2. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

#### 3. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **4. 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 three 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 the permit. Such records may be maintained in computerized form.

#### **5. Inspections and Information Requests**

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

#### **6. 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 unit 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 this emissions unit(s) that is (are) served by such control system(s).

#### **7. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permittee. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

#### **8. 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.

#### **9. Permit Renewal**

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency. It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

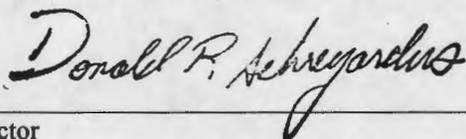
The following Ohio EPA District Office or local air agency has jurisdiction in the area in which the facility is located:

North Ohio Valley Air Authority  
814 Adams  
Steubenville, OH 43952  
(614) 282-3908

You will be contacted approximately six months prior to expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate DO or LAA.

**10. The permittee is also subject to the attached special terms and conditions.**

OHIO ENVIRONMENTAL PROTECTION AGENCY



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Director

**Part II: Special Terms and Conditions**

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Brown & Sharpe keyway cutter #2 with fabric filter	PTI # 17-1412	0.0035 lb PM/hr, 0.0153 TPY PM.
	3745-17-07(A)	See A.2.2.a, b, and c below. Same as PTI.
	3745-17-07(B)(1)	Less stringent than PTI.
	3745-17-08(B)	Less stringent than PTI.

**2. Additional Terms and Conditions**

- 2.a There shall be no visible emissions from the capture hoods.  
 2.b All particulate (PM) emissions shall be vented to the fabric filter.  
 2.c Visible emissions from the exhaust stack of the fabric filter shall not exceed 20 percent opacity, except for one 6-minute period in any hour when up to 60 percent is permissible.

**B. Operational Restrictions**

1. The permittee shall not employ any asbestos-containing material in this emission unit without prior written authorization from Ohio EPA.

**C. Monitoring and/or Record Keeping Requirements**

None

**D. Reporting Requirements**

1. The permittee shall notify the Director if any visible emissions are observed from the capture hoods. The notification shall include the reason for the visible emissions and the measures taken to correct the problem. This notification shall be submitted within 30 days of the observation of visible emissions.

**E. Testing Requirements**

1. Compliance with the visible particulate emission limitation in section A.1 shall be determined in accordance with the test method and procedures in OAC 3745-17-03(B)(4).  
 2. Compliance with the PM emission limits in section A.1 of the terms and conditions are demonstrated by using the emission factor loading of 0.011 grain per cubic foot (from the Keysort Classification System of the Division of Industrial Hygiene, New York State Department of Labor, Table 9), a control efficiency of 91%, and a flow rate of 205 cubic feet per second. The annual PM emissions are determined based upon the total hours of operation each year.

**F. Miscellaneous Requirements**

None



## PERMIT TO OPERATE AN EMISSIONS UNIT

Effective Date: 7/8/97

Facility ID: 17-07-10-0216

Expiration Date: 07/08/00

FINAL ISSUE

This document constitutes issuance for: Industrial Brake and Friction  
40168 National Road West  
PO Box 358  
Morristown, OH 43759

of a permit to operate for:

P003 (I.B.F. Ohio 10-104 Burlington)  
12" Flat Sander

### PART I General Terms & Conditions

#### 1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

#### 2. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

#### 3. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **4. 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 three 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 the permit. Such records may be maintained in computerized form.

#### **5. Inspections and Information Requests**

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

#### **6. 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 unit 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 this emissions unit(s) that is (are) served by such control system(s).

#### **7. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permittee. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

#### **8. 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.

#### **9. Permit Renewal**

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency. It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

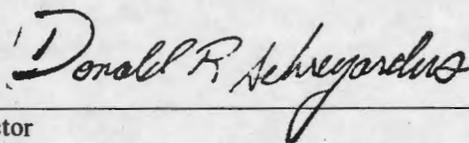
The following Ohio EPA District Office or local air agency has jurisdiction in the area in which the facility is located:

North Ohio Valley Air Authority  
814 Adams  
Steubenville, OH 43952  
(614) 282-3908

You will be contacted approximately six months prior to expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate DO or LAA.

**10. The permittee is also subject to the attached special terms and conditions.**

OHIO ENVIRONMENTAL PROTECTION AGENCY



Director

1

Facility Name: Industrial Brake and Friction

1

Facility ID: 17-07-10-0216

Emissions Unit: I.B.F. Ohio 10-104 Burlington (P003)

## Part II: Special Terms and Conditions

### A. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Burlington 12" flat sander with fabric filter	PTI # 17-1412	0.0035 lb PM/hr, 0.0153 TPY PM.
	3745-17-07(A)	See A.2.2.a, b, and c below.
	3745-17-07(B)(1)	Same as PTI.
	3745-17-08(B)	Less stringent than PTI.

### 2. Additional Terms and Conditions

- There shall be no visible emissions from the capture hoods.
- All particulate (PM) emissions shall be vented to the fabric filter.
- Visible emissions from the exhaust stack of the fabric filter shall not exceed 20 percent opacity, except for one 6-minute period in any hour when up to 60 percent is permissible.

### B. Operational Restrictions

- The permittee shall not employ any asbestos-containing material in this emission unit without prior written authorization from Ohio EPA.

### C. Monitoring and/or Record Keeping Requirements

None

### D. Reporting Requirements

- The permittee shall notify the Director if any visible emissions are observed from the capture hoods. The notification shall include the reason for the visible emissions and the measures taken to correct the problem. This notification shall be submitted within 30 days of the observation of visible emissions.

### E. Testing Requirements

- Compliance with the visible particulate emission limitation in section A.1 shall be determined in accordance with the test method and procedures in OAC 3745-17-03(B)(4).
- Compliance with the PM emission limits in section A.1 of the terms and conditions are demonstrated by using the emission factor loading of 0.011 grain per cubic foot (from the Keysort Classification System of the Division of Industrial Hygiene, New York State Department of Labor, Table 9), a control efficiency of 91%, and a flow rate of 205 cubic feet per second. The annual PM emissions are determined based upon the total hours of operation each year.

### F. Miscellaneous Requirements

None



## PERMIT TO OPERATE AN EMISSIONS UNIT

Effective Date: 7/8/97

Facility ID: 17-07-10-0216

Expiration Date: 07/08/00

FINAL ISSUE

This document constitutes issuance for: Industrial Brake and Friction  
40168 National Road West  
PO Box 358  
Morristown, OH 43759

of a permit to operate for:

P004 (I.B.F. Ohio 10-105 Von Norman)  
Vertical Mill Head

### PART I General Terms & Conditions

#### 1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

#### 2. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

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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.

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The following Ohio EPA District Office or local air agency has jurisdiction in the area in which the facility is located:

North Ohio Valley Air Authority  
814 Adams  
Steubenville, OH 43952  
(614) 282-3908

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**10. The permittee is also subject to the attached special terms and conditions.**

OHIO ENVIRONMENTAL PROTECTION AGENCY



Director

**Part II: Special Terms and Conditions**

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Von Norman vertical mill head with fabric filter	PTI # 17-1412	0.0035 lb PM/hr, 0.0153 TPY PM.
	3745-17-07(A)	See A.2.2.a, b, and c below.
	3745-17-07(B)(1)	Same as PTI.
	3745-17-08(B)	Less stringent than PTI.

**2. Additional Terms and Conditions**

- 2.a There shall be no visible emissions from the capture hoods.  
 2.b All particulate (PM) emissions shall be vented to the fabric filter.  
 2.c Visible emissions from the exhaust stack of the fabric filter shall not exceed 20 percent opacity, except for one 6-minute period in any hour when up to 60 percent is permissible.

**B. Operational Restrictions**

1. The permittee shall not employ any asbestos-containing material in this emission unit without prior written authorization from Ohio EPA.

**C. Monitoring and/or Record Keeping Requirements**

None

**D. Reporting Requirements**

1. The permittee shall notify the Director if any visible emissions are observed from the capture hoods. The notification shall include the reason for the visible emissions and the measures taken to correct the problem. This notification shall be submitted within 30 days of the observation of visible emissions.

**E. Testing Requirements**

1. Compliance with the visible particulate emission limitation in section A.1 shall be determined in accordance with the test method and procedures in OAC 3745-17-03(B)(4).  
 2. Compliance with the PM emission limits in section A.1 of the terms and conditions are demonstrated by using the emission factor loading of 0.011 grain per cubic foot (from the Keysort Classification System of the Division of Industrial Hygiene, New York State Department of Labor, Table 9), a control efficiency of 91%, and a flow rate of 205 cubic feet per second. The annual PM emissions are determined based upon the total hours of operation each year.

**F. Miscellaneous Requirements**

None



## PERMIT TO OPERATE AN EMISSIONS UNIT

Effective Date: 7/8/97

Facility ID: 17-07-10-0216

Expiration Date: 07/08/00

FINAL ISSUE

This document constitutes issuance for: Industrial Brake and Friction  
40168 National Road West  
PO Box 358  
Morristown, OH 43759

of a permit to operate for:

P005 (I.B.F. Ohio 10-106 Porter Cable)  
Pad Fabrication 8" Belt Sander

### PART I General Terms & Conditions

#### 1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

#### 2. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

#### 3. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **4. 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 three 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 the permit. Such records may be maintained in computerized form.

#### **5. Inspections and Information Requests**

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

#### **6. 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 unit 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 this emissions unit(s) that is (are) served by such control system(s).

#### **7. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permittee. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

#### **8. 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.

#### **9. Permit Renewal**

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency. It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

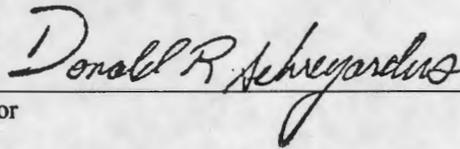
The following Ohio EPA District Office or local air agency has jurisdiction in the area in which the facility is located:

North Ohio Valley Air Authority  
814 Adams  
Steubenville, OH 43952  
(614) 282-3908

You will be contacted approximately six months prior to expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate DO or LAA.

**10. The permittee is also subject to the attached special terms and conditions.**

OHIO ENVIRONMENTAL PROTECTION AGENCY



Director

**Part II: Special Terms and Conditions**

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Porter Cable 8" belt sander with fabric filter	PTI # 17-1412	0.0035 lb PM/hr, 0.0153 TPY PM.
	3745-17-07(A)	See A.2.2.a, b, and c below.
	3745-17-07(B)(1)	Same as PTI.
	3745-17-08(B)	Less stringent than PTI.

**2. Additional Terms and Conditions**

- 2.a There shall be no visible emissions from the capture hoods.  
 2.b All particulate (PM) emissions shall be vented to the fabric filter.  
 2.c Visible emissions from the exhaust stack of the fabric filter shall not exceed 20 percent opacity, except for one 6-minute period in any hour when up to 60 percent is permissible.

**B. Operational Restrictions**

1. The permittee shall not employ any asbestos-containing material in this emission unit without prior written authorization from Ohio EPA.

**C. Monitoring and/or Record Keeping Requirements**

None

**D. Reporting Requirements**

1. The permittee shall notify the Director if any visible emissions are observed from the capture hoods. The notification shall include the reason for the visible emissions and the measures taken to correct the problem. This notification shall be submitted within 30 days of the observation of visible emissions.

**E. Testing Requirements**

1. Compliance with the visible particulate emission limitation in section A.1 shall be determined in accordance with the test method and procedures in OAC 3745-17-03(B)(4).  
 2. Compliance with the PM emission limits in section A.1 of the terms and conditions are demonstrated by using the emission factor loading of 0.011 grain per cubic foot (from the Keysort Classification System of the Division of Industrial Hygiene, New York State Department of Labor, Table 9), a control efficiency of 91%, and a flow rate of 205 cubic feet per second. The annual PM emissions are determined based upon the total hours of operation each year.

**F. Miscellaneous Requirements**

None



## PERMIT TO OPERATE AN EMISSIONS UNIT

Effective Date: 7/8/97

Facility ID: 17-07-10-0216

Expiration Date: 07/08/00

FINAL ISSUE

This document constitutes issuance for: Industrial Brake and Friction  
40168 National Road West  
PO Box 358  
Morristown, OH 43759

of a permit to operate for:

P006 (I.B.F. Ohio 10-107 Beckett Bros.)  
Pad Fabrication 7.5" Drum Sander

### PART I General Terms & Conditions

#### 1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

#### 2. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

#### 3. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **4. 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 three 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 the permit. Such records may be maintained in computerized form.

#### **5. Inspections and Information Requests**

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

#### **6. 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 unit 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 this emissions unit(s) that is (are) served by such control system(s).

#### **7. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permittee. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

#### **8. 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.

#### **9. Permit Renewal**

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency. It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

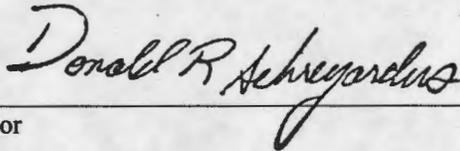
The following Ohio EPA District Office or local air agency has jurisdiction in the area in which the facility is located:

North Ohio Valley Air Authority  
814 Adams  
Steubenville, OH 43952  
(614) 282-3908

You will be contacted approximately six months prior to expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate DO or LAA.

**10. The permittee is also subject to the attached special terms and conditions.**

OHIO ENVIRONMENTAL PROTECTION AGENCY



Director

**Part II: Special Terms and Conditions**

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Beckett Brother's 7.5" drum sander with fabric filter	PTI # 17-1412	0.0035 lb PM/hr, 0.0153 TPY PM.
	3745-17-07(A)	See A.2.2.a, b, and c below.
	3745-17-07(B)(1)	Same as PTI.
	3745-17-08(B)	Less stringent than PTI.

**2. Additional Terms and Conditions**

- 2.a There shall be no visible emissions from the capture hoods.  
 2.b All particulate (PM) emissions shall be vented to the fabric filter.  
 2.c Visible emissions from the exhaust stack of the fabric filter shall not exceed 20 percent opacity, except for one 6-minute period in any hour when up to 60 percent is permissible.

**B. Operational Restrictions**

1. The permittee shall not employ any asbestos-containing material in this emission unit without prior written authorization from Ohio EPA.

**C. Monitoring and/or Record Keeping Requirements**

None

**D. Reporting Requirements**

1. The permittee shall notify the Director if any visible emissions are observed from the capture hoods. The notification shall include the reason for the visible emissions and the measures taken to correct the problem. This notification shall be submitted within 30 days of the observation of visible emissions.

**E. Testing Requirements**

1. Compliance with the visible particulate emission limitation in section A.1 shall be determined in accordance with the test method and procedures in OAC 3745-17-03(B)(4).  
 2. Compliance with the PM emission limits in section A.1 of the terms and conditions are demonstrated by using the emission factor loading of 0.011 grain per cubic foot (from the Keysort Classification System of the Division of Industrial Hygiene, New York State Department of Labor, Table 9), a control efficiency of 91%, and a flow rate of 205 cubic feet per second. The annual PM emissions are determined based upon the total hours of operation each year.

**F. Miscellaneous Requirements**

None



## PERMIT TO OPERATE AN EMISSIONS UNIT

Effective Date: 7/8/97

Facility ID: 17-07-10-0216

Expiration Date: 07/08/00

FINAL ISSUE

This document constitutes issuance for:

Industrial Brake and Friction  
40168 National Road West  
PO Box 358  
Morristown, OH 43759

of a permit to operate for:

P007 (I.B.F. Ohio 10-108 Delta)  
12 " Delta Table Saw

### PART I General Terms & Conditions

#### 1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

#### 2. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

#### 3. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **4. 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 three 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 the permit. Such records may be maintained in computerized form.

#### **5. Inspections and Information Requests**

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

#### **6. 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 unit 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 this emissions unit(s) that is (are) served by such control system(s).

#### **7. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permittee. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

#### **8. 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.

#### **9. Permit Renewal**

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency. It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

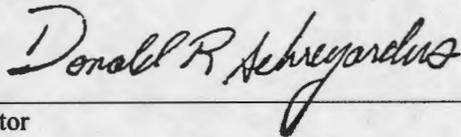
The following Ohio EPA District Office or local air agency has jurisdiction in the area in which the facility is located:

North Ohio Valley Air Authority  
814 Adams  
Steubenville, OH 43952  
(614) 282-3908

You will be contacted approximately six months prior to expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate DO or LAA.

**10. The permittee is also subject to the attached special terms and conditions.**

OHIO ENVIRONMENTAL PROTECTION AGENCY



Director

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Facility Name: Industrial Brake and Friction  
Facility ID: 17-07-10-0216  
Emissions Unit: I.B.F. Ohio 10-108 Delta (P007)

## Part II: Special Terms and Conditions

### A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Delta 12" table saw with fabric filter	PTI # 17-1412	0.0035 lb PM/hr, 0.0153 TPY PM.
	3745-17-07(A)	See A.2.2.a, b, and c below. Same as PTI.
	3745-17-07(B)(1)	Less stringent than PTI.
	3745-17-08(B)	Less stringent than PTI.

### 2. Additional Terms and Conditions

- 2.a There shall be no visible emissions from the capture hoods.
- 2.b All particulate (PM) emissions shall be vented to the fabric filter.
- 2.c Visible emissions from the exhaust stack of the fabric filter shall not exceed 20 percent opacity, except for one 6-minute period in any hour when up to 60 percent is permissible.

### B. Operational Restrictions

1. The permittee shall not employ any asbestos-containing material in this emission unit without prior written authorization from Ohio EPA.

### C. Monitoring and/or Record Keeping Requirements

None

### D. Reporting Requirements

1. The permittee shall notify the Director if any visible emissions are observed from the capture hoods. The notification shall include the reason for the visible emissions and the measures taken to correct the problem. This notification shall be submitted within 30 days of the observation of visible emissions.

### E. Testing Requirements

1. Compliance with the visible particulate emission limitation in section A.1 shall be determined in accordance with the test method and procedures in OAC 3745-17-03(B)(4).
2. Compliance with the PM emission limits in section A.1 of the terms and conditions are demonstrated by using the emission factor loading of 0.011 grain per cubic foot (from the Keysort Classification System of the Division of Industrial Hygiene, New York State Department of Labor, Table 9), a control efficiency of 91%, and a flow rate of 205 cubic feet per second. The annual PM emissions are determined based upon the total hours of operation each year.

### F. Miscellaneous Requirements

None



## PERMIT TO OPERATE AN EMISSIONS UNIT

Effective Date: 7/8/97

Facility ID: 17-07-10-0216

Expiration Date: 07/08/00

FINAL ISSUE

This document constitutes issuance for: Industrial Brake and Friction  
40168 National Road West  
PO Box 358  
Morristown, OH 43759

of a permit to operate for:

P008 (I.B.F. Ohio 10-109)  
N&H Mixer

### PART I General Terms & Conditions

#### 1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

#### 2. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

#### 3. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **4. 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 three 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 the permit. Such records may be maintained in computerized form.

#### **5. Inspections and Information Requests**

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

#### **6. 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 unit 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 this emissions unit(s) that is (are) served by such control system(s).

#### **7. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permittee. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

#### **8. 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.

#### **9. Permit Renewal**

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency. It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

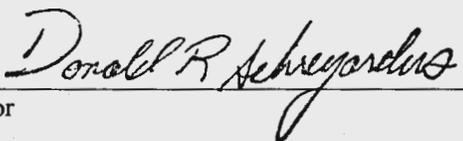
The following Ohio EPA District Office or local air agency has jurisdiction in the area in which the facility is located:

North Ohio Valley Air Authority  
814 Adams  
Steubenville, OH 43952  
(614) 282-3908

You will be contacted approximately six months prior to expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate DO or LAA.

**10. The permittee is also subject to the attached special terms and conditions.**

OHIO ENVIRONMENTAL PROTECTION AGENCY

  
\_\_\_\_\_  
Director

1

Facility Name: Industrial Brake and Friction

Facility ID: 17-07-10-0216

1

Emissions Unit: I.B.F. Ohio 10-109 (P008)

## Part II: Special Terms and Conditions

### A. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
N&H mixer with fabric filter	PTI # 17-1412	0.0035 lb PM/hr, 0.0153 TPY PM.
	3745-17-07(A)	See A.2.2.a, b, and c below. Same as PTI.
	3745-17-07(B)(1)	Less stringent than PTI.
	3745-17-08(B)	Less stringent than PTI.

### 2. Additional Terms and Conditions

- There shall be no visible emissions from the capture hoods.
- All particulate (PM) emissions shall be vented to the fabric filter.
- Visible emissions from the exhaust stack of the fabric filter shall not exceed 20 percent opacity, except for one 6-minute period in any hour when up to 60 percent is permissible.

### B. Operational Restrictions

- The permittee shall not employ any asbestos-containing material in this emission unit without prior written authorization from Ohio EPA.

### C. Monitoring and/or Record Keeping Requirements

None

### D. Reporting Requirements

- The permittee shall notify the Director if any visible emissions are observed from the capture hoods. The notification shall include the reason for the visible emissions and the measures taken to correct the problem. This notification shall be submitted within 30 days of the observation of visible emissions.

### E. Testing Requirements

- Compliance with the visible particulate emission limitation in section A.1 shall be determined in accordance with the test method and procedures in OAC 3745-17-03(B)(4).
- Compliance with the PM emission limits in section A.1 of the terms and conditions are demonstrated by using the emission factor loading of 0.011 grain per cubic foot (from the Keysort Classification System of the Division of Industrial Hygiene, New York State Department of Labor, Table 9), a control efficiency of 91%, and a flow rate of 205 cubic feet per second. The annual PM emissions are determined based upon the total hours of operation each year.

### F. Miscellaneous Requirements

None



## PERMIT TO OPERATE AN EMISSIONS UNIT

Effective Date: 7/8/97

Facility ID: 17-07-10-0216

Expiration Date: 07/08/00

FINAL ISSUE

This document constitutes issuance for: Industrial Brake and Friction  
40168 National Road West  
PO Box 358  
Morristown, OH 43759

of a permit to operate for:

P009 (I.B.F. Ohio 10-110 315 ton press )  
315 Ton Hydraulic Press

### PART I General Terms & Conditions

#### 1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

#### 2. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

#### 3. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **4. 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 three 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 the permit. Such records may be maintained in computerized form.

#### **5. Inspections and Information Requests**

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

#### **6. 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 unit 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 this emissions unit(s) that is (are) served by such control system(s).

#### **7. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permittee. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

#### **8. 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.

#### **9. Permit Renewal**

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency. It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

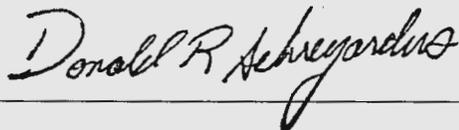
The following Ohio EPA District Office or local air agency has jurisdiction in the area in which the facility is located:

North Ohio Valley Air Authority  
814 Adams  
Steubenville, OH 43952  
(614) 282-3908

You will be contacted approximately six months prior to expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate DO or LAA.

**10. The permittee is also subject to the attached special terms and conditions.**

OHIO ENVIRONMENTAL PROTECTION AGENCY



\_\_\_\_\_  
Director

**Part II: Special Terms and Conditions**

**A. Applicable Emissions Limitations and/or Control Requirements**

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
315 ton hydraulic press with fabric filter	PTI # 17-1412	0.0035 lb PM/hr, 0.0153 TPY PM.
	3745-17-07(A)	See A.2.2.a, b, and c below.
	3745-17-07(B)(1)	Same as PTI.
	3745-17-08(B)	Less stringent than PTI.

**2. Additional Terms and Conditions**

- There shall be no visible emissions from the capture hoods.
- All particulate (PM) emissions shall be vented to the fabric filter.
- Visible emissions from the exhaust stack of the fabric filter shall not exceed 20 percent opacity, except for one 6-minute period in any hour when up to 60 percent is permissible.

**B. Operational Restrictions**

- The permittee shall not employ any asbestos-containing material in this emission unit without prior written authorization from Ohio EPA.

**C. Monitoring and/or Record Keeping Requirements**

None

**D. Reporting Requirements**

- The permittee shall notify the Director if any visible emissions are observed from the capture hoods. The notification shall include the reason for the visible emissions and the measures taken to correct the problem. This notification shall be submitted within 30 days of the observation of visible emissions.

**E. Testing Requirements**

- Compliance with the visible particulate emission limitation in section A.1 shall be determined in accordance with the test method and procedures in OAC 3745-17-03(B)(4).
- Compliance with the PM emission limits in section A.1 of the terms and conditions are demonstrated by using the emission factor loading of 0.011 grain per cubic foot (from the Keysort Classification System of the Division of Industrial Hygiene, New York State Department of Labor, Table 9), a control efficiency of 91%, and a flow rate of 205 cubic feet per second. The annual PM emissions are determined based upon the total hours of operation each year.

**F. Miscellaneous Requirements**

None



## PERMIT TO OPERATE AN EMISSIONS UNIT

Effective Date: 7/8/97

Facility ID: 17-07-10-0216

Expiration Date: 07/08/00

FINAL ISSUE

This document constitutes issuance for: Industrial Brake and Friction  
40168 National Road West  
PO Box 358  
Morristown, OH 43759

of a permit to operate for:

P010 (I.B.F. Ohio 10-111 315 ton press)  
315 Ton Hydraulic Press

### PART I General Terms & Conditions

#### 1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

#### 2. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

#### 3. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **4. 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 three 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 the permit. Such records may be maintained in computerized form.

#### **5. Inspections and Information Requests**

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

#### **6. 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 unit 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 this emissions unit(s) that is (are) served by such control system(s).

#### **7. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permittee. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

#### **8. 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.

#### **9. Permit Renewal**

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency. It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

The following Ohio EPA District Office or local air agency has jurisdiction in the area in which the facility is located:

North Ohio Valley Air Authority  
814 Adams  
Steubenville, OH 43952  
(614) 282-3908

You will be contacted approximately six months prior to expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate DO or LAA.

**10. The permittee is also subject to the attached special terms and conditions.**

OHIO ENVIRONMENTAL PROTECTION AGENCY

Director



Donald R. Schreyer

**Part II: Special Terms and Conditions**

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
315 ton press with fabric filter	PTI # 17-1412	0.0035 lb PM/hr, 0.0153 TPY PM.
	3745-17-07(A)	See A.2.2.a, b, and c below. Same as PTI.
	3745-17-07(B)(1)	Less stringent than PTI.
	3745-17-08(B)	Less stringent than PTI.

**2. Additional Terms and Conditions**

- 2.a There shall be no visible emissions from the capture hoods.
- 2.b All particulate (PM) emissions shall be vented to the fabric filter.
- 2.c Visible emissions from the exhaust stack of the fabric filter shall not exceed 20 percent opacity, except for one 6-minute period in any hour when up to 60 percent is permissible.

**B. Operational Restrictions**

1. The permittee shall not employ any asbestos-containing material in this emission unit without prior written authorization from Ohio EPA.

**C. Monitoring and/or Record Keeping Requirements**

None

**D. Reporting Requirements**

1. The permittee shall notify the Director if any visible emissions are observed from the capture hoods. The notification shall include the reason for the visible emissions and the measures taken to correct the problem. This notification shall be submitted within 30 days of the observation of visible emissions.

**E. Testing Requirements**

1. Compliance with the visible particulate emission limitation in section A.1 shall be determined in accordance with the test method and procedures in OAC 3745-17-03(B)(4).
2. Compliance with the PM emission limits in section A.1 of the terms and conditions are demonstrated by using the emission factor loading of 0.011 grain per cubic foot (from the Keysort Classification System of the Division of Industrial Hygiene, New York State Department of Labor, Table 9), a control efficiency of 91%, and a flow rate of 205 cubic feet per second. The annual PM emissions are determined based upon the total hours of operation each year.

**F. Miscellaneous Requirements**

None



## PERMIT TO OPERATE AN EMISSIONS UNIT

Effective Date: 7/8/97

Facility ID: 17-07-10-0216

Expiration Date: 07/08/00

FINAL ISSUE

This document constitutes issuance for: Industrial Brake and Friction  
40168 National Road West  
PO Box 358  
Morristown, OH 43759

of a permit to operate for:

P011 (I.B.F. Ohio 10-112 315 ton press)  
315 Ton Hydraulic Press

### PART I General Terms & Conditions

#### 1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

#### 2. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

#### 3. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **4. 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 three 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 the permit. Such records may be maintained in computerized form.

#### **5. Inspections and Information Requests**

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

#### **6. 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 unit 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 this emissions unit(s) that is (are) served by such control system(s).

#### **7. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permittee. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

#### **8. 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.

#### **9. Permit Renewal**

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency. It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

The following Ohio EPA District Office or local air agency has jurisdiction in the area in which the facility is located:

North Ohio Valley Air Authority  
814 Adams  
Steubenville, OH 43952  
(614) 282-3908

You will be contacted approximately six months prior to expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate DO or LAA.

**10. The permittee is also subject to the attached special terms and conditions.**

OHIO ENVIRONMENTAL PROTECTION AGENCY

A handwritten signature in cursive script that reads "Donald R. Schreyer". The signature is written in dark ink and is positioned above a horizontal line.

Director

**Part II: Special Terms and Conditions**

**A. Applicable Emissions Limitations and/or Control Requirements**

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
315 ton press with fabric filter	PTI # 17-1412	0.0035 lb PM/hr, 0.0153 TPY PM.
	3745-17-07(A)	See A.2.2.a, b, and c below. Same as PTI.
	3745-17-07(B)(1)	Less stringent than PTI.
	3745-17-08(B)	Less stringent than PTI.

**2. Additional Terms and Conditions**

- There shall be no visible emissions from the capture hoods.
- All particulate (PM) emissions shall be vented to the fabric filter.
- Visible emissions from the exhaust stack of the fabric filter shall not exceed 20 percent opacity, except for one 6-minute period in any hour when up to 60 percent is permissible.

**B. Operational Restrictions**

- The permittee shall not employ any asbestos-containing material in this emission unit without prior written authorization from Ohio EPA.

**C. Monitoring and/or Record Keeping Requirements**

None

**D. Reporting Requirements**

- The permittee shall notify the Director if any visible emissions are observed from the capture hoods. The notification shall include the reason for the visible emissions and the measures taken to correct the problem. This notification shall be submitted within 30 days of the observation of visible emissions.

**E. Testing Requirements**

- Compliance with the visible particulate emission limitation in section A.1 shall be determined in accordance with the test method and procedures in OAC 3745-17-03(B)(4).
- Compliance with the PM emission limits in section A.1 of the terms and conditions are demonstrated by using the emission factor loading of 0.011 grain per cubic foot (from the Keysort Classification System of the Division of Industrial Hygiene, New York State Department of Labor, Table 9), a control efficiency of 91%, and a flow rate of 205 cubic feet per second. The annual PM emissions are determined based upon the total hours of operation each year.

**F. Miscellaneous Requirements**

None



## PERMIT TO OPERATE AN EMISSIONS UNIT

Effective Date: 7/8/97

Facility ID: 17-07-10-0216

Expiration Date: 07/08/00

FINAL ISSUE

This document constitutes issuance for: Industrial Brake and Friction  
40168 National Road West  
PO Box 358  
Morristown, OH 43759

of a permit to operate for:

P012 (I.B.F. Ohio 10-115 Bellows)  
Bellows Locke Spindle

### PART I General Terms & Conditions

#### 1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

#### 2. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

#### 3. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

**4. 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 three 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 the permit. Such records may be maintained in computerized form.

**5. Inspections and Information Requests**

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

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

**7. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permittee. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**8. 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.

**9. Permit Renewal**

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency. It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

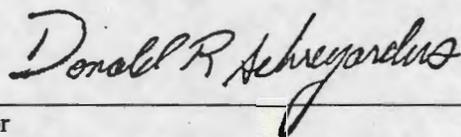
The following Ohio EPA District Office or local air agency has jurisdiction in the area in which the facility is located:

North Ohio Valley Air Authority  
814 Adams  
Steubenville, OH 43952  
(614) 282-3908

You will be contacted approximately six months prior to expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate DO or LAA.

**10. The permittee is also subject to the attached special terms and conditions.**

OHIO ENVIRONMENTAL PROTECTION AGENCY



\_\_\_\_\_  
Director

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Facility Name: Industrial Brake and Friction  
Facility ID: 17-07-10-0216  
Emissions Unit: I.B.F. Ohio 10-115 Bellows (P012)

## Part II: Special Terms and Conditions

### A. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Bellows lock spindle with fabric filter	PTI # 17-1412	0.0035 lb PM/hr, 0.0153 TPY PM.
	3745-17-07(A)	See A.2.2.a, b, and c below.
	3745-17-07(B)(1)	Same as PTI.
	3745-17-08(B)	Less stringent than PTI.

### 2. Additional Terms and Conditions

- There shall be no visible emissions from the capture hoods.
- All particulate (PM) emissions shall be vented to the fabric filter.
- Visible emissions from the exhaust stack of the fabric filter shall not exceed 20 percent opacity, except for one 6-minute period in any hour when up to 60 percent is permissible.

### B. Operational Restrictions

- The permittee shall not employ any asbestos-containing material in this emission unit without prior written authorization from Ohio EPA.

### C. Monitoring and/or Record Keeping Requirements

None

### D. Reporting Requirements

- The permittee shall notify the Director if any visible emissions are observed from the capture hoods. The notification shall include the reason for the visible emissions and the measures taken to correct the problem. This notification shall be submitted within 30 days of the observation of visible emissions.

### E. Testing Requirements

- Compliance with the visible particulate emission limitation in section A.1 shall be determined in accordance with the test method and procedures in OAC 3745-17-03(B)(4).
- Compliance with the PM emission limits in section A.1 of the terms and conditions are demonstrated by using the emission factor loading of 0.011 grain per cubic foot (from the Keysort Classification System of the Division of Industrial Hygiene, New York State Department of Labor, Table 9), a control efficiency of 91%, and a flow rate of 205 cubic feet per second. The annual PM emissions are determined based upon the total hours of operation each year.

### F. Miscellaneous Requirements

None



## PERMIT TO OPERATE AN EMISSIONS UNIT

Effective Date: 7/8/97

Facility ID: 17-07-10-0216

Expiration Date: 07/08/00

FINAL ISSUE

This document constitutes issuance for: Industrial Brake and Friction  
40168 National Road West  
PO Box 358  
Morristown, OH 43759

of a permit to operate for:

P013 (I.B.F. Ohio 10-118 New England oven)  
New England Oven for Brake Pad Fabrication

### PART I General Terms & Conditions

#### 1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

#### 2. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

#### 3. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

**4. 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 three 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 the permit. Such records may be maintained in computerized form.

**5. Inspections and Information Requests**

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

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

**7. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permittee. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**8. 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.

**9. Permit Renewal**

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency. It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

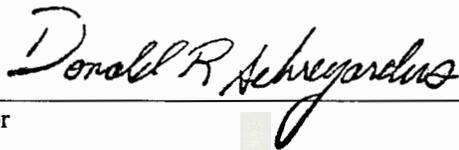
The following Ohio EPA District Office or local air agency has jurisdiction in the area in which the facility is located:

North Ohio Valley Air Authority  
814 Adams  
Steubenville, OH 43952  
(614) 282-3908

You will be contacted approximately six months prior to expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate DO or LAA.

**10. The permittee is also subject to the attached special terms and conditions.**

OHIO ENVIRONMENTAL PROTECTION AGENCY



Director

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Facility Name: Industrial Brake and Friction  
Facility ID: 17-07-10-0216  
Emissions Unit: I.B.F. Ohio 10-118 New England oven (P013)

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**Part II: Special Terms and Conditions**

**A. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
New England Oven	PTI # 17-1412	1.51 lbs VOC/hr, 6.61 TPY VOC.

**2. Additional Terms and Conditions**

None

**B. Operational Restrictions**

- 1. The permittee shall not employ any asbestos containing material in this emissions unit without prior written authorization from Ohio EPA.

**C. Monitoring and/or Record Keeping Requirements**

None

**D. Reporting Requirements**

None

**E. Testing Requirements (continued)**

- 1. Compliance with the volatile organic compounds (VOC) emission limits in section A.1 shall be determined by using the emission factor of 5.02 pound per ton of material (from the US EPA publication titled Compilation of Air Pollutant Emission Factors AP-42 table 5.2-1) and the amount of material produced in tons per hour. The annual VOC emissions are determined based upon the tons of material produced per year.

**F. Miscellaneous Requirements**

None



## PERMIT TO OPERATE AN EMISSIONS UNIT

Effective Date: 7/8/97

Facility ID: 17-07-10-0216

Expiration Date: 07/08/00

FINAL ISSUE

This document constitutes issuance for: Industrial Brake and Friction  
40168 National Road West  
PO Box 358  
Morristown, OH 43759

of a permit to operate for:

P014 (I.B.F. Ohio 10-128 Despatch Oven Co.)  
Despatch Oven for Brake Fabrication

### PART I General Terms & Conditions

#### 1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

#### 2. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

#### 3. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **4. 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 three 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 the permit. Such records may be maintained in computerized form.

#### **5. Inspections and Information Requests**

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

#### **6. 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 unit 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 this emissions unit(s) that is (are) served by such control system(s).

#### **7. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permittee. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

#### **8. 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.

#### **9. Permit Renewal**

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency. It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

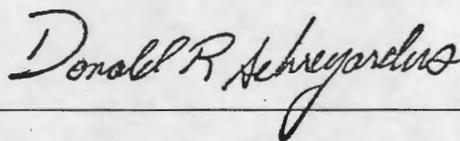
The following Ohio EPA District Office or local air agency has jurisdiction in the area in which the facility is located:

North Ohio Valley Air Authority  
814 Adams  
Steubenville, OH 43952  
(614) 282-3908

You will be contacted approximately six months prior to expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate DO or LAA.

**10. The permittee is also subject to the attached special terms and conditions.**

OHIO ENVIRONMENTAL PROTECTION AGENCY



Director

not  
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**Part II: Special Terms and Conditions**

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Despatch oven	PTI # 17-1412	1.51 lbs VOC/hr, 6.61 TPY VOC.

**2. Additional Terms and Conditions**

None

**B. Operational Restrictions**

1. The permittee shall not employ any asbestos containing material in this emissions unit without prior written authorization from Ohio EPA.

**C. Monitoring and/or Record Keeping Requirements**

None

**D. Reporting Requirements**

None

**E. Testing Requirements (continued)**

1. Compliance with the volatile organic compounds (VOC) emission limits in section A.1 shall be determined by using the emission factor of 5.02 pound per ton of material (from the US EPA publication titled Compilation of Air Pollutant Emission Factors AP-42 table 5.2-1) and the amount of material produced in tons per hour. The annual VOC emissions are determined based upon the tons of material produced per year.

**F. Miscellaneous Requirements**

None



## PERMIT TO OPERATE AN EMISSIONS UNIT

Effective Date: 7/8/97

Facility ID: 17-07-10-0216

Expiration Date: 07/08/00

FINAL ISSUE

This document constitutes issuance for: Industrial Brake and Friction  
40168 National Road West  
PO Box 358  
Morristown, OH 43759

of a permit to operate for:

P015 (I.B.F. Ohio 10-129 Bridgeport)  
Bridgeport Industrial Brake and Friction Pad Fabrication

### PART I General Terms & Conditions

#### 1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

#### 2. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

#### 3. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **4. 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 three 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 the permit. Such records may be maintained in computerized form.

#### **5. Inspections and Information Requests**

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

#### **6. 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 unit 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 this emissions unit(s) that is (are) served by such control system(s).

#### **7. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permittee. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

#### **8. 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.

#### **9. Permit Renewal**

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency. It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

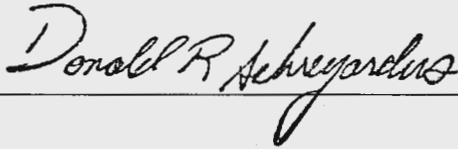
The following Ohio EPA District Office or local air agency has jurisdiction in the area in which the facility is located:

North Ohio Valley Air Authority  
814 Adams  
Steubenville, OH 43952  
(614) 282-3908

You will be contacted approximately six months prior to expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate DO or LAA.

**10. The permittee is also subject to the attached special terms and conditions.**

OHIO ENVIRONMENTAL PROTECTION AGENCY



Director

**Part II: Special Terms and Conditions**

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Bridgeport keyway cutter with fabric filter	PTI # 17-1412	0.0035 lb PM/hr, 0.0153 TPY PM.
	3745-17-07(A)	See A.2.2.a, b, and c below.
	3745-17-07(B)(1)	Same as PTI.
	3745-17-08(B)	Less stringent than PTI.
		Less stringent than PTI.

**2. Additional Terms and Conditions**

- 2.a There shall be no visible emissions from the capture hoods.  
 2.b All particulate (PM) emissions shall be vented to the fabric filter.  
 2.c Visible emissions from the exhaust stack of the fabric filter shall not exceed 20 percent opacity, except for one 6-minute period in any hour when up to 60 percent is permissible.

**B. Operational Restrictions**

1. The permittee shall not employ any asbestos-containing material in this emission unit without prior written authorization from Ohio EPA.

**C. Monitoring and/or Record Keeping Requirements**

None

**D. Reporting Requirements**

1. The permittee shall notify the Director if any visible emissions are observed from the capture hoods. The notification shall include the reason for the visible emissions and the measures taken to correct the problem. This notification shall be submitted within 30 days of the observation of visible emissions.

**E. Testing Requirements**

1. Compliance with the visible particulate emission limitation in section A.1 shall be determined in accordance with the test method and procedures in OAC 3745-17-03(B)(4).  
 2. Compliance with the PM emission limits in section A.1 of the terms and conditions are demonstrated by using the emission factor loading of 0.011 grain per cubic foot (from the Keysort Classification System of the Division of Industrial Hygiene, New York State Department of Labor, Table 9), a control efficiency of 91%, and a flow rate of 205 cubic feet per second. The annual PM emissions are determined based upon the total hours of operation each year.

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Facility Name: Industrial Brake and Friction  
Facility ID: 17-07-10-0216  
Emissions Unit: I.B.F. Ohio 10-129 Bridgeport (P015)

**F. Miscellaneous Requirements**

**None**



## PERMIT TO OPERATE AN EMISSIONS UNIT

Effective Date: 7/8/97

Facility ID: 17-07-10-0216

Expiration Date: 07/08/00

FINAL ISSUE

This document constitutes issuance for: Industrial Brake and Friction  
40168 National Road West  
PO Box 358  
Morristown, OH 43759

of a permit to operate for:

P016 (I.B.F. 10-130 Dewalt)  
Dewalt Saw

### PART I General Terms & Conditions

#### 1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

#### 2. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

#### 3. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **4. 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 three 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 the permit. Such records may be maintained in computerized form.

#### **5. Inspections and Information Requests**

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

#### **6. 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 unit 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 this emissions unit(s) that is (are) served by such control system(s).

#### **7. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permittee. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

#### **8. 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.

#### **9. Permit Renewal**

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency. It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

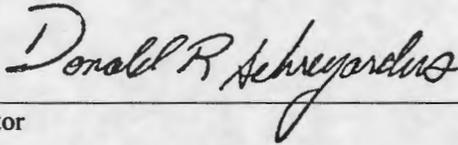
The following Ohio EPA District Office or local air agency has jurisdiction in the area in which the facility is located:

North Ohio Valley Air Authority  
814 Adams  
Steubenville, OH 43952  
(614) 282-3908

You will be contacted approximately six months prior to expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate DO or LAA.

**10. The permittee is also subject to the attached special terms and conditions.**

OHIO ENVIRONMENTAL PROTECTION AGENCY



Director

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Facility Name: Industrial Brake and Friction  
Facility ID: 17-07-10-0216  
Emissions Unit: I.B.F. 10-130 Dewalt (P016)

## Part II: Special Terms and Conditions

### A. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Dewalt table saw with fabric filter	PTI # 17-1412	0.0035 lb PM/hr, 0.0153 TPY PM.
	3745-17-07(A)	See A.2.2.a, b, and c below. Same as PTI.
	3745-17-07(B)(1)	Less stringent than PTI.
	3745-17-08(B)	Less stringent than PTI.

### 2. Additional Terms and Conditions

- There shall be no visible emissions from the capture hoods.
- All particulate (PM) emissions shall be vented to the fabric filter.
- Visible emissions from the exhaust stack of the fabric filter shall not exceed 20 percent opacity, except for one 6-minute period in any hour when up to 60 percent is permissible.

### B. Operational Restrictions

- The permittee shall not employ any asbestos-containing material in this emission unit without prior written authorization from Ohio EPA.

### C. Monitoring and/or Record Keeping Requirements

None

### D. Reporting Requirements

- The permittee shall notify the Director if any visible emissions are observed from the capture hoods. The notification shall include the reason for the visible emissions and the measures taken to correct the problem. This notification shall be submitted within 30 days of the observation of visible emissions.

### E. Testing Requirements

- Compliance with the visible particulate emission limitation in section A.1 shall be determined in accordance with the test method and procedures in OAC 3745-17-03(B)(4).
- Compliance with the PM emission limits in section A.1 of the terms and conditions are demonstrated by using the emission factor loading of 0.011 grain per cubic foot (from the Keysort Classification System of the Division of Industrial Hygiene, New York State Department of Labor, Table 9), a control efficiency of 91%, and a flow rate of 205 cubic feet per second. The annual PM emissions are determined based upon the total hours of operation each year.

### F. Miscellaneous Requirements

None



## PERMIT TO OPERATE AN EMISSIONS UNIT

Effective Date: 07/08/97

Facility ID: 17-07-10-0216

Expiration Date: 07/08/00

FINAL ISSUE

This document constitutes issuance for: Industrial Brake and Friction  
40168 National Road West  
PO Box 358  
Morristown, OH 43759

of a permit to operate for:

P017 (I.B.F. 10-132 I.B.F. Gardner grinder)  
36" Gardner Grinder

### PART I General Terms & Conditions

#### 1. Compliance Requirements

The above-described emissions unit is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.

#### 2. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

#### 3. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **4. 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 three 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 the permit. Such records may be maintained in computerized form.

#### **5. Inspections and Information Requests**

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

#### **6. 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 unit 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 this emissions unit(s) that is (are) served by such control system(s).

#### **7. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permittee. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

#### **8. 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.

#### **9. Permit Renewal**

Approximately six months prior to the expiration date of this permit, a notice regarding the renewal of this permit will be sent to the permittee's designated facility contact. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency. It is the permittee's responsibility to renew this permit even if no notice of its expiration is received.

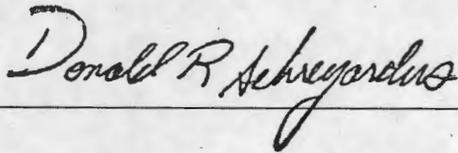
The following Ohio EPA District Office or local air agency has jurisdiction in the area in which the facility is located:

North Ohio Valley Air Authority  
814 Adams  
Steubenville, OH 43952  
(614) 282-3908

You will be contacted approximately six months prior to expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate DO or LAA.

**10. The permittee is also subject to the attached special terms and conditions.**

OHIO ENVIRONMENTAL PROTECTION AGENCY

A handwritten signature in cursive script, reading "Donald R. Schreyer", is written over a horizontal line.

Director

**Part II: Special Terms and Conditions**

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
Gardner 36 inch grinder with fabric filter	PTI # 17-1476	0.0035 lb PM/hr, 0.0153 TPY PM.
	3745-17-07(A)	See A.2.2.a., b., and c. below. Same as PTI.
	3745-17-07(B)(1)	Less stringent than PTI.
	3745-17-08(B)	Less stringent than PTI.

**2. Additional Terms and Conditions**

- 2.a There shall be no visible emissions from the capture hoods.
- 2.b All particulate (PM) emissions shall be vented to the fabric filter.
- 2.c Visible emissions from the exhaust stack of the fabric filter shall not exceed 20 percent opacity, except for one 6-minute period in any hour when up to 60 percent is permissible.

**B. Operational Restrictions**

1. The permittee shall not employ any asbestos-containing material in this emissions unit without prior written authorization from Ohio EPA.

**C. Monitoring and/or Record Keeping Requirements**

None

**D. Reporting Requirements**

1. The permittee shall notify the Director if any visible emissions are observed from the capture hoods. The notification shall include the reasons for the visible emissions and the measures taken to correct the problem. This notification shall be submitted within 30 days of the observation of visible emissions.

**E. Testing Requirements**

1. Compliance with the visible particulate emission limitation in section A.1 shall be determined in accordance with the test method and procedures in OAC 3745-17-03(B)(4).
2. Compliance with the PM emission limits in section A.1 of the terms and conditions are demonstrated by using the emission factor loading of 0.011 grain per cubic foot (from the Keysort Classification System of the Division of Industrial Hygiene, New York State Department of Labor, Table 9), a control efficiency of 91%, and a flow rate of 205 cubic feet per second. The annual PM emissions are determined based upon the hours of operation each year.

**F. Miscellaneous Requirements**

None