

1

Facility Name: **Quaker City Castings, Inc**

Application Number: **17-1620**

Date: **September 16, 1998**

### **GENERAL PERMIT CONDITIONS**

#### **TERMINATION OF PERMIT TO INSTALL**

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

#### **NOTICE OF INSPECTION**

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

#### **CONSTRUCTION OF NEW SOURCES**

The proposed source(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of Ohio Administrative Code (OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as

2

Facility Name: **Quaker City Castings, Inc**

Application Number: **17-1620**

Date: **September 16, 1998**

an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet applicable standards.

### **PERMIT TO INSTALL FEE**

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

### **PUBLIC DISCLOSURE**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC Rule 3745-49-03.

### **APPLICABILITY**

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

Facility Name: **Quaker City Castings, Inc**

Application Number: **17-1620**

Date: **September 16, 1998**

### **BEST AVAILABLE TECHNOLOGY**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

### **PERMIT TO OPERATE APPLICATION**

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

### **SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION**

This facility is permitted to operate each source described by this permit to install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws and regulations.

4

Facility Name: **Quaker City Castings, Inc**

Application Number: **17-1620**

Date: **September 16, 1998**

Facility Name: **Quaker City Castings, Inc**Application Number: **17-1620**Date: **September 16, 1998**

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

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

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	
P004	Pangborn 6 foot table shot blaster with fabric filter/baghouse dust collector (replacement for existing 6 ft. table shot blaster).	Baghouse outlet emissions rate shall not exceed 0.030 grains/dscf or there shall be no visible emissions, whichever is less stringent; baghouse dust collector shall operate at all times that shot blaster is operating.	3745-17-08 (B) (3) (b)	3745-31-05
			3745-17-07	

Facility Name: **Quaker City Castings, Inc**

Application Number: **17-1620**

Date: **September 16, 1998**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
				less stringent.
Permit Allowable Emissions and/or Control/Usage Requirements	Visible particulate emissions from this unit shall not exceed twenty percent opacity as a three-minute average.			
Baghouse outlet particulate emissions rate shall not exceed 0.030 grains per dry standard cubic foot of exhaust gas or there shall be no visible emissions, whichever is	Particulate emissions from this unit shall not exceed 1.28 pounds/hour and 5.6 TPY.			

Facility Name: **Quaker City Castings, Inc**

Application Number: **17-1620**

Date: **September 16, 1998**

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
Particulates	5.6

**MAINTENANCE OF EQUIPMENT**

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

**MALFUNCTION/ABATEMENT**

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Ohio EPA, Northeast District Office, 2110 E. Aurora Road, Twinsburg, OH 44087.**

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

**AIR POLLUTION NUISANCES PROHIBITED**

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

**ADDITIONAL SPECIAL TERMS AND CONDITIONS**

**Introduction**

The emissions units, a Pangborn 6 foot table shot blaster with a fabric filter/baghouse dust collector, is a replacement, in kind,

8

Facility Name: **Quaker City Castings, Inc**

Application Number: **17-1620**

Date: **September 16, 1998**

for an identical emissions unit which can no longer be adequately maintained. The only difference between the old and the new shot blaster, emissions unit designation P004, is that the new unit has a new, upgraded dust collector.

Facility Name: **Quaker City Castings, Inc**

Application Number: **17-1620**

Date: **September 16, 1998**

**A. Applicable Emissions Limitations**

1. Per OAC rule 3745-17-07, visible particulate emissions from this emissions unit shall not exceed twenty (20) percent opacity as a three-minute average.
2. Per OAC rule 3745-31-05, particulate emissions from this emissions unit shall not exceed 1.28 pounds/hour and 5.6 tons per year.
3. Per OAC rule 3745-17-08, see "Additional Terms and Conditions".

**B. Additional Terms and Conditions**

1. The mass emissions rate from the outlet of the baghouse dust collector shall not exceed 0.030 grain per dry standard cubic foot of exhaust gas or there shall be no visible emissions from the exhaust stack, whichever requirement is less stringent.

**C. Operational Restrictions**

1. The fabric filter/baghouse dust collector associated with this emissions unit shall be operated at all times that the shot blaster is in operation. This dust collection system shall also be maintained in good operating condition in accordance with manufacturers recommendations.

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

1. None.

**E. Reporting Requirements**

1. None.

**F. Testing Requirements**

1. Emission Limitation

Visible particulate emissions shall not exceed twenty (20) percent opacity as a three-minute average.

Facility Name: **Quaker City Castings, Inc**

Application Number: **17-1620**

Date: **September 16, 1998**

Applicable Compliance Method

Compliance shall be determined through visible emission observations in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. Emission Limitation

Mass emissions rate from baghouse exhaust outlet shall not exceed 0.030 grain per dry standard cubic foot of exhaust gas or there shall be no visible emissions from the exhaust stacks, whichever is less stringent.

Applicable Compliance Method

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the particulate emissions limits of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 5, and in OAC 3745-17-03(B)(7). Compliance with the visible emissions portion of the limitation shall be determined through visible emission observations in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

3. Emissions Limitation

Particulate emissions from this emissions unit shall not exceed 1.28 pounds/hour and 5.6 TPY.

Applicable Compliance Method

This limitation is based on the maximum flow rate of the control device (5000 scfm) times the allowable emissions rate of 0.030 grain/dscf particulate matter [per OAC rule 3745-17-08(B)(3)(b)] and the maximum operating schedule of 8760 hours per year. Compliance with this applicable emissions rate is demonstrated through a demonstration of the allowable emissions rate of 0.030 gr/dscf as required by Test Requirement 2.